

RFXpress® RFX100
Advanced RF/IF/IQ Waveform Creation and Editing Software
For the AWG5000 & AWG7000 Series Signal Generators
Programmer Manual



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Tektronix

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Getting Started

Introduction

This online programmer manual provides information on how to use commands for remotely controlling your instrument. With this information, you can write computer programs that will perform functions such as setting the setup and multi-carrier functions.

The programmer manual is divided into sections. Each section describes a closely related group of commands. For example, all the compile settings commands are in one section and generic signal setup options are grouped in another section.

The RFXpress programmatic interface works seamlessly with the AWG7000 and AWG5000 series instruments programmatic interface. It supports all the interfaces of the AWG7000 and AWG5000 series instruments. Using a single VISA or raw socket session, it is possible to communicate with both RFXpress and AWG.

For information on the Remote Control, GPIB Parameters, LAN Parameters, Connecting to the Instrument using GPIB, and Setting up GPIB Communication, refer to the *AWG5000 and AWG7000 Series Arbitrary Waveform Generators Programmer Manual*.

Documentation

In addition to this RFXpress Programmer Online Guide, the following documentation is included with this application:

- RFXpress Quick Start User Manual. The Quick Start User Manual has information about installing and operating your instrument.
- RFXpress User Online Help. The online help provides in-depth operation and user interface help.
- RFXpress RFX100 User Manual (PDF). The user manual provides in-depth operation and user interface help.
- RFXpress RFX100 Installation Manual (PDF). The install manual provided in-depth installation help.

Sample Program

The sample program illustrates methods you can use to control RFXpress.

Application Example: Radar

The following is an example on how to generate a LFM waveform with coherent carrier for pulse compression using PI commands.

1. Start RFXpress.
Command: `RFXPress`
2. Select the Radar application.
Command: `RFXPress:SELApp "Radar"`
3. Set the Carrier Magnitude (Peak) to 0dBm (default).
Command: `RFXPress:RADAR:CARRIER:MAGNitude 0`
4. Set the Carrier Frequency to 100 MHz (default).
Command: `RFXPress:RADAR:CARRIER:FREQUENCY 100E06`
5. Select Coherent Carrier (default).
Command: `RFXPress:RADAR:CARRIER:COHERent ON`
6. Set Pulse Shape to Rectangular.
Command: `RFXPress:RADAR:PULSE:PENVELOPE:SHAPE "Rectangular"`
7. Set Start Time to 0 ps (default).
Command: `RFXPress:RADAR:PULSE:PENVELOPE:TIME:STARTvalue 0`
8. Set Pulse Width to 10 μ s at 100%.
Commands: `RFXPress:RADAR:PULSE:PENVELOPE:WIDTH:VALUE 10E-06`
`RFXPress:RADAR:PULSE:PENVELOPE:WIDTH:POWER "Hundred"`
9. Set Off Time to 198 μ s.
Command:
`RFXPress:RADAR:PULSE:PENVELOPE:TIME:OFFTime 198E-06`
10. Set Amplitude Relative to Carrier to 0 dB (default).
Command: `RFXPress:RADAR:PULSE:PENVELOPE:RELAmplitude 0`
11. Set Offset from Carrier Frequency to 0 Hz (default).
Command: `RFXPress:RADAR:PULSE:PENVELOPE:CAROffset 0`
12. Set Repeat to 1 (default).

Command: RFXPress:RADAR:PULSE:PENVELOPE:REPEAT 1

13. Select Modulation to Linear Frequency Modulation.

Command: RFXPress:RADAR:PULSE:MODULATION "Linear Frequency Modulation"

14. Set Sweep Range to 10 MHz.

Command:
RFXPress:RADAR:PULSE:MODULATION:LFM:SWPRANGE 10E06

15. Set Frequency Sweep to Low to High.

Command: RFXPress:RADAR:PULSE:MODULATION:LFM:FRQSweep
"Low to High"

16. Set Signal Format to IF/RF.

Command: RFXPress:COMPILER:SIGFORMAT IFRF

17. Set Signal Format to IF/RF.

Command: RFXPress:COMPILER:SIGFORMAT IFRF

18. Select Automatic Oversampling Calculation option.

Command: RFXPress:COMPILER:AVERSAMPL ON

19. Compile.

Command: RFXPress:COMPILER

Application Example: Generic signal

The following is an example of how to generate a multi carrier RF signal using PI commands.

1. Start RFXpress.

Command: RFXPress

2. Select Generic signal application.

Command: RFXPress:SELAPP "Generic signal"

3. Select the signal type as IF/RF.

Command: RFXPress:COMPILER:SIGFORMAT IFRF

4. Select Multicarrier.

Command: RFXPress:GENPURPOSE:CARTYPE MULTI

5. Add two carriers.

Command: RFXPress:GENPURPOSE:ADDCARRIER 2

6. Set the Multicarrier state to ON.

- Command: `RFXPress:GENPurpose:MLTCarrier:STATE ON`
7. Set the Multicarrier option to Range.
Command: `RFXPress:GENPurpose:MLTCarrier:OPTion RANGE`
 8. Set the Base Frequency to 10 MHz.
Commands: `RFXPress:GENPurpose:MLTCarrier:BSEFreq 10E06`
 9. Set the Carrier Spacing to 10 MHz.
Command: `RFXPress:GENPurpose:MLTCarrier:CARSpacing 10E06`
 10. Set the Base Data of Carrier-1 to PRBS.
Command: `RFXPress:GENPurpose:CARRier1:BASEData PRBS`
 11. Set the PRBS Base Data of Carrier-1 to 15.
Command: `RFXPress:GENPurpose:CARRier1:BASEData:PRBS "15"`
 12. Set the Modulation for the Carrier-1 to QPSK.
Command: `RFXPress:GENPurpose:CARRier1:MODUlation "QPSK"`
 13. Repeat Steps 10 to 12 for the remaining carriers, setting the Base Data to PRBS 21 and PRBS 7 respectively. Set the modulation to QPSK.
 14. Set the Power Ramping for Carrier-1 to ON.
Command: `RFXPress:GENPurpose:CARRier1:PWRRamping:TURNOn ON`
 15. Set the Power Ramping Function to Linear.
Command:
`RFXPress:GENPurpose:CARRier1:PWRRamping:FUNCTion LINEar`
 16. Set the Power Ramping time to 100 ns.
Command:
`RFXPress:GENPurpose:CARRier1:PWRRamping:TIME 100E-09`
 17. Add a symbol with the symbol value 0 in the power ramping table.
Command:
`RFXPress:GENPurpose:CARRier1:PWRRamping:ADDSymbol 0`
 18. Select the added symbol with value 0.
Command:
`RFXPress:GENPurpose:CARRier1:PWRRamping:SELSymbol 0`
 19. Set the Level parameter to 0.
Command: `RFXPress:GENPurpose:CARRier1:PWRRamping:LEVEl 0`
 20. Repeat steps 17 to 19 two more times, adding the following parameters:
Symbol = 100 and Level = -60 dB Symbol = 200 and Level = 0 dB

- 21.** Set the Carrier Leakage (I/Q Impairments) to ON for Carrier-2.

Command:
RFXPress:GENPurpose:CARRIER2:IQImpairment:CARRLeakage:TURNOn ON
- 22.** Set the Carrier Leakage (I/Q Impairments) I Value to 5 for Carrier-2.

Command:
RFXPress:GENPurpose:CARRIER2:IQImpairment:CARRLeakage:IVALue 5
- 23.** Set the Carrier Leakage (I/Q Impairments) Q Value to 5 for Carrier-2.

Command:
RFXPress:GENPurpose:CARRIER2:IQImpairment:CARRLeakage:QVALue 5
- 24.** Set the Offset (Interference Addition) to ON for Carrier-3.

Command:
RFXPress:GENPurpose:CARRIER3:INTFaddition:OFFSet:TURNOn ON
- 25.** Set the Offset (Interference Addition) frequency to 10 MHz for Carrier-3.

Command:
RFXPress:GENPurpose:CARRIER1:INTFaddition:OFFSet:FREQoffset 10E06
- 26.** Set the Automatic Waveform Length Calculation option to OFF.

Command: RFXPress:COMPile:AWFLength OFF
- 27.** Set the Waveform Length to 500 K.

Command: RFXPress:COMPile:WLENGTH 500000
- 28.** Set the Waveform Length Type to Samples.

Command: RFXPress:COMPile:WLType SAMPLES
- 29.** Set the Automatic Oversampling Calculation option to OFF.

Command: RFXPress:COMPile:AOVERsamp1 OFF

30. Set the Oversampling to 6.00.

Command: RFXPress:COMPIle:OVERsamp1 6.00

31. Compile.

Command: RFXPress:COMPIle

Syntax and Commands

Command Syntax

For information on the Syntax Overview, Command and Query Structure, Clearing the Instrument, Command Entry, Parameter Types, SCPI Commands and Queries, refer to the *AWG5000 and AWG7000 Series Arbitrary Waveform Generators Programmer Manual*.

Command Groups

Launch Commands

Use the following command to launch RFXpress.

Table 2-1: Launch commands

Command	Description
RFXPress	Launches the RFXpress application.
RFXPress:SELApp	Sets or returns the currently selected application.

File Commands

Use the following commands to do the framework related operations.

Table 2-2: File commands

Command	Description
RFXPress:RFSFile:LOAD	Loads the specified .rfs file.
RFXPress:RFSFile:SAVE	Saves the currently selected plug-in information to an .rfs file. The plug-in to be saved must first be selected.
RFXPress:RSTDefault	Restores the default setup for the currently selected plug-in. The plug-in to be reset must first be selected.

Table 2-3: Data file commands

Command	Description
RFXPress:RFDFile:LOAD	Loads the waveform contained in the specified .rfd file in to the waveform list.
RFXPress:RFDFile:SAVE	Saves the currently selected waveform in the waveform list to a .rfd file.
RFXPress:RFDFile:SELEct	Selects the specified waveform in the waveform list.

Table 2-4: Import from file commands

Command	Description
RFXPress:IMPORtfile:BASEband	Sets or returns the import file baseband status.
RFXPress:IMPORtfile:DATAtype	Sets or returns the import file data type selection.
RFXPress:IMPORtfile:FORMat	Sets or returns the import file format selection for .txt and .csv files.
RFXPress:IMPORtfile:IMPORt	Imports the specified file.
RFXPress:IMPORtfile:OVERwrite	Sets or returns the import file overwrite status.
RFXPress:IMPORtfile:TYPE	Set or returns the import file type filter.

Table 2-5: Waveform list commands

Command	Description
RFXPress:WLIST:CALibration:APPLY	Applies calibration on the selected files in the waveform list. Select the waveform to calibrate using the RFXPress:WLIST:SELWaveform command.
RFXPress:WLIST:CLRSelect	Clears the selected waveform from the waveform list.
RFXPress:WLIST:SELWaveform	Selects the waveforms from the waveform list. The input waveform name should be present in the waveform list.

Compile Settings Commands

Use the following commands to set the compile settings parameters.

Table 2-6: Compile settings commands

Command	Description
RFXPress:COMPile	Compiles to generate waveforms.
RFXPress:COMPile:CORRection:CHFour	Sets or returns the option for applying correction on channel 4. The correction can be applied only when the selected plug-in is Generic Signal.
RFXPress:COMPile:CORRection:CHONE	Sets or returns the option for applying correction on channel 1. The correction can be applied only when the selected plug-in is Generic Signal.
RFXPress:COMPile:CORRection:CHTHree	Sets or returns the option for applying correction on channel 3. The correction can be applied only when the selected plug-in is Generic Signal.
RFXPress:COMPile:CORRection:CHTwo	Sets or returns the option for applying correction on channel 2. The correction can be applied only when the selected plug-in is Generic Signal.
RFXPress:COMPile:CORRection:FNAME	Sets or returns the correction file name. The correction file name can be set only when the selected plug-in is Generic Signal.
RFXPress:COMPile:ADJWrap	Enables and disables wrap-around.
RFXPress:COMPile:AOverSampl	Sets or returns the auto oversampling calculation option.
RFXPress:COMPile:AWFLength	Sets or returns the auto waveform length calculation option.
RFXPress:COMPile:CPASend	Sets the compile and send option.
RFXPress:COMPile:ICHannel	Sets or returns the I channel (the number of channels depends on the instrument).
RFXPress:COMPile:IINVert	Sets or returns the I Invert status.
RFXPress:COMPile:IQNormfact	Sets or returns the normalization/division factor in the compile settings for IQ.
RFXPress:COMPile:IWFName	Sets or returns the I waveform name in the compile settings when the signal format is IF/RF or IQ.
RFXPress:COMPile:NORMmode	Sets or returns the normalization mode in compile settings.

Table 2-6: Compile settings commands (cont.)

Command	Description
RFXPress:COMPile:OVERsaml	Sets or returns the oversampling.
RFXPress:COMPile:QCHAnnel	Sets or returns the Q channel (the number of channels depends on the instrument).
RFXPress:COMPile:QINVert	Sets or returns Q Invert.
RFXPress:COMPile:QWFMname	Sets or returns the Q waveform name in the compile settings when the signal format is IF/RF or IQ.
RFXPress:COMPile:RADAr:ADJUst	Sets or returns the adjust pulse time or frequency parameters. These values must be adjusted to meet the AWG specifications. This command is applicable only when the selected plug-in is Radar signal.
RFXPress:COMPile:RFCHannel	Sets or returns the RF channel.
RFXPress:COMPile:RFNOrmfact	Sets or returns the normalization/division factor in the compile settings for IF/RF signals.
RFXPress:COMPile:RFWFmname	Sets or returns the IF/RF waveform name in the compile settings when the signal format is IF/RF.
RFXPress:COMPile:SIGFormat	Sets or returns the signal format in RFXpress.
RFXPress:COMPile:WLENgth	Sets or returns the waveform length.
RFXPress:COMPile:WLTyPe	Sets or returns the waveform length type.

Generic Signal: Setup Commands

Use the following commands to set the setup parameters for generic signals.

Table 2-7: Generic signal setup commands

Command	Description
RFXPress:GENPurpose:CARRier<n>:ALPha	Sets or returns the Alpha/(B*T) for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MODUlation: PModulation:MODFreq	Sets or returns the modulating frequency for PM for carrier >n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to PM.
RFXPress:GENPurpose:CARRier<n>:AMPLitude	Sets or returns the amplitude of carrier <n>, where <n> is the carrier number.
RFXPress:GENPurpose:CARRier<n>:BBOffset	Sets or returns the baseband offset for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:BSEData	Sets or returns the base data type of carrier <n>.
RFXPress:GENPurpose:CARRier<n>:BSEData:FILE	Sets or returns the base data type of carrier <n>.
RFXPress:GENPurpose:CARRier<n>:BSEData:PATtern	Sets or returns the user-defined file for File Base data type of carrier <n>.
RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS	Sets or returns the PRBS type of carrier <n>.
RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS: USRDefined:IPOLynomial	Sets or returns the user-defined PRBS initial polynomial expression of carrier <n>.

Table 2-7: Generic signal setup commands (cont.)

Command	Description
RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS:USRDefined:POLYnomial	Sets or returns the user-defined PRBS polynomial expression of carrier <n>.
RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS:USRDefined:SREGister	Sets or returns the user-defined PRBS Shift Register pattern of carrier <n>.
RFXPress:GENPurpose:CARRier<n>:CHBRipple	Sets or returns the Chebyshev ripple for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:CODing	Sets or returns the coding for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:CONLen	Sets or returns the convolution length for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:FILTer	Sets or returns the filter for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:FREQuency	Sets the carrier frequency of carrier <n>.
RFXPress:GENPurpose:CARRier<n>:FSAMple:DATOrg	Sets or returns the file sample data organization for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:FSAMple:FNAME	Sets or returns the File Samples file name for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:FSAMple:FORMat	Sets or returns the file sample format for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:FSAMple:MODE	Sets or returns the file sample mode for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:FSAMple:SAMRate	Sets or returns the file sampling rate for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:FSYMble:DATOrg	Sets or returns the file symbol data organization for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:FSYMble:FNAME	Sets or returns the file symbol file name for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:FSYMble:FORMat	Sets or returns the file symbol format for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:KAISer	Sets or returns the Kaiser parameter for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MODUlation	Sets the modulation of a carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MODUlation:AMODulation:MODFreq	Sets or returns the modulating frequency for AM for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MODUlation:AMODulation:MODIndex	Sets or returns the AM modulation index for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MODUlation:ASKEying:MODIndex	Sets or returns the ASK modulation index for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MODUlation:FMODulation:FRQDeviation	Sets or returns the frequency deviation for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MODUlation:FMODulation:MODFreq	Sets or returns the modulating frequency for FM for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MODUlation:FSKEying:PKDEviation	Sets or returns the FSK peak deviation for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MODUlation:NDPSK:NVALue	Sets or returns the 'n' value for NDPSK modulation for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MODUlation:NDPSK:PHROtation	Sets or returns the phase rotation for NDPSK modulation for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MODUlation:PMODulation:PHEDeviation	Sets or returns the phase deviation for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:STATe	Sets or returns the state of carrier <n>.
RFXPress:GENPurpose:CARRier<n>:SYMBrate	Sets or returns the symbol rate for carrier <n>.

Table 2-7: Generic signal setup commands (cont.)

Command	Description
RFXPress:GENPurpose:CARRier<n>:WINDow	Sets or returns the window for carrier <n>.
RFXPress:GENPurpose:CARType	Sets or returns the carrier mode.
RFXPress:GENPurpose:DELCarrier	Deletes the specified carrier from the carrier table.

Generic Signal: Multi-Carrier Settings Commands

Use the following commands to set parameters for multi-carrier generic signals.

Table 2-8: Multi-carrier commands

Command	Description
RFXPress:GENPurpose:ADDCarrier	Adds 'n' carriers in the carrier table.
RFXPress:GENPurpose:CARRier<n>:MULTipath:ADDPATH	Adds a path with the specified delay in the multipath table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when multipath for the carrier is turned on.
RFXPress:GENPurpose:CARRier<n>:MULTipath:AMPLitude	Sets or returns the amplitude value for the currently selected path in the multipath table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when multipath for the carrier is turned on.
RFXPress:GENPurpose:CARRier<n>:MULTipath:DELAy	Sets or returns the delay value for the currently selected path in the multipath table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when multipath for the carrier is turned on. The corresponding symbol should be selected in the multipath table before executing this command. You cannot change the delay for the default path.
RFXPress:GENPurpose:CARRier<n>:MULTipath:DELPAth	Deletes a path with the specified delay in the multipath table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when multipath for the carrier is turned on.
RFXPress:GENPurpose:CARRier<n>:MULTipath:PHASe	Sets or returns the phase value for the currently selected path in the multipath table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when multipath for the carrier is turned on. The corresponding symbol should be selected in the multipath table before executing this command.
RFXPress:GENPurpose:CARRier<n>:MULTipath:SELPAth	Sets or returns the currently selected path in multipath table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when multipath for the carrier is turned on.
RFXPress:GENPurpose:CARRier<n>:MULTipath:TURNon	Sets or returns the "Turn On" status of multipath settings for carrier <n>, where <n> is the carrier number.
RFXPress:GENPurpose:ANCHor	Sets or returns the carrier as anchor carrier in the multi-carrier table.
RFXPress:GENPurpose:DELAllcarr	Deletes all carriers from the carrier table.
RFXPress:GENPurpose:MLTCarrier:BSEFreq	Sets or returns the multi-carrier base frequency.

Table 2-8: Multi-carrier commands (cont.)

Command	Description
RFXPress:GENPurpose:MLTCarrier:BWIDth	Sets or returns the multi-carrier bandwidth.
RFXPress:GENPurpose:MLTCarrier:CARSpacing	Sets or returns the multi-carrier carrier spacing.
RFXPress:GENPurpose:MLTCarrier:CENFrequency	Sets or returns the multi-carrier center frequency.
RFXPress:GENPurpose:MLTCarrier:INIOffset	Sets or returns the multi-carrier initial offset.
RFXPress:GENPurpose:MLTCarrier:OPTion	Sets or returns the multi-carrier option.
RFXPress:GENPurpose:MLTCarrier:PHSShift	Sets or returns the multi-carrier phase shift.
RFXPress:GENPurpose:MLTCarrier:RNDPhase	Sets or returns the multi-carrier phase as random or not.

Generic Signal: Multipath Commands

Use the following commands to set multipath parameters for generic signals.

Table 2-9: Multipath commands

Command	Description
RFXPress:GENPurpose:CARRier<n>:MULTipath:ADDPATH	Adds a path with the specified delay in the multipath table for carrier <n>, where <n> is the carrier number.
RFXPress:GENPurpose:CARRier<n>:MULTipath:AMPLitude	Sets or returns the amplitude value for the currently selected path in the multipath table for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MULTipath:DELAy	Sets or returns the delay value for the currently selected path in the multipath table for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MULTipath:DELPAth	Deletes a path with the specified delay in the multipath table for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MULTipath:PHASe	Sets or returns the phase value for the currently selected path in the multipath table for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MULTipath:SELPAth	Sets or returns the currently selected path in multipath table for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MULTipath:TURNon	Sets or returns the "Turn On" status of multipath settings for carrier <n>.

Generic Signal: Hopping Commands

Use the following commands to set hopping parameters for generic signals.

Table 2-10: Hopping impairment commands

Command	Description
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:ADD	Adds the hop frequency in the hopping table/list for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:CHSPacing	Sets or returns the channel spacing in hopping for carrier <n>, where <n> is the carrier number.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:DELEte	Deletes the hop/frequency entries in the hopping table/list for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:FREQuency	Sets or returns the frequency in the hopping table for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:FRQMode	Sets or returns the frequency mode in hopping for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:FRQOffset	Sets or returns the frequency offset in hopping for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime	Sets or returns the "time in hop" in the hopping table for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime:HOPPPersecond	Sets or returns the hops per second for carrier <n>.

Table 2-10: Hopping impairment commands (cont.)

Command	Description
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime:METHod	Sets or returns the hopping time method for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime:SYMPerhop	Sets or returns the symbols per hop for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:MAXFreq	Sets or returns the hop maximum frequency for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:MINFreq	Sets or returns the hop minimum frequency for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PATTern	Sets or returns the hop frequency pattern for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PRBS	Sets or returns the PRBS type in hopping for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PRBS:USRDefined:POLYnomial	Sets or returns the polynomial for user-defined PRBS in hopping for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PRBS:USRDefined:SREGister	Sets or returns the shift register value for user-defined PRBS in hopping for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:RELAmpitude	Sets or returns the relative amplitude in the hopping table for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:SELFreqidx	Sets or returns the frequency index selection in hopping for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:SELHopidx	Sets or returns the hop index selection in hopping for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:STSYmbol	Sets or returns the start symbol in the hopping table for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNon	Sets or returns the random hopping "Turn On" status for carrier <n>.

Generic Signal: Power Ramping Commands

Use the following commands to set power ramping commands.

Table 2-11: Power ramping commands

Command	Description
RFXPress:GENPurpose:CARRier<n>:PWRRamping:ADDSymbol	Adds a symbol in the power ramping table for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:PWRRamping:DELSymbol	Deletes a symbol in the power ramping table for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:PWRRamping:FUNCTION	Sets or returns the power ramp function for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:PWRRamping:LEVEL	Sets or returns the level for the currently selected symbol in the power ramp table for carrier <n>.

Table 2-11: Power ramping commands (cont.)

Command	Description
RFXPress:GENPurpose:CARRier<n>:PWRRamping:PRDEExtend	Sets or returns the periodic extend in power ramp for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:PWRRamping:SELSymbol	Sets or returns the currently selected symbol in power ramping table for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:PWRRamping:SYMBOL	Sets or returns the symbol value for the currently selected symbol in the power ramp table for carrier <n>
RFXPress:GENPurpose:CARRier<n>:PWRRamping:TIME	Sets or returns the time in power ramping for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:PWRRamping:TURNOn	Sets or returns the "Turn On" status of power ramping settings for carrier <n>.

Generic Signal: I/Q Impairment Commands

Use the following commands to set I/Q impairment parameters for generic signals.

Table 2-12: I/Q impairment commands

Command	Description
RFXPress:GENPurpose:CARRier<n>:IQImpairment:CARRleakage:IVALue	Sets or returns the I value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQImpairment:CARRleakage:QVALue	Sets or returns the Q value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQImpairment:CARRleakage:TURNOn	Sets or returns the "Turn On" status of Carrier Leakage for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQImpairment:HWSKew:CH1Val	Sets or returns the channel 1 value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQImpairment:HWSKew:CH2Val	Sets or returns the channel 2 value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQImpairment:HWSKew:CH3Val	Sets or returns the channel 3 value for carrier <n>
RFXPress:GENPurpose:CARRier<n>:IQImpairment:HWSKew:CH4Val	Sets or returns the channel 4 value for carrier <n>
RFXPress:GENPurpose:CARRier<n>:IQImpairment:HWSKew:TURNOn	Sets or returns the "Turn On" status of hardware skew for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQImpairment:IQIMbalance:IQIMbalance	Sets or returns the IQ imbalance value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQImpairment:IQIMbalance:TURNOn	Sets or returns the "Turn On" status of IQ Imbalance for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQImpairment:IQSWap:TURNOn	Sets or returns the "Turn On" status of IQ Swap for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQImpairment:NONLindist:AMA2k	Sets or returns the AMAM2k value for carrier <n>.

Table 2-12: I/Q impairment commands (cont.)

Command	Description
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:AMA3k	Sets or returns the AMAM3k value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:AMP2k	Sets or returns the AMPM2k value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:AMP3k	Sets or returns the AMPM3k value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:TURNon	Sets or returns the "Turn On" status of nonlinear distortion for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:QUADError:DEGRees	Sets or returns the quadrature error value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:QUADError:TURNon	Sets or returns the "Turn On" status of quadrature error for carrier <n>.

Generic Signal: Distortion Addition Commands

Use the following commands to set distortion addition parameters for generic signals.

Table 2-13: Distortion addition commands

Command	Description
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMA3k	Sets or returns the AMAM3k value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMA5k	Sets or returns the AMAM5k value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMP3k	Sets or returns the AMPM3k value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMP5k	Sets or returns the AMPM5k value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMPLtype	Sets or returns the amplifier type settings for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:LIMItlevel	Sets or returns the amplifier type limiting level for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:OPERatingpt	Sets or returns the amplifier type operating point for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:TURNon	Sets or returns the "Turn On" status of amplifier distortion settings for carrier <n>.

Generic Signal: Interference Addition Commands

Use the following commands to set interference addition parameters for generic signals.

Table 2-14: Interference addition commands

Command	Description
RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise: BANDwidth	Sets or returns the additive noise bandwidth value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd: RFWAveform	Sets or returns the RF waveform file name (signal addition via software) for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise: EBNValue	Sets or returns the additive noise Eb/No value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise: INPUtselect	Sets or returns the of additive noise input mode for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise: SNRValue	Sets or returns the additive noise SNR value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise: TURNon	Sets or returns the “Turn On” status of additive noise for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:OFFSet: FREQoffset	Sets or returns the frequency offset value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:OFFSet: TURNon	Sets or returns the “Turn On” status of offset for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd: SIGFormat	Sets or returns the signal format selected for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd: IWAVEform	Sets or returns the I waveform name (signal addition via software) for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd: QWAVEform	Sets or returns the Q waveform name (signal addition via software) for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd: VIAIntf	Sets or returns the interference method selection for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd: TURNon	Sets or returns the “Turn On” status of signal addition for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SINUintf: CARRoffset	Sets or returns the sinusoidal interference carrier offset value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SINUintf: CIVAlue	Sets or returns the sinusoidal interference C/I value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SINUintf: TURNon	Sets or returns the “Turn On” status of sinusoidal interference for carrier <n>.

Generic Signal: Sub-Carrier Modulation Commands

Use the following commands to set sub-carrier modulation parameters for generic signals.

Table 2-15: Sub-carrier modulation commands

Command	Description
<code>RFXPress:GENPurpose:SUBCarrmod:AMODulation:MODIndex</code>	Sets or returns the AM modulation index for sub-carrier modulation.
<code>RFXPress:GENPurpose:SUBCarrmod:CARRfreq</code>	Sets or returns the carrier frequency in sub-carrier modulation.
<code>RFXPress:GENPurpose:SUBCarrmod:FMODulation:FRQDeviation</code>	Sets or returns the frequency deviation in sub-carrier modulation.
<code>RFXPress:GENPurpose:SUBCarrmod:MODUlation</code>	Sets or returns the modulation type in sub-carrier modulation.
<code>RFXPress:GENPurpose:SUBCarrmod:PMODulation:PHEDeviation</code>	Sets or returns the phase deviation in sub-carrier modulation.
<code>RFXPress:GENPurpose:SUBCarrmod:TURNon</code>	Sets or returns the sub-carrier modulation "Turn On" status.

Generic Signal: S-Parameter Commands

Use the following commands to set S-Parameter options for generic signals.

Table 2-16: S-Parameter commands

Command	Description
<code>RFXPress:GENPurpose:SPARAmeter:FBWMode</code>	Sets or returns the filter bandwidth mode in S-parameter.
<code>RFXPress:GENPurpose:SPARAmeter:FILE<n>:ENABLE</code>	Sets or returns the status of the S-parameter file <n>.
<code>RFXPress:GENPurpose:SPARAmeter:FILE<n>:NAME</code>	Sets or returns the file name of the S-parameter file <n>.
<code>RFXPress:GENPurpose:SPARAmeter:FILTer:BWIDth</code>	Sets or returns the filter bandwidth in S-parameter.
<code>RFXPress:GENPurpose:SPARAmeter:FOURport:DATType</code>	Sets or returns the four-port data type in S-parameter.
<code>RFXPress:GENPurpose:SPARAmeter:FOURport:DIFFential:LAYout</code>	Sets or returns the differential layout in S-parameter.
<code>RFXPress:GENPurpose:SPARAmeter:FOURport:SNGEnded:RXMinus</code>	Sets or returns the single ended Rx- selection in S-parameter.
<code>RFXPress:GENPurpose:SPARAmeter:FOURport:SNGEnded:RXPLus</code>	Sets or returns the single ended Rx+ selection in S-parameter.
<code>RFXPress:GENPurpose:SPARAmeter:FOURport:SNGEnded:TXMinus</code>	Sets or returns the single ended Tx- selection in S-parameter.
<code>RFXPress:GENPurpose:SPARAmeter:FOURport:SNGEnded:TXPLus</code>	Sets or returns the single ended Tx+ selection in S-parameter.
<code>RFXPress:GENPurpose:SPARAmeter:INVErt</code>	Sets or returns the Apply Inversion parameter in S-parameter.
<code>RFXPress:GENPurpose:SPARAmeter:MODE</code>	Sets or returns the S-parameter mode.

Instrument Control

Use the following command for instrument control.

Table 2-17: Instrument control commands

Command	Description
RFXPress:INSTctrl:AWGenerator:CHANnel<n>:WAVName	Sets the waveform to a specified AWG channel.

Radar: Pulse Train Settings

Use the following commands for pulse train settings.

Table 2-18: Pulse train settings commands

Command	Description
RFXPress:RADAR:PULTrain:ADDElement	Adds a pulse or dead-time to the pulse train table. To add a pulse, use "PULSE". To add a dead-time, use "DEAD TIME".
RFXPress:RADAR:PULTrain:INSElement	Inserts a new pulse or dead-time in the pulse train table.
RFXPress:RADAR:PULTrain:SELEct	Selects the pulse or dead-time at the specified index. The query form returns the currently selected index in the pulse train table.
RFXPress:RADAR:PULTrain:DELEte	Deletes the currently selected pulse or dead-time in the pulse train table. Select a pulse or dead-time in the pulse train table before using this command.
RFXPress:RADAR:PULTrain:TYPE?	Returns the type of the currently selected pulse train element from the pulse train table. Select a valid pulse or dead-time in the pulse train table before using this command.
RFXPress:RADAR:PULTrain:ANCHor	Sets or returns the pulse as anchor pulse in pulse train table. The specified index must contain a pulse group in the pulse train table.
RFXPress:RADAR:PULTrain:COUNt?	Returns the total count of all the pulse train elements present in the pulse train table. The returned value is the aggregate of all pulse and dead-time elements.

Radar: Add Pulse Group

Use the following commands for adding pulse groups.

Table 2-19: Radar add pulse commands

Command	Description
RFXPress:RADAR:PULTrain:SELPulse:ADDItion:TURNon	Sets or returns the status of the currently selected pulse group as to whether it will be added in time. Select a pulse group in the pulse train table before using this command.
RFXPress:RADAR:PULTrain:SELPulse:ADDItion:SELAll	Sets or returns the status of the pulse groups whether all the pulse groups are added together in time.

Radar: Pulse Envelope Group Settings

Use the following commands for pulse envelope settings.

Table 2-20: Radar pulse envelope commands

Command	Description
<code>RFXPress:RADAR:PULSe:PENvelope:SHAPE</code>	Sets or returns the pulse envelope shape of the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
<code>RFXPress:RADAR:PULSe:PENvelope:CUSTomfile</code>	Sets or returns the custom pulse envelope shape file for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. This command is valid only if the pulse shape is set to Custom.
<code>RFXPress:RADAR:PULSe:PENvelope:TIME:STARTvalue</code>	Sets or returns the pulse envelope start time value for the currently selected pulse group.
<code>RFXPress:RADAR:PULSe:PENvelope:TIME:RISE:VALUe</code>	Sets or returns the pulse envelope rise time value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
<code>RFXPress:RADAR:PULSe:PENvelope:TIME:RISE:PERCentage</code>	Sets or returns the pulse envelope rise time percentage for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
<code>RFXPress:RADAR:PULSe:PENvelope:TIME:FALL:VALUe</code>	Sets or returns the pulse envelope fall time value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
<code>RFXPress:RADAR:PULSe:PENvelope:TIME:FALL:PERCentage</code>	Sets or returns the pulse envelope fall time percentage for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
<code>RFXPress:RADAR:PULSe:PENvelope:TIME:OFFTime</code>	Sets or returns the pulse envelope off time value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
<code>RFXPress:RADAR:PULSe:PENvelope:WIDTh:VALUe</code>	Sets or returns the pulse envelope width value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
<code>RFXPress:RADAR:PULSe:PENvelope:WIDTh:POWER</code>	Sets or returns the pulse envelope width power for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
<code>RFXPress:RADAR:PULSe:PENvelope:SAMPlerate</code>	Sets or returns the pulse envelope sampling rate value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
<code>RFXPress:RADAR:PULSe:PENvelope:CAROffset</code>	Sets or returns the pulse envelope carrier offset rate value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. This command is applicable only if the signal format selected is IF/RF.
<code>RFXPress:RADAR:PULSe:PENvelope:BBOffset</code>	Sets or returns the pulse envelope baseband offset rate value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. This command is applicable only if the signal format selected is IQ.

Command	Description
RFXPress:RADAr:PULSe:PENVELOpe:RELAmpLitude	Sets or returns the pulse envelope relative amplitude value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
RFXPress:RADAr:PULSe:PENVELOpe:REPEat	Sets and the pulse envelope repeat value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

Radar: Carrier Settings

Use the following commands for carrier settings.

Table 2-21: Radar command

Command	Description
RFXPress:RADAr:CARRier:MAGNitide	Sets or returns the carrier magnitude. Set the signal format to IF/RF before executing this command.
RFXPress:RADAr:CARRier:AMPLitude	Sets or returns the carrier amplitude. Set the signal format to IQ before executing this command.
RFXPress:RADAr:CARRier:FREQuency	Sets or returns the carrier frequency. Set the signal format to IF/RF before executing this command.
RFXPress:RADAr:CARRier:COHErent	Sets or returns coherent carrier turn on status. Set the signal format to IF/RF before executing this command.

Radar: Antenna Scanning

Use the following commands for antenna scanning.

Table 2-22: Radar antenna scanning commands

Command	Description
RFXPress:RADAr:PULSe:ANTEнна:BEAM:FILE	Sets or returns the custom antenna beam type file for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on antenna scanning and set the beam type to "User Defined" before using this command.
RFXPress:RADAr:PULSe:ANTEнна:TURNOn	Sets or returns the "Turn On" status of the antenna scanning for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
RFXPress:RADAr:PULSe:ANTEнна:BEAM:TYPE	Sets or returns the type of the antenna beam for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on antenna scanning before using this command.

Table 2-22: Radar antenna scanning commands (cont.)

Command	Description
RFXPress:RADAR:PULSe:ANTEenna:BEAM:WIDTH	Sets or returns the width of the antenna beam for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on antenna scanning and set the beam type to either “Sinc” or “Gaussian” before using this command.
RFXPress:RADAR:PULSe:ANTEenna:MRValue ¹	Sets or returns the MRA value of the antenna for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on antenna scanning and set the beam type to either “Sinc” or “Gaussian” before using this command.
RFXPress:RADAR:PULSe:ANTEenna:SCANrate	Sets or returns the scan rate of the antenna for the currently selected pulse group. Select a pulse group in the pulse train table and turn on antenna scanning before using this command.
RFXPress:RADAR:PULSe:ANTEenna:TBEAring	Sets or returns the Target Bearing or MRA value of the antenna for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on antenna scanning and set the beam type to either “Sinc” or “Gaussian” before using this command.

Radar: Multipath

Use the following commands for multipath settings.

Table 2-23: Radar multipath commands

Command	Description
RFXPress:RADAR:PULSe:MULTipath:TURNOn	Sets or returns the “Turn On” status of the multipath for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
RFXPress:RADAR:PULSe:MULTipath:ADDPath	Adds a new path to the multipath table for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on multipath before using this command.
RFXPress:RADAR:PULSe:MULTipath:SELPath	Selects the path with the specified delay in the multipath table for the currently selected pulse. returns the delay of the selected path in the multipath table for the currently selected pulse. Select a pulse group in the pulse train table and turn on multipath before using this command.
RFXPress:RADAR:PULSe:MULTipath:DELAy	Sets or returns the delay of the selected path in the multipath table for the currently selected pulse group. Select a pulse group in the pulse train table and turn on multipath before using this command. Select a path other than the default before setting the delay value.

Table 2-23: Radar multipath commands (cont.)

Command	Description
RFXPress:RADAr:PULSe:MULTipath:AMPLitude	Sets or returns the level of the selected path in the multipath table for the currently selected pulse group. Select a pulse group in the pulse train table and turn on multipath before using this command.
RFXPress:RADAr:PULSe:MULTipath:PHASe	Sets or returns the phase of the selected path in the multipath table for the currently selected pulse group. Select a pulse group in the pulse train table and turn on multipath before using this command.
RFXPress:RADAr:PULSe:MULTipath:DELPath	Deletes the selected path in the multipath table for the currently selected pulse group. Select a pulse group in the pulse train table and turn on multipath before using this command.

Radar: I/Q Impairments

Use the following commands for I/Q impairments settings.

Table 2-24: Radar I/Q impairments commands

Command	Description
RFXPress:RADAr:IQImpairment:IQSWap:TURNOn	Sets or returns the “Turn On” status of IQ Swap.
RFXPress:RADAr:IQImpairment:IQIMbalance:TURNOn	Sets or returns the “Turn On” status of IQ Imbalance.
RFXPress:RADAr:IQImpairment:IQIMbalance:IQIMbalance	Sets or returns the IQ imbalance value.
RFXPress:RADAr:IQImpairment:QUADerror:TURNOn	Sets or returns the “Turn On” status of quadrature error.
RFXPress:RADAr:IQImpairment:QUADerror:DEGRees	Sets or returns the quadrature error degrees value.
RFXPress:RADAr:IQImpairment:CARRleakage:TURNOn	Sets or returns the “Turn On” status of carrier leakage.
RFXPress:RADAr:IQImpairment:CARRleakage:IVALue	Sets or returns the carrier leakage I value.
RFXPress:RADAr:IQImpairment:CARRleakage:QVALue	Sets or returns the carrier leakage Q value.
RFXPress:RADAr:IQImpairment:HWSKew:TURNOn	Sets or returns the “Turn On” status of hardware skew.
RFXPress:RADAr:IQImpairment:HWSKew:CH1Val	Sets or returns the channel 1 hardware skew value.
RFXPress:RADAr:IQImpairment:HWSKew:CH2Val	Sets or returns the channel 2 hardware skew value.
RFXPress:RADAr:IQImpairment:HWSKew:CH3Val	Sets or returns the channel 3 hardware skew value.
RFXPress:RADAr:IQImpairment:HWSKew:CH4Val	Sets or returns the channel 4 hardware skew value.

Radar: Interference Addition

Use the following commands for interference addition settings.

Table 2-25: Radar interference addition commands

Command	Description
RFXPress:RADAR:INTFaddition:NOISe:TURNon	Sets or returns the “Turn On” status of Interference Addition Noise.
RFXPress:RADAR:INTFaddition:NOISe:SNRValue	Sets or returns the Interference Addition Noise SNR value.
RFXPress:RADAR:INTFaddition:NOISe:BANDwidth	Sets or returns the Interference Addition Noise bandwidth value.
RFXPress:RADAR:INTFaddition:SIGNaladd:TURNon	Sets or returns the signal addition “Turn On” status.
RFXPress:RADAR:INTFaddition:SIGNaladd:SIGFormat	Sets or returns the signal format selected.
RFXPress:RADAR:INTFaddition:SIGNaladd:VIAIntf	Sets or returns the interference method selection.
RFXPress:RADAR:INTFaddition:SIGNaladd:IWAVEform	Sets or returns the I waveform file name.
RFXPress:RADAR:INTFaddition:SIGNaladd:QWAVEform	Sets or returns the Q waveform file name.
RFXPress:RADAR:INTFaddition:SIGNaladd:RFWAVEform	Sets or returns the RF waveform file name.

Radar: Pulse Impairments

Use the following commands for pulse impairment settings.

Table 2-26: Radar pulse impairment commands

Command	Description
RFXPress:RADAR:PULSe:IMPAirments:JITTer:TURNon	Sets or returns the “Turn On” status of the pulse impairments jitter for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
RFXPress:RADAR:PULSe:IMPAirments:JITTer:EDGEtype	Sets or returns the type of the pulse impairments jitter edge type for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on the pulse impairments jitter before using this command.
RFXPress:RADAR:PULSe:IMPAirments:JITTer:EGDEviation	Sets or returns the width of the pulse impairments jitter edge deviation for the currently selected pulse. Select a pulse group in the pulse train table before using this command. Turn on pulse impairments jitter and set the pulse impairments jitter edge type to either “Uniform” or “Gaussian” before using this command.
RFXPress:RADAR:PULSe:IMPAirments:JITTer:WIDThype	Sets or returns the pulse impairments jitter width type for the currently selected pulse group. Select a pulse group in the pulse train table and turn on pulse impairments jitter before using this command. Set the pulse envelope shape of the selected pulse to anything other than “Saw Tooth” or “Custom”.
RFXPress:RADAR:PULSe:IMPAirments:JITTer:WIDEviation	Sets or returns the pulse impairments jitter width deviation for the currently selected pulse group. Select a pulse group in the pulse train table and turn on jitter impairments before using this command. Set the pulse envelope shape of the selected pulse to anything other than “Saw Tooth” or “Custom”. Set the pulse impairments jitter width type to either “Uniform” or “Gaussian”.

Table 2-26: Radar pulse impairment commands (cont.)

Command	Description
RFXPress:RADAr:PULSe:IMPAirments:AMPDeviation:TURNOn	Sets or returns the "Turn On" status of the pulse impairments amplitude deviation for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Set the pulse envelope shape of the selected pulse to anything other than "Saw Tooth" or "Custom".
RFXPress:RADAr:PULSe:IMPAirments:AMPDeviation:DROOp	Sets or returns the pulse impairments amplitude deviation droop value for the currently selected pulse. Select a pulse group in the pulse train table and "Turn On" pulse impairments amplitude deviation before using this command. Set the pulse envelope shape of the selected pulse to anything other than "Saw Tooth" or "Custom".
RFXPress:RADAr:PULSe:IMPAirments:AMPDeviation:OVShoot	Sets or returns the pulse impairments amplitude deviation overshoot value for the currently selected pulse group. Select a pulse group in the pulse train table and "Turn On" pulse impairments amplitude deviation before using this command. Set the pulse envelope shape of the selected pulse to anything other than "Saw Tooth" or "Custom".
RFXPress:RADAr:PULSe:IMPAirments:AMPDeviation:RIPValue	Sets or returns the width of the pulse impairments amplitude deviation ripple value for the currently selected pulse group. Select a pulse group in the pulse train table and "Turn On" pulse impairments amplitude deviation before using this command. Set the pulse envelope shape of the selected pulse to anything other than "Saw Tooth" or "Custom".
RFXPress:RADAr:PULSe:IMPAirments:AMPDeviation:RIPFrequency	Sets or returns the width of the pulse impairments amplitude deviation ripple frequency value for the currently selected pulse group. Select a pulse group in the pulse train table and "Turn On" pulse impairments amplitude deviation before using this command. Set the pulse envelope shape of the selected pulse to anything other than "Saw Tooth" or "Custom".

Radar: Pulse hopping

Use the following commands for pulse hopping settings.

Table 2-27: Radar pulse hopping commands

Command	Description
RFXPress:RADAr:PULSe:HOPPing:ADDHop	Adds a new hop to the hopping table for the currently selected pulse group. Select a pulse group in the pulse train table and turn on hopping before using this command.
RFXPress:RADAr:PULSe:HOPPing:DELHop	Deletes the selected hop in the hopping table for the currently selected pulse group. Select a pulse group in the pulse train table, turn on pulse hopping, and select a valid hop in the hopping table before using this command.

Table 2-27: Radar pulse hopping commands (cont.)

Command	Description
RFXPress:RADAr:PULSe:HOPPing:OFFSet	Sets or returns the frequency offset of the selected hop in the hopping table for the currently selected pulse group. Select a pulse group in the pulse train table, Turn On pulse hopping, and select a valid hop in the hopping table before using this command.
RFXPress:RADAr:PULSe:HOPPing:RELAmpIitude	Sets or returns the relative amplitude of the currently selected hop in the hopping table for the selected pulse group. Select a pulse group in the pulse train table, turn on pulse hopping, and select a valid hop in the hopping table before using this command.
RFXPress:RADAr:PULSe:HOPPing:REPEat	Sets or returns the repeat status of the pulse hopping for the currently selected pulse group. Select a pulse group in the pulse train table and turn on pulse hopping before using this command.
RFXPress:RADAr:PULSe:HOPPing:SELHop	Sets or returns the hop with the specified index in the hopping table for the currently selected pulse. Select a pulse group in the pulse train table and turn on hopping before using this command.
RFXPress:RADAr:PULSe:HOPPing:TURNon	Sets or returns the “Turn On” status of the pulse hopping for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

Radar: Pulse Staggered PRI

Use the following commands for pulse staggered PRI settings.

Table 2-28: Radar pulse staggered PRI commands

Command	Description
RFXPress:RADAr:PULSe:STAGpri:ADDPri	Adds a new PRI deviation to the PRI Deviation table for the currently selected pulse group. Select a pulse group in the pulse train table, turn on staggered PRI, and set the staggered PRI type to “User Defined” before using this command. The number of PRI deviations that can be added depends upon the pulse group’s repeat value.
RFXPress:RADAr:PULSe:STAGpri:DELPri	Deletes the selected index in the PRI deviation table for the currently selected pulse group. Select a pulse group in the pulse train table, turn ON the staggered PRI, and set the staggered PRI type to “User Defined” before using this command.
RFXPress:RADAr:PULSe:STAGpri:DEVlation	Sets or returns the specified index of the PRI deviation in the PRI Deviation table for the currently selected pulse. Select a pulse group in the pulse train table, turn on staggered PRI, and set the staggered PRI type to “User Defined” before using this command.

Table 2-28: Radar pulse staggered PRI commands (cont.)

Command	Description
RFXPress:RADAr:PULSe:STAGpri:REPEat	Sets or returns the repeat status of the pulse staggered PRI for the currently selected pulse group. Select a pulse group in the pulse train table and turn on the staggered PRI type to "User Defined" before using this command.
RFXPress:RADAr:PULSe:STAGpri:SELPri	Sets or returns the specified index of the PRI deviation in the PRI Deviation table for the currently selected pulse. Select a pulse group in the pulse train table, turn on staggered PRI, and set the staggered PRI type to "User Defined" before using this command.
RFXPress:RADAr:PULSe:STAGpri:SLOPe	Sets or returns the slope of the staggered PRI ramp for the currently selected pulse group. Select a pulse group in the pulse train table, turn on the staggered PRI, and set the staggered PRI type to "Ramp" before using this command.
RFXPress:RADAr:PULSe:STAGpri:TURNOn	Sets or returns the "Turn On" status of the pulse staggered PRI for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
RFXPress:RADAr:PULSe:STAGpri:TYPE	Sets or returns the type of the staggered PRI for the currently selected pulse group. Select a valid pulse or dead-time in the pulse train table and turn on the staggered PRI before using this command.

Radar: Pulse modulation

Use the following commands for pulse modulation settings.

Table 2-29: Radar pulse modulation commands

Command	Description
RFXPress:RADAr:PULSe:MODUlation	Sets or returns the modulation for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
RFXPress:RADAr:PULSe:MODUlation:CUSTom:FNAME	Sets or returns the file name in the custom modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to custom modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:USFM:DURATION	Sets or returns the duration for the selected step in the User-defined SFM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined SFM before using this command.
RFXPress:RADAr:PULSe:MODUlation:USFM:FRQOffset	Sets or returns the frequency offset for the selected step in the User-defined SFM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined SFM before using this command.

Table 2-29: Radar pulse modulation commands (cont.)

Command	Description
RFXPress:RADAr:PULSe:MODUlation:BCPBarker:CODE	Sets or returns the barker code in the Biphase Coded Pulse modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Biphase Coded Pulse modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:LFM:FRQSweep	Sets or returns the frequency sweep in the linear frequency modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to linear frequency before using this command.
RFXPress:RADAr:PULSe:MODUlation:LFM:SWPRange	Sets or returns the sweep range in the linear frequency modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to linear frequency before using this command.
RFXPress:RADAr:PULSe:MODUlation:NLFM:COEFFicient	Sets or returns the coefficient for the selected order in the linear frequency modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Non Linear FM modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:NLFM:SELOrder	Sets or returns the currently selected order in the Non Linear FM for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Non Linear FM modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:PLPCodes:INIOffset	Sets or returns the initial offset in the polyphase code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Polyphase modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:PLPCodes:PHSOffset	Sets or returns the phase offset in the polyphase code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Polyphase modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:PLPCodes:STEPs	Sets or returns the number of steps in the polyphase code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Polyphase modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:SFM:INIStep	Sets or returns the initial step size in the step frequency modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to step frequency modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:SFM:STEPs	Sets or returns the number of steps in the step frequency modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to step frequency modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:SFM:STPSize	Sets or returns the step size in the step frequency modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to step frequency modulation before using this command.

Table 2-29: Radar pulse modulation commands (cont.)

Command	Description
RFXPress:RADAr:PULSe:MODUlation:USDCodes:ADDN ¹	Adds 'n' user defined code steps in the User-defined Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:USDCodes:DELN ¹	Deletes 'n' user defined code step in the User-defined Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:USDCodes:DURAtion ¹	Sets or returns the duration for the selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:USDCodes:PHASe ¹	Sets or returns the phase for the selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:USFM:SELStep ¹	Sets or returns the currently selected step in the User-defined SFM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined SFM before using this command.
RFXPress:GENPurpose:CARRier<n>:PHASe	Sets or returns the phase shift of the carrier 'n' where [n] is replaced with the carrier number. This parameter input is in degrees when the signal format is IF/RF and not valid when the signal format is IQ.
RFXPress:RADAr:PULSe:MODUlation:FRANK:CODElength	Sets or returns the code length in the Frank Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Frank Code modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:NLFM:ADD	Adds 'n' order in the Non Linear FM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Non Linear FM modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:NLFM:DELN	Deletes 'n' order in the Non Linear FM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Non Linear FM modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:P1COde:CODElength	Sets or returns the code length in the P1-Polyphase Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to P1-Polyphase Code modulation before using this command.

Table 2-29: Radar pulse modulation commands (cont.)

Command	Description
RFXPress:RADAr:PULSe:MODUlation:P2COde:CODElength	Sets or returns the code length in the P2-Polyphase Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to P2-Polyphase Code modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:P3COde:CODElength	Sets or returns the code length in the P3-Polyphase Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to P3-Polyphase Code modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:P4COde:CODElength	Sets or returns the code length in the P4-Polyphase Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to P4-Polyphase Code modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:QPSK:SAME	Sets or returns the status of “Same symbols for all pulses” for the QPSK modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to QPSK modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:QPSK:SYMBols	Sets or returns the number of symbols in the QPSK modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to QPSK modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:UPDN:INVErt	Sets or returns the status of Invert for the Up-Down Chirp modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Up-Down Chirp modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:UPDN:UPDOWns	Sets or returns the number of up-downs in the Up-Down Chirp modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Up-Down Chirp modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:USDCodes:AMPLitude	Sets or returns the amplitude for the selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM before using this command.
RFXPress:RADAr:PULSe:MODUlation:USFM:ADDN	Adds ‘n’ user defined steps in the User-defined Step FM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step FM AM before using this command.
RFXPress:RADAr:PULSe:MODUlation:USFM:DELN	Deletes ‘n’ user defined step in the User-defined Step FM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step FM AM before using this command.

Table 2-29: Radar pulse modulation commands (cont.)

Command	Description
RFXPress:RADAr:PULSe:MODUlation:USPM:AMPLitude	Sets or returns the amplitude for the selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:USPM:DELN	Deletes 'n' user defined code step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:USPM:DURAtion	Sets or returns the duration for the selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:USPM:PHASe	Sets or returns the phase for the selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:USPM:SELStep	Sets or returns the currently selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.

¹ This command has been deprecated; however, it is still supported for backward compatibility.

Command Descriptions

RFXPress (No Query Form)

Launches the RFXpress application.

Group Launch

Syntax RFXPress

Examples RFXPRESS launches the RFXpress application.

RFXPress:COMPILE (No Query Form)

Compiles to generate waveforms.

Group Compile settings

Syntax RFXPress:COMPILE

Examples RFXPRESS:COMPILE compiles a waveform.

RFXPress:COMPILE:ADJWrap

Enables and disables wrap-around.

Group Compile settings

Syntax RFXPress:COMPILE:ADJWrap {<NR1>|OFF|ON}
RFXPress:COMPILE:ADJWrap?

Arguments Boolean

Returns Boolean

Examples RFXPRESS:COMPILE:ADJWRAP 1 enables adjust wrap-around.
RFXPRESS:COMPILE:ADJWRAP? disables the adjust wrap-around status

RFXPress:COMPile:AOverSamp1

Sets or returns the auto oversampling calculation option.

Group Compile settings

Syntax RFXPress:COMPile:AOverSamp1 {<NR1>|OFF|ON}
RFXPress:COMPile:AOverSamp1?

Related Commands [RFXPress:COMPile:OVERSamp1](#)

Arguments Boolean

Returns Boolean

Examples RFXPRESS:COMPILE:AOVERSAMPL 1 enables the auto oversampling calculation.
RFXPRESS:COMPILE:AOVERSAMPL? returns the auto oversampling calculation selection.

RFXPress:COMPile:AWFLength

Sets or returns the auto waveform length calculation option.

Group Compile settings

Syntax RFXPress:COMPile:AWFLength {<NR1>|OFF|ON}
RFXPress:COMPile:AWFLength?

Related Commands [RFXPress:COMPile:WLENgth](#)
[RFXPress:COMPile:WLTYPe](#)

Arguments Boolean

Returns Boolean

Examples RFXPRESS:COMPILE:AWFLENGTH 1 enables the auto waveform length calculation.

RFXPRESS:COMPILE:AWFLENGTH? returns the auto waveform length calculation selection.

RFXPress:COMPILE:CORREction:CHFour

Sets or returns the option for applying correction on channel 4. The correction can be applied only when the selected plug-in is Generic Signal.

NOTE. *This command is applicable only when RFXpress is running on an arbitrary waveform generator (AWG).*

Group Compile settings

Syntax RFXPress:COMPILE:CORREction:CHFour {<NR1>|OFF|ON}
RFXPress:COMPILE:CORREction:CHFour?

Arguments Boolean

Returns Boolean

Examples RFXPRESS:COMPILE:CORRECTION:CHFOUR 1 applies correction on channel 4.

RFXPRESS:COMPILE:CORRECTION:CHFOUR? returns the apply correction status on channel 4.

RFXPress:COMPILE:CORREction:CHOne

Sets or returns the option for applying correction on channel 1. The correction can be applied only when the selected plug-in is Generic Signal.

NOTE. *This command is applicable only when RFXpress is running on an arbitrary waveform generator (AWG).*

Group Compile settings

Syntax RFXPress:COMPile:CORRection:CHONE {<NR1>|OFF|ON}
RFXPress:COMPile:CORRection:CHONE?

Arguments Boolean

Returns Boolean

Examples RFXPRESS:COMPILE:CORRECTION:CHONE 1 applies correction on channel 1.
RFXPRESS:COMPILE:CORRECTION:CHONE? returns the apply correction status on channel 1.

RFXPress:COMPile:CORRection:CHTHree

Sets or returns the option for applying correction on channel 3. The correction can be applied only when the selected plug-in is Generic Signal.

NOTE. *This command is applicable only when RFXpress is running on an arbitrary waveform generator (AWG).*

Group Compile settings

Syntax RFXPress:COMPile:CORRection:CHTHree {<NR1>|OFF|ON}
RFXPress:COMPile:CORRection:CHTHree?

Arguments Boolean

Returns Boolean

Examples RFXPRESS:COMPILE:CORRECTION:CHTHREE 1 applies correction on channel 3.
RFXPRESS:COMPILE:CORRECTION:CHTHREE? returns the apply correction status on channel 3.

RFXPress:COMPile:CORRection:CHTWo

Sets or returns the option for applying correction on channel 2. The correction can be applied only when the selected plug-in is Generic Signal.

NOTE. This command is applicable only when RFXpress is running on an arbitrary waveform generator (AWG).

Group	Compile settings
Syntax	RFXPress:COMPILE:CORREction:CHTwo {<NR1> OFF ON} RFXPress:COMPILE:CORREction:CHTwo?
Arguments	Boolean
Returns	Boolean
Examples	RFXPRESS:COMPILE:CORRECTION:CHTWO 1 applies correction on channel 2. RFXPRESS:COMPILE:CORRECTION:CHTWO? returns the apply correction status on channel 2.

RFXPress:COMPILE:CORREction:FNAME

Sets or returns the correction file name. The correction file name can be set only when the selected plug-in is Generic Signal.

NOTE. This command is applicable only when RFXpress is running on an arbitrary waveform generator (AWG).

Group	Compile settings
Syntax	RFXPress:COMPILE:CORREction:FNAME RFXPress:COMPILE:CORREction:FNAME?
Arguments	String
Returns	String
Examples	RFXPRESS:COMPILE:CORRECTION:FNAME "E:\Test.rfc" sets the correction file name to "E:\Test.rfc". RFXPRESS:COMPILE:CORRECTION:FNAME? returns the correction file name.

RFXPress:COMPile:CPASend

Sets the compile and send option. When set to true, the command compiles and send the waveforms to AWG. When set to false, the command only compiles the waveform.

Group	Compile settings
Syntax	RFXPress:COMPile:CPASend {<NR1> OFF ON} RFXPress:COMPile:CPASend?
Arguments	Boolean
Returns	Boolean
Examples	RFXPRESS:COMPILE:CPASEND 1 compiles and sends the waveform to the AWG. RFXPRESS:COMPILE:CPASEND? returns the compile and send option.

RFXPress:COMPile:ICHannel

Sets or returns the I channel (the number of channels depends on the instrument). This parameter can be set only when the signal format mode is IQ.

Group	Compile settings
Syntax	RFXPress:COMPile:ICHannel RFXPress:COMPile:ICHannel?
Related Commands	RFXPress:COMPile:SIGFormat
Arguments	CHOne, CHTwo, CHTHree, CHFOur
Returns	CHOne, CHTwo, CHTHree, CHFOur
Examples	RFXPRESS:COMPILE:ICHANNEL CHTwo sets the I channel to Channel 2. RFXPRESS:COMPILE:ICHANNEL? returns the I channel.

RFXPress:COMPile:IINVert

Sets or returns the I Invert status.

Group	Compile settings
Syntax	RFXPress:COMPile:IINVert {<NR1> OFF ON} RFXPress:COMPile:IINVert?
Arguments	Boolean
Returns	Boolean
Examples	RFXPRESS:COMPILE:IINVERT 1 enables I Invert. RFXPRESS:COMPILE:IINVERT? returns the I Invert status.

RFXPress:COMPile:IQNormfact

Sets or returns the normalization/division factor in the compile settings for IQ

Group	Compile settings
Syntax	RFXPress:COMPile:IQNormfact RFXPress:COMPile:IQNormfact?
Arguments	Real
Returns	Real
Examples	RFXPRESS:COMPILE:IQNORMFACT 1.5 sets the IQ Normalization factor to 1.5. RFXPRESS:COMPILE:IQNORMFACT? returns the normalization or division factor.

RFXPress:COMPile:IWFName

Sets or returns the I waveform name in the compile settings when the signal format is IF/RF or IQ. But the waveform name is applied during compilation only when the signal format is IQ.

Group	Compile settings
Syntax	RFXPress:COMPile:IWFmname RFXPress:COMPile:IWFmname?
Arguments	String
Returns	String
Examples	RFXPRESS:COMPILE:IWFNAME "waveform_I" RFXPRESS:COMPILE:IWFNAME?

RFXPress:COMPile:NORMmode

Sets or returns the normalization mode in compile settings.

Group	Compile settings
Syntax	RFXPress:COMPile:NORMmode RFXPress:COMPile:NORMmode?
Arguments	AUTOnorm, MANuaInorm
Returns	AUTOnorm, MANuaInorm
Examples	RFXPRESS:COMPILE:NORMMODE AUTOnorm sets the normalization mode to Auto. RFXPRESS:COMPILE:NORMMODE? returns the normalization mode.

RFXPress:COMPile:OVERsAMPL

Sets or returns the oversampling. This parameter can be set only when automatic oversampling calculation is set to "Off".

Group	Compile settings
--------------	------------------

Syntax RFXPress:COMPILE:OVERSAMPL
RFXPress:COMPILE:OVERSAMPL?

Related Commands [RFXPress:COMPILE:AOVERSAMPL](#)

Arguments Real

Returns Real

Examples RFXPRESS:COMPILE:OVERSAMPL 10 sets the oversampling to 10.
RFXPRESS:COMPILE:OVERSAMPL? returns the oversampling.

RFXPress:COMPILE:QCHANNEL

Sets or returns the Q channel (the number of channels depends on the instrument).

Group Compile settings

Syntax RFXPress:COMPILE:QCHANNEL
RFXPress:COMPILE:QCHANNEL?

Arguments CHONE, CHTwo, CHTHree, CHFour

Returns CHONE, CHTwo, CHTHree, CHFour

Examples RFXPRESS:COMPILE:QCHANNEL CHTwo sets the Q channel to Channel 2.
RFXPRESS:COMPILE:QCHANNEL? returns the Q channel.

RFXPress:COMPILE:QINVERT

Sets or returns Q Invert.

Group Compile settings

Syntax RFXPress:COMPILE:QINVERT {<NR1>|OFF|ON}
RFXPress:COMPILE:QINVERT?

Arguments	Boolean
Returns	Boolean
Examples	RFXPRESS:COMPILE:QINVERT 1 sets Q Invert. RFXPRESS:COMPILE:QINVERT? returns Q Invert.

RFXPress:COMPile:QWFMname

Sets or returns the Q waveform name in the compile settings when the signal format is IF/RF or IQ. But the waveform name is applied during compilation only when the signal format is IQ. Sets or returns the Q waveform name in compile settings.

Group	Compile settings
Syntax	RFXPress:COMPile:QWFMname RFXPress:COMPile:QWFMname?
Arguments	String
Returns	String
Examples	RFXPRESS:COMPILE:QWFMNAME "waveform_Q" sets the Q waveform name to Waveform_Q. RFXPRESS:COMPILE:QWFMNAME? sets the Q waveform name.

RFXPress:COMPile:RADAr:ADJUsT

Sets or returns the adjusted pulse time or frequency parameters. These values must be adjusted to meet the AWG specifications. This command is applicable only when the selected plug-in is Radar signal.

Group	Compile settings
Syntax	RFXPress:COMPile:RADAr:ADJUsT RFXPress:COMPile:RADAr:ADJUsT?

Arguments	Time, Frequency
Returns	Time, Frequency
Examples	<p>RFXPRESS:COMPILE:RADAR:ADJUST TIME sets the adjustment parameter to Time.</p> <p>RFXPRESS:COMPILE:RADAR:ADJUST? returns the selected adjustment pulse parameter.</p>

RFXPress:COMpile:RFCHannel

Sets or returns the RF channel. This parameter can be set only when the signal format mode is IF/RF. The number of channels depends on the instrument.

Group	Compile settings
Syntax	<pre>RFXPress:COMpile:RFCHannel RFXPress:COMpile:RFCHannel?</pre>
Arguments	CH0ne, CHTwo, CHTHree, CHFOur
Returns	CH0ne, CHTwo, CHTHree, CHFOur
Examples	<p>RFXPRESS:COMPILE:RFCHANNEL CHTwo set the RF channel to Channel 2.</p> <p>RFXPRESS:COMPILE:RFCHANNEL? returns the RF channel.</p>

RFXPress:COMpile:RFNormfact

Sets or returns the normalization/division factor in the compile settings for IF/RF signals.

Group	Compile settings
Syntax	<pre>RFXPress:COMpile:RFNormfact RFXPress:COMpile:RFNormfact?</pre>
Arguments	Real

Returns Real

Examples RFXPRESS:COMPILE:RFNORMFACT 1.5 sets the IF/Rf normalization factor to 1.5.

RFXPRESS:COMPILE:RFNORMFACT? returns the IF/Rf normalization factor.

RFXPress:COMPile:RFWFmname

Sets or returns the IF/Rf waveform name in the compile settings when the signal format is IF/Rf or IQ. But the waveform name is applied during compilation only when the signal format is IF/Rf.

Group Compile settings

Syntax RFXPress:COMPile:RFWFmname
RFXPress:COMPile:RFWFmname?

Arguments String

Returns String

Examples RFXPRESS:COMPILE:RFWFNAME "waveform1" sets the IF/Rf waveform name to Waveform1.

RFXPRESS:COMPILE:RFWFNAME? returns the IF/Rf waveform name.

RFXPress:COMPile:SIGFormat

Sets or returns the signal format in RFXpress.

Group Compile settings

Syntax RFXPress:COMPile:SIGFormat
RFXPress:COMPile:SIGFormat?

Arguments IQ, IFRF

Returns IQ, IFRF

Examples RFXPRESS:COMPILE:SIGFORMAT IFRF sets the signal format to IF/RF.
RFXPRESS:COMPILE:SIGFORMAT? returns the signal format.

RFXPress:COMPile:WLENgth

Sets or returns the waveform length. This parameter can be set only when the automatic waveform length calculation is set to “Off”. When the waveform type is ‘TIME’, specify the waveform length in seconds.

Group Compile settings

Syntax RFXPress:COMPile:WLENgth
RFXPress:COMPile:WLENgth?

Related Commands [RFXPress:COMPile:WLTyPe](#)
[RFXPress:COMPile:AWFLength](#)

Arguments Real

Returns Real

Examples RFXPRESS:COMPILE:WLENGTH 20000 sets the waveform length to 20000.
RFXPRESS:COMPILE:WLENGTH? returns the waveform length.

RFXPress:COMPile:WLTyPe

Sets or returns the waveform length type. This parameter can be set only when the automatic waveform length calculation is set to “Off”.

Group Compile settings

Syntax RFXPress:COMPile:WLTyPe
RFXPress:COMPile:WLTyPe?

Related Commands [RFXPress:COMPile:WLENgth](#)
[RFXPress:COMPile:AWFLength](#)

Arguments	SAMPles, SYMBols, TIME
Returns	SAMPles, SYMBols, TIME
Examples	RFXPRESS:COMPILE:WLTYPE SAMPles sets the waveform length type as samples. RFXPRESS:COMPILE:WLTYPE? returns the waveform length type.

RFXPress:GENPurpose:ADDCarrier (No Query Form)

Adds 'n' carriers in the carrier table.

Group	Generic signal: Multi-carrier settings
Syntax	RFXPress:GENPurpose:ADDCarrier
Arguments	Integer
Examples	RFXPRESS:GENPURPOSE:ADDCARRIER 2 adds two carriers.

RFXPress:GENPurpose:ANCHor

Sets or returns the carrier as anchor carrier in the multi-carrier table. This command is applicable only in multi-carrier mode.

Group	Generic signal: Multi-carrier settings
Syntax	RFXPress:GENPurpose:ANCHor RFXPress:GENPurpose:ANCHor?
Related Commands	RFXPress:GENPurpose:CARType
Arguments	Boolean
Returns	Boolean

Examples RFXPRESS:GENPURPOSE:ANCHOR 3 sets carrier 3 as the anchor carrier.
RFXPRESS:GENPURPOSE:ANCHOR? returns the anchor carrier.

RFXPress:GENPurpose:CARRIER<n>:ALPHA

Sets or returns the Alpha/(B*T) for carrier <n>, where <n> is the carrier number.

Group Generic signal: Setup

Syntax RFXPress:GENPurpose:CARRIER<n>:ALPHA
RFXPress:GENPurpose:CARRIER<n>:ALPHA?

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:ALPHA 0.20 sets the Alpha/(B*T) for carrier 1 to 0.20.
RFXPress:GENPurpose:CARRIER1:ALPHA? returns the Alpha/(B*T) for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:AMPLITUDE

Sets or returns the amplitude of carrier <n>, where <n> is the carrier number. This parameter input value is dBm when the signal format is IF/RF and is V_{rms} when the signal format is IQ.

Group Generic signal: Setup

Syntax RFXPress:GENPurpose:CARRIER<n>:AMPLITUDE
RFXPress:GENPurpose:CARRIER<n>:AMPLITUDE?

Arguments Real

Returns Real

Examples `RFXPRESS:GENPURPOSE:CARRIER1:AMPLITUDE 3.1` sets the amplitude of carrier 1 to 3.1 dBm.

`RFXPRESS:GENPURPOSE:CARRIER1:AMPLITUDE?` returns the amplitude of carrier 1.

RFXPress:GENPurpose:CARRier<n>:BBOffset

Sets or returns the baseband offset for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the signal format is IQ.

Group Generic signal: Setup

Syntax `RFXPress:GENPurpose:CARRier<n>:BBOffset`
`RFXPress:GENPurpose:CARRier<n>:BBOffset?`

Related Commands [RFXPress:COMPile:SIGFormat](#)

Arguments Real

Returns Real

Examples `RFXPRESS:GENPURPOSE:CARRIER1:BBOFFSET 1e6` sets the baseband offset for carrier 1 to 1 MHz.

`RFXPRESS:GENPURPOSE:CARRIER1:BBOFFSET?` returns the baseband offset for carrier 1.

RFXPress:GENPurpose:CARRier<n>:BSEData

Sets or returns the base data type of carrier <n>, where <n> is the carrier number.

Group Generic signal: Setup

Syntax `RFXPress:GENPurpose:CARRier<n>:BSEData`
`RFXPress:GENPurpose:CARRier<n>:BSEData?`

Arguments ALLZero, ALLOne, PRBS, PATtern, FILE

Returns ALLZero, ALLOne, PRBS, PATTErn, FILE

Examples RFXPRESS:GENPURPOSE:CARRIER1:BMEDATA PRBS sets the base data of carrier 1 to PRBS.

RFXPRESS:GENPURPOSE:CARRIER1:BMEDATA? returns the base data type for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:BMEDATA:FILE

Sets or returns the user-defined file for File Base data type of carrier <n>, where <n> is the carrier number. The file path must be given and should be present in the host which has RFXpress loaded.

Group Generic signal: Setup

Syntax RFXPress:GENPurpose:CARRIER<n>:BMEDATA:FILE
RFXPress:GENPurpose:CARRIER<n>:BMEDATA:FILE?

Arguments String

Returns String

Examples RFXPRESS:GENPURPOSE:CARRIER1:BMEDATA:FILE "C:\Userfile.txt" sets the user defined file as "C:\Userfile.txt" for carrier 1.

RFXPRESS:GENPURPOSE:CARRIER1:BMEDATA:FILE? returns the base data file for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:BMEDATA:PATTERn

Sets or returns the Pattern Data for Pattern Base data type of carrier <n>, where <n> is the carrier number. Only binary patterns are accepted.

Group Generic signal: Setup

Syntax RFXPress:GENPurpose:CARRIER<n>:BMEDATA:PATTERn
RFXPress:GENPurpose:CARRIER<n>:BMEDATA:PATTERn?

Arguments	String
Returns	String
Examples	<p>RFXPRESS:GENPURPOSE:CARRIER1:BSEDATA:PATTERN "101010101" sets the pattern data as "101010101".</p> <p>RFXPRESS:GENPURPOSE:CARRIER1:BSEDATA:PATTERN? returns the base data binary pattern for carrier 1.</p>

RFXPress:GENPurpose:CARRIER<n>:BSEData:PRBS

Sets or returns the PRBS type of carrier <n>, where <n> is the carrier number.

Group	Generic signal: Setup
Syntax	<p>RFXPress:GENPurpose:CARRIER<n>:BSEData:PRBS</p> <p>RFXPress:GENPurpose:CARRIER<n>:BSEData:PRBS?</p>
Arguments	<p>String</p> <p>The string values are:</p> <p>7, 9, 15, 16, 21, 23, User-defined</p>
Returns	<p>String</p> <p>The string values returned are:</p> <p>7, 9, 15, 16, 21, 23, User-defined</p>
Examples	<p>RFXPRESS:GENPURPOSE:CARRIER1:BSEDATA:PRBS "User-defined" sets the PRBS type of carrier 1 to "User-defined".</p> <p>RFXPRESS:GENPURPOSE:CARRIER1BSEDATA:PRBS? returns the PRBS type for carrier 1.</p>

RFXPress:GENPurpose:CARRIER<n>:BSEData:PRBS:USRDefined:IPOLynomial

Sets or returns the user-defined PRBS initial polynomial expression of carrier <n>, where <n> is the carrier number.

Group	Generic signal: Setup
Syntax	RFXPress:GENPurpose:CARRIER<n>:BSEData:PRBS:USRDefined: IPOLynomial RFXPress:GENPurpose:CARRIER<n>:BSEData:PRBS:USRDefined: IPOLynomial?
Arguments	String Valid polynomial expressions are accepted.
Returns	String
Examples	RFXPRESS:GENPURPOSE:CARRIER1:BSEDATA:PRBS:USRDEFINED:POLYNOMIAL "X20+X15+1" sets the initial polynomial for the user-defined PRBS to "X20+x15+1". RFXPRESS:GENPURPOSE:CARRIER1:BSEDATA:PRBS:USRDEFINED:IPOLYNOMIAL? returns the initial polynomial expression of user-defined PRBS type for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:BSEData:PRBS:USRDefined:POLYnomial

Sets or returns the user-defined PRBS polynomial expression of carrier <n>, where <n> is the carrier number.

Group	Generic signal: Setup
Syntax	RFXPress:GENPurpose:CARRIER<n>:BSEData:PRBS:USRDefined: POLYnomial RFXPress:GENPurpose:CARRIER<n>:BSEData:PRBS:USRDefined: POLYnomial?
Related Commands	RFXPress:GENPurpose:CARRIER<n>:BSEData:PRBS
Arguments	String Valid polynomial expressions are accepted.
Returns	String

- Examples** `RFXPRESS:GENPURPOSE:CARRIER1:BMSEDATA:PRBS:USRDEFINED:POLYNOMIAL "X15+X14+1"` sets the polynomial for the user-defined PRBS to "X15+x14+1".
- `RFXPRESS:GENPURPOSE:CARRIER1:BMSEDATA:PRBS:USRDEFINED:POLYNOMIAL?` returns the polynomial expression of user-defined PRBS type for carrier 1.

RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS:USRDefined:SREGister

Sets or returns the user-defined PRBS Shift Register pattern of carrier <n>, where <n> is the carrier number. The length of the pattern depends upon the polynomial expression.

Group Generic signal: Setup

Syntax `RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS:USRDefined:SREGister`
`RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS:USRDefined:SREGister?`

Related Commands [RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS:USRDefined:POLYnomial](#)
[RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS](#)

Arguments string
 Only binary patterns are accepted.

Returns string

- Examples** `RFXPRESS:GENPURPOSE:CARRIER1:BMSEDATA:PRBS:USRDEFINED:SREGISTER "101010101010101"` sets the shift register bit pattern to "1010101010101" for the polynomial expression of "X15+x14+1".
- `RFXPRESS:GENPURPOSE:CARRIER1:BMSEDATA:PRBS:USRDEFINED:SREGISTER?` returns the Shift register binary pattern user-defined PRBS type for carrier 1.

RFXPress:GENPurpose:CARRier<n>:CHBRipple

Sets or returns the Chebyshev ripple for carrier <n>, where <n> is the carrier number. This is applicable only if the window selected is Chebyshev Ripple.

Group	Generic signal: Setup
Syntax	RFXPress:GENPurpose:CARRIER<n>:CHBRipple RFXPress:GENPurpose:CARRIER<n>:CHBRipple?
Related Commands	RFXPress:GENPurpose:CARRIER<n>:WINDOW
Arguments	Real
Returns	Real
Examples	RFXPRESS:GENPURPOSE:CARRIER1:CHBRIPPLE 14.3 sets the Chebyshev ripple for carrier 1 to 14.3 . RFXPRESS:GENPURPOSE:CARRIER1:CHBRIPPLE? returns the Chebyshev ripple for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:CODING

Sets or returns the coding for carrier <n>, where <n> is the carrier number.

Group	Generic signal: Setup
Syntax	RFXPress:GENPurpose:CARRIER<n>:CODING RFXPress:GENPurpose:CARRIER<n>:CODING?
Arguments	String The string values are: None, Gray, Differential, Gray differential, NADC, TFTS, MSAT differential
Returns	String The string values returned are: None, Gray, Differential, Gray differential, NADC, TFTS, MSAT differential

Examples RFXPRESS:GENPURPOSE:CARRIER1:CODING "Gray" sets carrier 1 coding to Gray.
 RFXPRESS:GENPURPOSE:CARRIER1:CODING? returns carrier 1 coding.

RFXPress:GENPurpose:CARRier<n>:CONLen

Sets or returns the convolution length for carrier <n>, where <n> is the carrier number.

Group Generic signal: Setup

Syntax RFXPress:GENPurpose:CARRier<n>:CONLen
 RFXPress:GENPurpose:CARRier<n>:CONLen?

Arguments Integer

Returns Integer

Examples RFXPRESS:GENPURPOSE:CARRIER1:CONLEN 11 sets the convolution length for carrier 1 to 11 symbols.
 RFXPRESS:GENPURPOSE:CARRIER1:CONLEN? returns the convolution length for carrier 1.

RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMA3k

Sets or returns the AMAM3k value for carrier <n>, where <n> is the carrier number.

Group Generic signal: Distortion addition

Syntax RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMA3k
 RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMA3k?

Related Commands [RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:TURNOn](#)
[RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMPLtype](#)

Arguments Real

Returns Real

Examples `RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:AMA3K 0.02` sets the AMAM3k for carrier 1 to 0.02 dB.

`RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:AMA3K?` returns the AMAM3k for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:DISTAddition:AMPLifier:AMA5k

Sets or returns the AMAM5k value for carrier <n>, where <n> is the carrier number.

Group Generic signal: Distortion addition

Syntax `RFXPress:GENPurpose:CARRIER<n>:DISTAddition:AMPLifier:AMA5k`
`RFXPress:GENPurpose:CARRIER<n>:DISTAddition:AMPLifier:AMA5k?`

Related Commands [RFXPress:GENPurpose:CARRIER<n>:DISTAddition:AMPLifier:TURNOn](#)
[RFXPress:GENPurpose:CARRIER<n>:DISTAddition:AMPLifier:AMPLtype](#)

Arguments Real

Returns Real

Examples `RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:AMA5K 0.02` sets the AMAM5k for carrier 1 to 0.02 dB.

`RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:AMA5K?` returns the AMAM5k for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:DISTAddition:AMPLifier:AMP3k

Sets or returns the AMPM3k value for carrier <n>, where <n> is the carrier number.

Group Generic signal: Distortion addition

Syntax	<pre>RFXPress:GENPurpose:CARRier<n>:DISTAddition:AMPLifier:AMP3k RFXPress:GENPurpose:CARRier<n>:DISTAddition:AMPLifier:AMP3k?</pre>
Related Commands	<pre>RFXPress:GENPurpose:CARRier<n>:DISTAddition:AMPLifier:TURNon RFXPress:GENPurpose:CARRier<n>:DISTAddition:AMPLifier:AMPLtype</pre>
Arguments	Real
Returns	Real
Examples	<pre>RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:AMP3K 0.02 sets the AMPM3k for carrier 1 to 0.02 degrees. RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:AMP3K? returns the AMPM3k for carrier 1.</pre>

RFXPress:GENPurpose:CARRier<n>:DISTAddition:AMPLifier:AMP5k

Sets or returns the AMPM5k value for carrier <n>, where <n> is the carrier number.

Group	Generic signal: Distortion addition
Syntax	<pre>RFXPress:GENPurpose:CARRier<n>:DISTAddition:AMPLifier:AMP5k RFXPress:GENPurpose:CARRier<n>:DISTAddition:AMPLifier:AMP5k?</pre>
Related Commands	<pre>RFXPress:GENPurpose:CARRier<n>:DISTAddition:AMPLifier:TURNon RFXPress:GENPurpose:CARRier<n>:DISTAddition:AMPLifier:AMPLtype</pre>
Arguments	Real
Returns	Real
Examples	<pre>RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:AMP5K 0.02 sets the AMPM5k for carrier 1 to 0.02 degrees. RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:AMP5K? returns the AMPM5k for carrier 1.</pre>

RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMPLtype

Sets or returns the amplifier type settings for carrier <n>, where <n> is the carrier number.

Group Generic signal: Distortion addition

Syntax RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:
AMPLtype
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:
AMPLtype?

Related Commands [RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:TURNon](#)

Arguments String
The string values are:
Non-linear
Hard Limiting
Soft Limiting

Returns String
The string values returned are:
Non-linear
Hard Limiting
Soft Limiting

Examples RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:AMPLTYPE
"Hard Limiting" sets the amplifier type for the carrier 1 to Hard Limiting.
RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:AMPLTYPE?
returns the amplifier type for the carrier 1.

RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:LIMItlevel

Sets or returns the amplifier type limiting level for carrier <n>, where <n> is the carrier number.

Group Generic signal: Distortion addition

Syntax	<pre>RFXPress:GENPurpose:CARRier<n>:DISTAddition:AMPLifier: LIMITlevel RFXPress:GENPurpose:CARRier<n>:DISTAddition:AMPLifier: LIMITlevel?</pre>
Related Commands	<pre>RFXPress:GENPurpose:CARRier<n>:DISTAddition:AMPLifier:TURNOn RFXPress:GENPurpose:CARRier<n>:DISTAddition:AMPLifier:AMPLtype</pre>
Arguments	Real
Returns	Real
Examples	<pre>RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:LIMITINGLEVEL 0.6 sets the limiting level for carrier 1 to 0.6. RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:LIMITINGLEVEL? returns the limiting level for carrier 1.</pre>

RFXPress:GENPurpose:CARRier<n>:DISTAddition:AMPLifier:OPERatingpt

Sets or returns the amplifier type operating point for carrier <n>, where <n> is the carrier number.

Group	Generic signal: Distortion addition
Syntax	<pre>RFXPress:GENPurpose:CARRier<n>:DISTAddition:AMPLifier: OPERatingpt RFXPress:GENPurpose:CARRier<n>:DISTAddition:AMPLifier: OPERatingpt?</pre>
Related Commands	<pre>RFXPress:GENPurpose:CARRier<n>:DISTAddition:AMPLifier:TURNOn RFXPress:GENPurpose:CARRier<n>:DISTAddition:AMPLifier:AMPLtype</pre>
Arguments	Real
Returns	Real
Examples	<pre>RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:OPERATINGPT 0.09 sets the operating point for carrier 1 to 0.09.</pre>

`RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:OPERATINGPT?`
returns the operating point for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:DISTAddition:AMPLifier:TURNon

Sets or returns the “Turn On” status of amplifier distortion settings for carrier <n>, where <n> is the carrier number.

Group	Generic signal: Distortion addition
Syntax	<code>RFXPress:GENPurpose:CARRIER<n>:DISTAddition:AMPLifier:TURNon</code> {<NR1> OFF ON} <code>RFXPress:GENPurpose:CARRIER<n>:DISTAddition:AMPLifier:</code> <code>TURNon?</code>
Arguments	Boolean
Returns	Boolean
Examples	<code>RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:TURNON 1</code> sets the amplifier distortion status for carrier 1 to On. <code>RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:TURNON?</code> returns the amplifier distortion status for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:FILTER

Sets or returns the filter for carrier <n>, where <n> is the carrier number.

Group	Generic signal: Setup
Syntax	<code>RFXPress:GENPurpose:CARRIER<n>:FILTER</code> <code>RFXPress:GENPurpose:CARRIER<n>:FILTER?</code>
Arguments	String The string values are: No Filter Rectangular

Raised Cosine
Root Raised Cosine
Gaussian(Dirac Delta)
Gaussian(rectangular)
Triangular
Edge
Half Sine
User-Defined

Returns String
The string values returned are:
No Filter
Rectangular
Raised Cosine
Root Raised Cosine
Gaussian(Dirac Delta)
Gaussian(rectangular)
Triangular
Edge
Half Sine
User-Defined

Examples RFXPRESS:GENPURPOSE:CARRIER1:FILTER "Raised Cosine" sets the carrier 1 filter to Raised Cosine.
RFXPRESS:GENPURPOSE:CARRIER1:FILTER? returns the carrier 1 filter.

RFXPress:GENPurpose:CARRier<n>:FREQuency

Sets the carrier frequency of carrier <n>, where <n> is the carrier number. This is applicable only if the signal format is IF/RF.

Group Generic signal: Setup

Syntax RFXPress:GENPurpose:CARRIER<n>:FREQUENCY
RFXPress:GENPurpose:CARRIER<n>:FREQUENCY?

Related Commands [RFXPress:COMPile:SIGFormat](#)

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER2:FREQUENCY 20e6 sets the frequency of carrier 2 to 20 MHz.

RFXPRESS:GENPURPOSE:CARRIER2:FREQUENCY? returns the frequency of carrier 2.

RFXPress:GENPurpose:CARRIER<n>:FSAMPLE:DATORg

Sets or returns the file sample data organization for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to File Samples.

Group Generic signal: Setup

Syntax RFXPress:GENPurpose:CARRIER<n>:FSAMPLE:DATORg
RFXPress:GENPurpose:CARRIER<n>:FSAMPLE:DATORg?

Related Commands [RFXPress:GENPurpose:CARRIER<n>:MODULATION](#)

Arguments IQ, QI, IONLY, QONLY

Returns IQ, QI, IONLY, QONLY

Examples RFXPRESS:GENPURPOSE:CARRIER1:FSAMPLE:DATORg IQ sets file sample data organization for carrier 1 to I/Q.

RFXPRESS:GENPURPOSE:CARRIER1:FSAMPLE:DATORg? returns the file sample data organization for carrier 1.

RFXPress:GENPurpose:CARRier<n>:FSAMple:FNAME

Sets or returns the File Samples file name for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to File Samples.

Group Generic signal: Setup

Syntax RFXPress:GENPurpose:CARRier<n>:FSAMple:FNAME
RFXPress:GENPurpose:CARRier<n>:FSAMple:FNAME?

Related Commands [RFXPress:GENPurpose:CARRier<n>:MODULATION](#)

Arguments String

Returns String

Examples RFXPRESS:GENPURPOSE:CARRIER1:FSAMPLE:FNAME "E:\Test.txt" sets the file sample file name for carrier 1 to "E:\Test.txt".

RFXPRESS:GENPURPOSE:CARRIER1:FSAMPLE:FNAME? returns the file sample for carrier 1.

RFXPress:GENPurpose:CARRier<n>:FSAMple:FORMAT

Sets or returns the file sample format for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to File Samples.

Group Generic signal: Setup

Syntax RFXPress:GENPurpose:CARRier<n>:FSAMple:FORMAT
RFXPress:GENPurpose:CARRier<n>:FSAMple:FORMAT?

Related Commands [RFXPress:GENPurpose:CARRier<n>:MODULATION](#)

Arguments ASCII, FLOAT, DOUBLE

Returns ASCII, FLOAT, DOUBLE

Examples `RFXPRESS:GENPURPOSE:CARRIER1:FSAMPLE:FORMAT DOUBLE` sets the file sample format for carrier 1 to Double.

`RFXPRESS:GENPURPOSE:CARRIER1:FSAMPLE:FORMAT?` returns the file sample format for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:FSAMple:MODE

Sets or returns the file sample mode for carrier <n>, where <n> is the carrier number.

Group Generic signal: Setup

Syntax `RFXPress:GENPurpose:CARRIER<n>:FSAMple:MODE`
`RFXPress:GENPurpose:CARRIER<n>:FSAMple:MODE?`

Related Commands [RFXPress:GENPurpose:CARRIER<n>:MODUlation](#)

Arguments INTERNAL, EXTERNAL

Returns INTERNAL, EXTERNAL

Examples `RFXPRESS:GENPURPOSE:CARRIER1:FSAMPLE:MODE EXTERNAL` sets the file sample mode for carrier 1 to External.

`RFXPRESS:GENPURPOSE:CARRIER1:FSAMPLE:MODE?` returns the file sample mode for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:FSAMple:SAMRate

Sets or returns the file sampling rate for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to File Samples.

Group Generic signal: Setup

Syntax `RFXPress:GENPurpose:CARRIER<n>:FSAMple:SAMRate`
`RFXPress:GENPurpose:CARRIER<n>:FSAMple:SAMRate?`

Related Commands [RFXPress:GENPurpose:CARRIER<n>:MODUlation](#)

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:FSAMPLE:SAMRATE 16 sets the file sampling rate for carrier 1 to 16 MHz.

RFXPRESS:GENPURPOSE:CARRIER1:FSAMPLE:SAMRATE? returns the file sampling rate for carrier 1.

RFXPress:GENPurpose:CARRier<n>:FSYMble:DATOrg

Sets or returns the file symbol data organization for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to File Symbols.

Group Generic signal: Setup

Syntax RFXPress:GENPurpose:CARRier<n>:FSYMble:DATOrg
RFXPress:GENPurpose:CARRier<n>:FSYMble:DATOrg?

Related Commands [RFXPress:GENPurpose:CARRier<n>:MODUlation](#)

Arguments IQ, QI, IONLY, QONLY

Returns IQ, QI, IONLY, QONLY

Examples RFXPRESS:GENPURPOSE:CARRIER1:FSYMBLE:DATORG QI sets the file symbol data organization for carrier 1 to Q/I.

RFXPRESS:GENPURPOSE:CARRIER1:FSYMBLE:DATORG? returns the file symbol data organization for carrier 1.

RFXPress:GENPurpose:CARRier<n>:FSYMble:FNAME

Sets or returns the file symbol file name for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to File Symbols.

Group	Generic signal: Setup
Syntax	RFXPress:GENPurpose:CARRIER<n>:FSYMBle:FNAME RFXPress:GENPurpose:CARRIER<n>:FSYMBle:FNAME?
Related Commands	RFXPress:GENPurpose:CARRIER<n>:MODUlation
Arguments	String
Returns	String
Examples	RFXPRESS:GENPURPOSE:CARRIER1:FSYMBLE:FNAME "E:\Test1.txt" sets the file symbol file name for carrier 1 to "E:\Test1.txt". RFXPRESS:GENPURPOSE:CARRIER1:FSYMBLE:FNAME? returns the file symbol file name for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:FSYMBle:FORMat

Sets or returns the file symbol format for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to File Symbols.

Group	Generic signal: Setup
Syntax	RFXPress:GENPurpose:CARRIER<n>:FSYMBle:FORMat RFXPress:GENPurpose:CARRIER<n>:FSYMBle:FORMat?
Related Commands	RFXPress:GENPurpose:CARRIER<n>:MODUlation
Arguments	ASCIi, FLOAt, DOUBle
Returns	ASCIi, FLOAt, DOUBle
Examples	RFXPRESS:GENPURPOSE:CARRIER1:FSYMBLE:FORMAT ASCIi sets the file symbol format for carrier 1 to ascii. RFXPRESS:GENPURPOSE:CARRIER1:FSYMBLE:FORMAT? returns the file symbol format for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:HOPPING:HOPFREQ:ADD (No Query Form)

Adds the hop frequency in the hopping table/list for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This command cannot be used when the hop pattern selected is Pseudo-Random, Range.

Group Generic signal: Hopping

Syntax RFXPress:GENPurpose:CARRIER<n>:HOPPING:HOPFREQ:ADD

Related Commands [RFXPress:GENPurpose:CARRIER<n>:HOPPING:TURNON](#)

Examples RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:ADD adds a hop entry in hopping table/list for the carrier 1.

RFXPress:GENPurpose:CARRIER<n>:HOPPING:HOPFREQ:CHSPACING

Sets or returns the channel spacing in hopping for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This parameter can be set only when the hop pattern selected is “Pseudo-Random, Range” or “Pseudo-Random, Avoid List”.

Group Generic signal: Hopping

Syntax RFXPress:GENPurpose:CARRIER<n>:HOPPING:HOPFREQ:CHSPACING
RFXPress:GENPurpose:CARRIER<n>:HOPPING:HOPFREQ:CHSPACING?

Related Commands [RFXPress:GENPurpose:CARRIER<n>:HOPPING:TURNON](#)
[RFXPress:GENPurpose:CARRIER<n>:HOPPING:HOPFREQ:PATTERN](#)

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:CHSPACING 40e6 sets the hop channel spacing in hopping for carrier 1 to 40 MHz .

RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:CHSPACING? returns the channel spacing in hopping for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:HOPPING:HOPFREQ:DELETE (No Query Form)

Deletes the hop/frequency entries in the hopping table/list for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This command cannot be used when the hop pattern selected is “Pseudo-Random, Range”.

Group Generic signal: Hopping

Syntax RFXPress:GENPurpose:CARRIER<n>:HOPPING:HOPFREQ:DELETE

Related Commands [RFXPress:GENPurpose:CARRIER<n>:HOPPING:TURNON](#)

Arguments Integer

Examples RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:DELETE 5 deletes the hop entry 5 in hopping table/list for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:HOPPING:HOPFREQ:FREQUENCY

Sets or returns the frequency in the hopping table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This parameter can be accessed only when the hop frequency mode is Absolute. This parameter is not accessible when the hop pattern is set as “Pseudo-Random, Range”.

Group Generic signal: Hopping

Syntax RFXPress:GENPurpose:CARRIER<n>:HOPPING:HOPFREQ:FREQUENCY
RFXPress:GENPurpose:CARRIER<n>:HOPPING:HOPFREQ:FREQUENCY?

Related Commands [RFXPress:GENPurpose:CARRIER<n>:HOPPING:TURNON](#)

[RFXPress:GENPurpose:CARRIER<n>:HOPPING:HOPFREQ:FRQMODE](#)

[RFXPress:GENPurpose:CARRIER<n>:HOPPING:HOPFREQ:PATTERN](#)

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:FREQUENCY 12e6
sets the frequency in the hopping table for carrier 1 to 12 MHz.

RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:FREQUENCY? returns
the frequency in the hopping table for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:FRQMode

Sets or returns the frequency mode in hopping for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. The frequency mode is dependent on the hop pattern and the signal format mode. The frequency mode cannot be set to Offset for “Pseudo-Random, List” and “Pseudo-Random, Avoid List” when the signal format is IF/RF. The frequency mode cannot be set to Absolute for “Pseudo-Random, List” and “Pseudo-Random, Avoid List” when the signal format is IQ This command cannot be used when the hop pattern selected is “Pseudo-Random, Range”.

Group Generic signal: Hopping

Syntax RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:FRQMode
RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:FRQMode?

Related Commands [RFXPress:GENPurpose:CARRIER<n>:HOPping:TURNon](#)
[RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:PATtern](#)
[RFXPress:COMPile:SIGFormat](#)

Arguments ABSolute, OFFSet

Returns ABSolute, OFFSet

Examples RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:FRQMODE
ABSOLUTE sets the frequency mode in hopping for carrier 1 to Absolute.

RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:FRQMODE? returns
the frequency mode in hopping for carrier 1.

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:FRQOffset

Sets or returns the frequency offset in hopping for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This parameter can be accessed only when the hop frequency mode is offset. This parameter is not accessible when the hop pattern is set as “Pseudo-Random, Range”.

Group Generic signal: Hopping

Syntax RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:FRQOffset
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:FRQOffset?

Related Commands [RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNOn](#)
[RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:FRQMode](#)
[RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PATtern](#)

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:FRQOFFSET 12e6
sets the frequency offset in the hopping table for carrier 1 to 12 MHz.

RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:FRQOFFSET? returns the frequency offset in the hopping table for carrier 1.

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime

Sets or returns the “time in hop” in the hopping table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This parameter can be accessed only when the hop pattern set is “Custom Table” and hop time method is set as “Time in hop, variable”.

Group Generic signal: Hopping

Syntax RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime?

Related Commands [RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNon](#)
[RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PATtern](#)
[RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime:METHOD](#)

Arguments Real

Returns Real

Examples `RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:HOPTIME 23` sets the “time in hop” in the hopping table for carrier 1 to 23 ms.
`RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:HOPTIME?` returns the “time in hop” in the hopping table for carrier 1.

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime:HOPPPersecond

Sets or returns the hops per second for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This parameter can be accessed only when the hop time method set is "hops per second, fixed".

Group Generic signal: Hopping

Syntax `RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime:HOPPPersecond`
`RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime:HOPPPersecond?`

Related Commands [RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNon](#)
[RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime:METHOD](#)

Arguments Real

Returns Real

Examples `RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:HOPTIME:HOPPERSECOND 2000` sets the hops per second for carrier 1 to 2000.

RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:HOPTIME:HOPPERSECOND?
returns the hops per second for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:HOPTime:METHOD

Sets or returns the hopping time method for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. The hop time method is dependent on the hop pattern selected. Only "Symbols per hop, fixed" and "Hops per second, fixed" are valid when the hop pattern set is other than "Custom Table".

Group Generic signal: Hopping

Syntax RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:HOPTime:
METHOD
RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:HOPTime:
METHOD?

Related Commands [RFXPress:GENPurpose:CARRIER<n>:HOPping:TURNon](#)
[RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:PATtern](#)

Arguments String
The string values are:
Symbols per hop, fixed
Hops per second, fixed
Symbol Index, each hop
Time in hop, variable

Returns String
The string values returned are:
Symbols per hop, fixed
Hops per second, fixed
Symbol Index, each hop
Time in hop, variable

Examples `RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:HOPTIME:METHOD`
 "Symbols per hop, fixed" sets the hop time method for carrier 1 to
 "Symbols per hop, fixed".

`RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:HOPTIME:METHOD?`
 returns the hop time method for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:HOPTime:SYMPerhop

Sets or returns the symbols per hop for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This parameter can be accessed only when the hop time method set is "Symbols per hop, fixed".

Group Generic signal: Hopping

Syntax `RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:HOPTime:`
 `SYMPerhop`
 `RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:HOPTime:`
 `SYMPerhop?`

Related Commands [RFXPress:GENPurpose:CARRIER<n>:HOPping:TURNon](#)
 [RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:HOPTime:METHOD](#)

Arguments Integer

Returns Integer

Examples `RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:HOPTIME:SYMPERHOP`
 200 sets the symbols per hop for carrier 1 to 200.

`RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:HOPTIME:SYMPERHOP?`
 returns the symbols per hop for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:MAXFreq

Sets or returns the hop maximum frequency for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This parameter can be set only when the hop pattern selected is "Pseudo-Random, Range" or "Pseudo-Random, Avoid List".

Group	Generic signal: Hopping
Syntax	RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:MAXFreq RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:MAXFreq?
Related Commands	RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNOn RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PATtern
Arguments	Real
Returns	Real
Examples	RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:MAXFREQ 100e6 sets the hop maximum frequency for carrier 1 to 100 MHz . RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:MAXFREQ? returns the hop maximum frequency for carrier 1.

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:MINFreq

Sets or returns the hop minimum frequency for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This parameter can be set only when the hop pattern selected is “Pseudo-Random, Range” or “Pseudo-Random, Avoid List”.

Group	Generic signal: Hopping
Syntax	RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:MINFreq RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:MINFreq?
Related Commands	RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNOn RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PATtern
Arguments	Real
Returns	Real

Examples `RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:MINFREQ 20e6` sets the hop minimum frequency for carrier 1 to 20 MHz .

`RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:MINFREQ?` returns the hop minimum frequency for carrier 1.

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PATtern

Sets or returns the hop frequency pattern for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>.

Group Generic signal: Hopping

Syntax `RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PATtern`
`RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PATtern?`

Related Commands [RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNon](#)
[RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PATtern](#)

Arguments String

The string values are:

- Custom Table
- Pseudo-Random, Range
- Pseudo-Random, List
- Pseudo-Random, Avoid List

Returns String

The string values returned are:

- Custom Table
- Pseudo-Random, Range
- Pseudo-Random, List
- Pseudo-Random, Avoid List

Examples `RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:PATTERN "Custom Table"` sets the hop frequency pattern for carrier 1 to "Custom Table".

RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:PATTERN? returns the hop frequency pattern for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:PRBS

Sets or returns the PRBS type in hopping for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. You cannot set this parameter when the hop pattern selected is Custom Table.

Group Generic signal: Hopping

Syntax RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:PRBS
RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:PRBS?

Related Commands [RFXPress:GENPurpose:CARRIER<n>:HOPping:TURNon](#)
[RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:PATtern](#)

Arguments String
The string values are:
7
9
15
16
20
21
23
User-defined

Returns String
The string values returned are:
7
9
15
16

20
 21
 23
 User-defined

Examples RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:PRBS "7" sets the PRBS type in the hopping for carrier 1 to PRBS 7.
 RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:PRBS? returns the PRBS type in hopping for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:PRBS:USRDefined:POLYnomial

Sets or returns the polynomial for user-defined PRBS in hopping for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. You cannot set this parameter when the hop pattern selected is Custom Table. You can set this parameter only when the PRBS type is User Defined.

Group Generic signal: Hopping

Syntax RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:PRBS:USRDefined:POLYnomial
 RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:PRBS:USRDefined:POLYnomial?

Related Commands [RFXPress:GENPurpose:CARRIER<n>:HOPping:TURNon](#)
[RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:PATtern](#)
[RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:PRBS](#)

Arguments string

Returns string

Examples RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:PRBS:USRDEFINED:POLYNOMIAL "X15+X14+1" sets the polynomial for user-defined PRBS in hopping for carrier 1 to "X15+X14+1".

RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:PRBS:USRDEFINED:POLYNOMIAL? returns the polynomial for user-defined PRBS in hopping for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:PRBS:USRDefined:SREGister

Sets or returns the shift register value for user-defined PRBS in hopping for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. You cannot set this parameter when the hop pattern selected is Custom Table. You can set this parameter only when the PRBS type is User Defined.

Group Generic signal: Hopping

Syntax RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:PRBS:USRDefined:SREGister
RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:PRBS:USRDefined:SREGister?

Related Commands [RFXPress:GENPurpose:CARRIER<n>:HOPping:TURNon](#)
[RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:PATtern](#)
[RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:PRBS](#)

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:PRBS:USRDEFINED:SREGISTER 10 sets the shift register value for user-defined PRBS in hopping for carrier 1 to 10.

RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:PRBS:USRDEFINED:SREGISTER? returns the shift register value for user-defined PRBS in hopping for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:RELAmplitude

Sets or returns the relative amplitude in the hopping table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping

is enabled for carrier <n>. This parameter can be accessed only when the hop pattern set is “Custom Table”.

Group	Generic signal: Hopping
Syntax	RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:RELAmplitude RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:RELAmplitude?
Related Commands	RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNOn RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PATtern
Arguments	Real
Returns	Real
Examples	RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:RELAMPLITUDE -12 sets the relative amplitude in the hopping table for carrier 1 to -12 dB. RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:RELAMPLITUDE? returns the relative amplitude in the hopping table for carrier 1.

RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:SELFreqidx

Sets or returns the frequency index selection in hopping for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This parameter can be accessed only when the hop pattern set is other than “Custom Table”.

Group	Generic signal: Hopping
Syntax	RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:SELFreqidx RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:SELFreqidx?
Related Commands	RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNOn RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PATtern
Arguments	Integer

Returns Integer

Examples `RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:SELFREQIDX 3` sets the frequency index selection in hopping for carrier 1 to 3.

`RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:SELFREQIDX?` returns the frequency index selection in hopping for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:HOPPING:HOPFREQ:SELHopIdx

Sets or returns the hop index selection in hopping for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This parameter can be accessed only when the hop pattern set is “Custom Table”.

Group Generic signal: Hopping

Syntax `RFXPress:GENPurpose:CARRIER<n>:HOPPING:HOPFREQ:SELHopIdx`
`RFXPress:GENPurpose:CARRIER<n>:HOPPING:HOPFREQ:SELHopIdx?`

Related Commands [RFXPress:GENPurpose:CARRIER<n>:HOPPING:TURNOn](#)
[RFXPress:GENPurpose:CARRIER<n>:HOPPING:HOPFREQ:PATtern](#)

Arguments Integer

Returns Integer

Examples `RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:SELHOPIDX 5` sets the hop index selection in hopping for carrier 1 to 5.

`RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:SELHOPIDX?` returns the hop index selection in hopping for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:HOPPING:HOPFREQ:STSYmbol

Sets or returns the start symbol in the hopping table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This parameter can be accessed only when the hop pattern set is “Custom Table” and hop time method is set as “Symbol Index, each hop”.

Group	Generic signal: Hopping
Syntax	RFXPress:GENPurpose:CARRier<n>:HOPping:HOPFreq:STSYmbol RFXPress:GENPurpose:CARRier<n>:HOPping:HOPFreq:STSYmbol?
Related Commands	RFXPress:GENPurpose:CARRier<n>:HOPping:TURNon RFXPress:GENPurpose:CARRier<n>:HOPping:HOPFreq:PATTern RFXPress:GENPurpose:CARRier<n>:HOPping:HOPFreq:HOPTime:METHOD
Arguments	Integer
Returns	Integer
Examples	RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:STSYMBOL 101 sets the start symbol in the hopping table for carrier 1 to 101. RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:STSYMBOL? returns the start symbol in the hopping table for carrier 1.

RFXPress:GENPurpose:CARRier<n>:HOPping:TURNon

Sets or returns the random hopping “Turn On” status for carrier <n>, where <n> is the carrier number.

Group	Generic signal: Hopping
Syntax	RFXPress:GENPurpose:CARRier<n>:HOPping:TURNon {<NR1> OFF ON} RFXPress:GENPurpose:CARRier<n>:HOPping:TURNon?
Arguments	Boolean
Returns	Boolean
Examples	RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:TURNON 1 sets the random hopping status for carrier 1 to On. RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:TURNON? returns the random hopping status for carrier 1.

RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:BANDwidth

Sets or returns the additive noise bandwidth value for carrier <n>, where <n> is the carrier number.

Group Generic signal: Interference addition

Syntax RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:
BANDwidth
RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:
BANDwidth?

Related Commands [RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:TURNOn](#)

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:ADDITNOISE:BANDWIDTH
1 sets the additive noise bandwidth value for carrier 1 to 1 Hz.

RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:ADDITNOISE:BANDWIDTH?
returns the additive noise bandwidth value for carrier 1.

RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:EBNValue

Sets or returns the additive noise Eb/No value for carrier <n>, where <n> is the carrier number.

Group Generic signal: Interference addition

Syntax RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:
EBNValue
RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:
EBNValue?

Related Commands [RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:TURNOn](#)
[RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:INPUtselect](#)

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:ADDITNOISE:EBNVALUE
1 sets the additive noise Eb/No value for carrier 1 to 1 dB.

RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:ADDITNOISE:EBNVALUE?
returns the additive noise Eb/No value for carrier 1.

RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:INPUtselect

Sets or returns the of additive noise input mode for carrier <n>, where <n> is the carrier number.

Group Generic signal: Interference addition

Syntax RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:
INPUtselect
RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:
INPUtselect?

Related Commands [RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:TURNon](#)

Arguments SNR, EBNO

Returns SNR, EBNO

Examples RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:ADDITNOISE:INPUTSELECT
SNR sets the status of carrier 1 Additive Noise input select to SNR.

RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:ADDITNOISE:INPUTSELECT?
returns the status of Additive Noise input select for carrier 1.

RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:SNRValue

Sets or returns the additive noise SNR value for carrier <n>, where <n> is the carrier number.

Group	Generic signal: Interference addition
Syntax	RFXPress:GENPurpose:CARRIER<n>:INTFaddition:ADDItnoise:SNRValue RFXPress:GENPurpose:CARRIER<n>:INTFaddition:ADDItnoise:SNRValue?
Related Commands	RFXPress:GENPurpose:CARRIER<n>:INTFaddition:ADDItnoise:TURNOn RFXPress:GENPurpose:CARRIER<n>:INTFaddition:ADDItnoise:INPUtselect
Arguments	Real
Returns	Real
Examples	RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:ADDITNOISE:SNRVALUE 1 sets the additive noise SNR value for carrier 1 to 1 dB. RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:ADDITNOISE:SNRVALUE? returns the additive noise SNR value for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:INTFaddition:ADDItnoise:TURNOn

Sets or returns the “Turn On” status of additive noise for carrier <n>, where <n> is the carrier number.

Group	Generic signal: Interference addition
Syntax	RFXPress:GENPurpose:CARRIER<n>:INTFaddition:ADDItnoise:TURNOn {<NR1> OFF ON} RFXPress:GENPurpose:CARRIER<n>:INTFaddition:ADDItnoise:TURNOn?
Arguments	Boolean
Returns	Boolean
Examples	RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:ADDITNOISE:TURNON 1 sets the status of additive noise for carrier 1 to “On”.

RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:ADDITNOISE:TURNON?
 returns the status of additive noise for carrier 1.

RFXPress:GENPurpose:CARRier<n>:INTFaddition:OFFSet:FREQoffset

Sets or returns the frequency offset value for carrier <n>, where <n> is the carrier number.

Group Generic signal: Interference addition

Syntax RFXPress:GENPurpose:CARRier<n>:INTFaddition:OFFSet:
 FREQoffset
 RFXPress:GENPurpose:CARRier<n>:INTFaddition:OFFSet:
 FREQoffset?

Related Commands [RFXPress:GENPurpose:CARRier<n>:INTFaddition:OFFSet:TURNon](#)

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:OFFSET:FREQOFFSET
 1 sets the frequency offset value for carrier 1 to 1 Hz.
 RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:OFFSET:FREQOFFSET?
 returns the frequency offset value for carrier 1.

RFXPress:GENPurpose:CARRier<n>:INTFaddition:OFFSet:TURNon

Sets or returns the “Turn On” status of offset for carrier <n>, where <n> is the carrier number.

Group Generic signal: Interference addition

Syntax RFXPress:GENPurpose:CARRier<n>:INTFaddition:OFFSet:TURNon
 {<NR1>|OFF|ON}
 RFXPress:GENPurpose:CARRier<n>:INTFaddition:OFFSet:TURNon?

Arguments Boolean

Returns Boolean

Examples RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:OFFSET:TURNON 1 sets the status of offset for carrier 1 to “On”.

RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:OFFSET:TURNON?
returns the status of offset for carrier 1.

RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:IWAVEform

Sets or returns the I waveform name (signal addition via software) for carrier <n>, where <n> is the carrier number.

Group Generic signal: Interference addition

Syntax RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:
IWAVEform
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:
IWAVEform?

Related Commands [RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:TURNon](#)
[RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:VIAIntf](#)
[RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:SIGFormat](#)

Arguments String

Returns String

Examples RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SIGNALADD:IWAVEFORM
"waveform_I" sets the I waveform name for carrier 1 to Waveform_I.
RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SIGNALADD:IWAVEFORM?
returns the I waveform name for carrier 1.

RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:QWAVEform

Sets or returns the Q waveform name (signal addition via software) for carrier <n>, where <n> is the carrier number.

Group Generic signal: Interference addition

Syntax RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:
QWAVEform
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:
QWAVEform?

Related Commands [RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:TURNon](#)

[RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:VIAIntf](#)

[RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:SIGFormat](#)

Arguments string

Returns string

Examples `RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SIGNALADD:QWAVEFORM`
 “waveform_Q” sets the Q waveform name for carrier 1 to Waveform_Q.
`RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SIGNALADD:QWAVEFORM?`
 returns the Q waveform name for carrier 1.

RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:RFWAVEform

Sets or returns the RF waveform file name (signal addition via software) for carrier <n>, where <n> is the carrier number.

Group Generic signal: Interference addition

Syntax `RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:`
`RFWAVEform`
`RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:`
`RFWAVEform?`

Related Commands [RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:TURNOn](#)
[RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:VIAIntf](#)
[RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:SIGFormat](#)

Arguments string

Returns string

Examples `RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SIGNALADD:RFWAVEFORM`
 “wavefrom_RF” sets the RF waveform name for carrier 1 to Waveform_RF.
`RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SIGNALADD:RFWAVEFORM?`
 returns the RF waveform name for carrier 1.

RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNAladd:SIGFormat

Sets or returns the signal format selected for carrier <n>, where <n> is the carrier number.

Group Generic signal: Interference addition

Syntax RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNAladd:
SIGFormat
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNAladd:
SIGFormat?

Related Commands [RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNAladd:TURNOn](#)

Arguments IQ, IFRF

Returns IQ, IFRF

Examples RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SIGNALADD:SIGFORMAT
IQ sets the status of format selection for carrier 1 to IQ.
RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SIGNALADD:SIGFORMAT?
returns the status of signal addition format selection for carrier 1.

RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNAladd:TURNOn

Sets or returns the “Turn On” status of signal addition for carrier <n>, where <n> is the carrier number.

Group Generic signal: Interference addition

Syntax RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNAladd:TURNOn
{<NR1>|OFF|ON}
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNAladd:
TURNOn?

Arguments Boolean

Returns Boolean

Examples `RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SIGNALADD:TURNON 1`
sets the status of signal addition for carrier 1 to “On”.

`RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SIGNALADD:TURNON?`
returns the status of signal addition for carrier 1.

RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:VIAIntf

Sets or returns the interference method selection for carrier <n>, where <n> is the carrier number.

Group Generic signal: Interference addition

Syntax `RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:
VIAIntf`
`RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:
VIAIntf?`

Related Commands [RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:TURNon](#)

Arguments SOFTWARE, HARDWARE

Returns SOFTWARE, HARDWARE

Examples `RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SIGNALADD:VIAINTF
SOFTWARE` sets the status of signal addition interference method for carrier 1 to Software.

`RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SIGNALADD:VIAINTF?`
returns the status of signal addition interference method for carrier 1.

RFXPress:GENPurpose:CARRier<n>:INTFaddition:SINUintf:CARRoffset

Sets or returns the sinusoidal interference carrier offset value for carrier <n>, where <n> is the carrier number.

Group Generic signal: Interference addition

Syntax `RFXPress:GENPurpose:CARRier<n>:INTFaddition:SINUintf:
CARRoffset`

RFXPress:GENPurpose:CARRier<n>:INTFaddition:SINUintf:CARROffset?

Related Commands [RFXPress:GENPurpose:CARRier<n>:INTFaddition:SINUintf:TURNOn](#)

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SINUINTF:CARROFFSET 1 sets the sinusoidal interference carrier offset value for carrier 1 to 1 Hz.

RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SINUINTF:CARROFFSET? returns the sinusoidal interference carrier offset value for carrier 1.

RFXPress:GENPurpose:CARRier<n>:INTFaddition:SINUintf:CIVALue

Sets or returns the sinusoidal interference C/I value for carrier <n>, where <n> is the carrier number.

Group Generic signal: Interference addition

Syntax RFXPress:GENPurpose:CARRier<n>:INTFaddition:SINUintf:CIVALue
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SINUintf:CIVALue?

Related Commands [RFXPress:GENPurpose:CARRier<n>:INTFaddition:SINUintf:TURNOn](#)

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SINUINTF:CIVALUE 1 sets the sinusoidal interference C/I value for carrier 1 to 1 dB.

RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SINUINTF:CIVALUE? returns the sinusoidal interference C/I value for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:INTFaddition:SINUintf:TURNon

Sets or returns the “Turn On” status of sinusoidal interference for carrier <n>, where <n> is the carrier number.

Group	Generic signal: Interference addition
Syntax	RFXPress:GENPurpose:CARRIER<n>:INTFaddition:SINUintf:TURNon {<NR1> OFF ON} RFXPress:GENPurpose:CARRIER<n>:INTFaddition:SINUintf:TURNon?
Arguments	Boolean
Returns	Boolean
Examples	RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SINUINTF:TURNON 1 sets the status of sinusoidal interference for carrier 1 to “On”. RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SINUINTF:TURNON? returns the status of sinusoidal interference for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:IQImpairment:CARRleakage:IVALue

Sets or returns the I value for carrier <n>, where <n> is the carrier number.

Group	Generic signal: I/Q impairments
Syntax	RFXPress:GENPurpose:CARRIER<n>:IQImpairment:CARRleakage: IVALue RFXPress:GENPurpose:CARRIER<n>:IQImpairment:CARRleakage: IVALue?
Related Commands	RFXPress:GENPurpose:CARRIER<n>:IQImpairment:CARRleakage:TURNon
Arguments	Real
Returns	Real

Examples `RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:CARRLEAKAGE:IVALUE 0.01` sets the I value degree for carrier 1 to 0.01%.

`RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:CARRLEAKAGE:IVALUE?` returns the I value for carrier 1.

RFXPress:GENPurpose:CARRier<n>:IQIMpairment:CARRleakage:QVALue

Sets or returns the Q value for carrier <n>, where <n> is the carrier number.

Group Generic signal: I/Q impairments

Syntax `RFXPress:GENPurpose:CARRier<n>:IQIMpairment:CARRleakage:QVALue`
 `RFXPress:GENPurpose:CARRier<n>:IQIMpairment:CARRleakage:QVALue?`

Related Commands [RFXPress:GENPurpose:CARRier<n>:IQIMpairment:CARRleakage:TURNon](#)

Arguments Real

Returns Real

Examples `RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:CARRLEAKAGE:QVALUE 0.01` sets the Q value degree for carrier 1 to 0.01%.

`RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:CARRLEAKAGE:QVALUE?` returns the Q value for carrier 1.

RFXPress:GENPurpose:CARRier<n>:IQIMpairment:CARRleakage:TURNon

Sets or returns the “Turn On” status of carrier leakage for carrier <n>, where <n> is the carrier number.

Group Generic signal: I/Q impairments

Syntax `RFXPress:GENPurpose:CARRier<n>:IQIMpairment:CARRleakage:TURNon {<NR1>|OFF|ON}`
 `RFXPress:GENPurpose:CARRier<n>:IQIMpairment:CARRleakage:TURNon?`

Arguments	Boolean
Returns	Boolean
Examples	<p>RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:CARRLEAKAGE:TURNON 1 sets the Carrier Leakage status for carrier 1 to On.</p> <p>RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:CARRLEAKAGE:TURNON? returns the Carrier Leakage status for carrier 1.</p>

RFXPress:GENPurpose:CARRIER<n>:IQImpairment:HWSKew:CH1Val

Sets or returns the channel 1 value for carrier <n>, where <n> is the carrier number.

Group	Generic signal: I/Q impairments
Syntax	<p>RFXPress:GENPurpose:CARRIER<n>:IQImpairment:HWSKew:CH1Val</p> <p>RFXPress:GENPurpose:CARRIER<n>:IQImpairment:HWSKew:CH1Val?</p>
Related Commands	RFXPress:GENPurpose:CARRIER<n>:IQImpairment:HWSKew:TURNON
Arguments	Real
Returns	Real
Examples	<p>RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:HWSKEW:CH1VAL 0.1 sets the channel 1 value for carrier 1 to 0.1 s.</p> <p>RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:HWSKEW:CH1VAL? returns the channel 1 value for carrier 1.</p>

RFXPress:GENPurpose:CARRIER<n>:IQImpairment:HWSKew:CH2Val

Sets or returns the channel 2 value for carrier <n>, where <n> is the carrier number.

Group	Generic signal: I/Q impairments
Syntax	<p>RFXPress:GENPurpose:CARRIER<n>:IQImpairment:HWSKew:CH2Val</p> <p>RFXPress:GENPurpose:CARRIER<n>:IQImpairment:HWSKew:CH2Val?</p>

Related Commands [RFXPress:GENPurpose:CARRier<n>:IQIMpairment:HWSKew:TURNon](#)

Arguments Real

Returns Real

Examples `RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:HWSKEW:CH2VAL 0.1`
 sets the channel 2 value for carrier 1 to 0.1%.

`RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:HWSKEW:CH2VAL?`
 returns the channel 2 value for carrier 1.

RFXPress:GENPurpose:CARRier<n>:IQIMpairment:HWSKew:CH3Val

Sets or returns the channel 3 value for carrier <n>, where <n> is the carrier number.

Group Generic signal: I/Q impairments

Syntax `RFXPress:GENPurpose:CARRier<n>:IQIMpairment:HWSKew:CH3Val`
`RFXPress:GENPurpose:CARRier<n>:IQIMpairment:HWSKew:CH3Val?`

Related Commands [RFXPress:GENPurpose:CARRier<n>:IQIMpairment:HWSKew:TURNon](#)

Arguments Real

Returns Real

Examples `RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:HWSKEW:CH3VAL 0.1`
 sets the channel 3 value for carrier 1 to 0.1%.

`RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:HWSKEW:CH3VAL?`
 returns the channel 3 value for carrier 1.

RFXPress:GENPurpose:CARRier<n>:IQIMpairment:HWSKew:CH4Val

Sets or returns the channel 4 value for carrier <n>, where <n> is the carrier number.

Group Generic signal: I/Q impairments

Syntax	<code>RFXPress:GENPurpose:CARRIER<n>:IQImpairment:HWSKew:CH4Val</code> <code>RFXPress:GENPurpose:CARRIER<n>:IQImpairment:HWSKew:CH4Val?</code>
Related Commands	RFXPress:GENPurpose:CARRIER<n>:IQImpairment:HWSKew:TURNOn
Arguments	Real
Returns	Real
Examples	<code>RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:HWSKEW:CH4VAL 0.1</code> sets the channel 4 value for carrier 1 to 0.1%. <code>RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:HWSKEW:CH4VAL?</code> returns the channel 4 value for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:IQImpairment:HWSKew:TURNOn

Sets or returns the “Turn On” status of hardware skew for carrier <n>, where <n> is the carrier number.

Group	Generic signal: I/Q impairments
Syntax	<code>RFXPress:GENPurpose:CARRIER<n>:IQImpairment:HWSKew:TURNOn</code> <code>{<NR1> OFF ON}</code> <code>RFXPress:GENPurpose:CARRIER<n>:IQImpairment:HWSKew:TURNOn?</code>
Arguments	Boolean
Returns	Boolean
Examples	<code>RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:HWSKEW:TURNON 1</code> sets the hardware skew status for carrier 1 to On. <code>RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:HWSKEW:TURNON?</code> returns the hardware skew status for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:IQImpairment:IQIMbalance:IQIMbalance

Sets or returns the IQ imbalance value for carrier <n>, where <n> is the carrier number.

Group	Generic signal: I/Q impairments
Syntax	RFXPress:GENPurpose:CARRier<n>:IQImpairment:IQIMbalance: IQIMbalance RFXPress:GENPurpose:CARRier<n>:IQImpairment:IQIMbalance: IQIMbalance?
Related Commands	RFXPress:GENPurpose:CARRier<n>:IQImpairment:IQIMbalance:TURNon
Arguments	Real
Returns	Real
Examples	RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:IQIMBALANCE:IQIMBALANCE 0.09 sets the IQ imbalance value for carrier 1 to 0.09%. RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:IQIMBALANCE:IQIMBALANCE? returns the IQ imbalance value for carrier 1.

RFXPress:GENPurpose:CARRier<n>:IQImpairment:IQIMbalance:TURNon

Sets or returns the “Turn On” status of IQ Imbalance for carrier <n>, where <n> is the carrier number.

Group	Generic signal: I/Q impairments
Syntax	RFXPress:GENPurpose:CARRier<n>:IQImpairment:IQIMbalance: TURNon {<NR1> OFF ON} RFXPress:GENPurpose:CARRier<n>:IQImpairment:IQIMbalance: TURNon?
Arguments	Boolean
Returns	Boolean
Examples	RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:IQIMBALANCE:TURNON 1 sets the IQ imbalance status for carrier 1 to On. RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:IQIMBALANCE:TURNON? returns the IQ imbalance turn on status for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:IQImpairment:IQSWap:TURNOn

Sets or returns the “Turn On” status of IQ Swap for carrier <n>, where <n> is the carrier number.

Group	Generic signal: I/Q impairments
Syntax	RFXPress:GENPurpose:CARRIER<n>:IQImpairment:IQSWap:TURNOn {<NR1> OFF ON} RFXPress:GENPurpose:CARRIER<n>:IQImpairment:IQSWap:TURNOn?
Arguments	Boolean
Returns	Boolean
Examples	RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:IQSWAP:TURNON 1 sets the IQ swap status for carrier 1 to On. RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:IQSWAP:TURNON? returns the IQ swap turn on status for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:IQImpairment:NONLindist:AMA2k

Sets or returns the AMAM2k value for carrier <n>, where <n> is the carrier number.

Group	Generic signal: I/Q impairments
Syntax	RFXPress:GENPurpose:CARRIER<n>:IQImpairment:NONLindist:AMA2k RFXPress:GENPurpose:CARRIER<n>:IQImpairment:NONLindist:AMA2k?
Related Commands	RFXPress:GENPurpose:CARRIER<n>:IQImpairment:NONLindist:TURNOn
Arguments	Real
Returns	Real

Examples `RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:NONLINDIST:AMA2K 0.1` sets the AMAM2k value degree for carrier 1 to 0.1 dB.

`RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:NONLINDIST:AMA2K?` returns the AMAM2k value for carrier 1.

RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:AMA3k

Sets or returns the AMAM3k value for carrier <n>, where <n> is the carrier number.

Group Generic signal: I/Q impairments

Syntax `RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:AMA3k`
`RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:AMA3k?`

Related Commands [RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:TURNon](#)

Arguments Real

Returns Real

Examples `RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:NONLINDIST:AMA3K 0.1` sets the AMAM3k value degree for carrier 1 to 0.1 dB.

`RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:NONLINDIST:AMA3K?` returns the AMAM3k value for carrier 1.

RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:AMP2k

Sets or returns the AMPM2k value for carrier <n>, where <n> is the carrier number.

Group Generic signal: I/Q impairments

Syntax `RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:AMP2k`
`RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:AMP2k?`

Related Commands [RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:TURNon](#)

Arguments real

Returns real

Examples `RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:NONLINDIST:AMP2K 0.1` sets the AMPM2k value degree for carrier 1 to 0.1 degrees.

`RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:NONLINDIST:AMP2K?` returns the AMPM2k value for carrier 1.

RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:AMP3k

Sets or returns the AMPM3k value for carrier <n>, where <n> is the carrier number.

Group Generic signal: I/Q impairments

Syntax `RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:AMP3k`
`RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:AMP3k?`

Related Commands [RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:TURNon](#)

Arguments real

Returns real

Examples `RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:NONLINDIST:AMP3K 0.1` sets the AMPM3k value degree for carrier 1 to 0.1 degrees.

`RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:NONLINDIST:AMP3K?` returns the AMPM3k value for carrier 1.

RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:TURNon

Sets or returns the “Turn On” status of nonlinear distortion for carrier <n>, where <n> is the carrier number.

Group	Generic signal: I/Q impairments
Syntax	RFXPress:GENPurpose:CARRier<n>:IQImpairment:NONLindist: TURNon {<NR1> OFF ON} RFXPress:GENPurpose:CARRier<n>:IQImpairment:NONLindist: TURNon?
Arguments	Boolean
Returns	Boolean
Examples	RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:NONLINDIST:TURNON 1 sets the nonlinear distortion status for carrier 1 to On. RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:NONLINDIST:TURNON? returns the nonlinear distortion status for carrier 1.

RFXPress:GENPurpose:CARRier<n>:IQImpairment:QUADError:DEGRees

Sets or returns the quadrature error value for carrier <n>, where <n> is the carrier number.

Group	Generic signal: I/Q impairments
Syntax	RFXPress:GENPurpose:CARRier<n>:IQImpairment:QUADError: DEGRees RFXPress:GENPurpose:CARRier<n>:IQImpairment:QUADError: DEGRees?
Related Commands	RFXPress:GENPurpose:CARRier<n>:IQImpairment:QUADError:TURNon
Arguments	Real
Returns	Real
Examples	RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:QUADERROR:DEGREES 0.01 sets the quadrature error degree for carrier 1 to 0.01 degrees. RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:QUADERROR:DEGREES? returns the quadrature error for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:IQImpairment:QUADError:TURNOn

Sets or returns the “Turn On” status of quadrature error for carrier <n>, where <n> is the carrier number.

Group	Generic signal: I/Q impairments
Syntax	RFXPress:GENPurpose:CARRIER<n>:IQImpairment:QUADError:TURNOn {<NR1> OFF ON} RFXPress:GENPurpose:CARRIER<n>:IQImpairment:QUADError: TURNOn?
Arguments	Boolean
Returns	Boolean
Examples	RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:QUADERROR:TURNON 1 sets the Quadrature Error status for the carrier 1 to On. RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:QUADERROR:TURNON? returns the Quad Error status for the carrier 1.

RFXPress:GENPurpose:CARRIER<n>:KAISer

Sets or returns the Kaiser parameter for carrier <n>, where <n> is the carrier number. This is applicable only if the window selected is Kaiser.

Group	Generic signal: Setup
Syntax	RFXPress:GENPurpose:CARRIER<n>:KAISer RFXPress:GENPurpose:CARRIER<n>:KAISer?
Related Commands	RFXPress:GENPurpose:CARRIER<n>:WINDOW
Arguments	Real
Returns	Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:KAISER 5 sets the Kaiser parameter for carrier 1 to 5 dB.

RFXPRESS:GENPURPOSE:CARRIER1:KAISER? returns the Kaiser parameter for carrier 1.

RFXPress:GENPurpose:CARRier<n>:MODUlation

Sets the modulation of a carrier <n>, where <n> is the carrier number.

Group Generic signal: Setup

Syntax RFXPress:GENPurpose:CARRier<n>:MODUlation
RFXPress:GENPurpose:CARRier<n>:MODUlation?

Arguments String

The string values are:

No Mod, QPSK, PI/2 QPSK, BPSK, PI/2 BPSK, PI/4 QPSK, n-DPSK, OQPSK, 8-PSK, PI/2 8-PSK, O-8PSK, SD-PSK, QAM 16, PI/2 QAM 16, QAM 32, QAM 64, QAM 128, QAM 256, QAM 512, QAM 1024, GMSK, 2-FSK, 4-FSK, 8-FSK, 16-FSK, 32-FSK, ASK, OOK, AM, FM, PM, File1(Samples), File2(Symbols), File3(Maps)

Returns String

The string values returned are:

No Mod, QPSK, PI/2 QPSK, BPSK, PI/2 BPSK, PI/4 QPSK, n-DPSK, OQPSK, 8-PSK, PI/2 8-PSK, O-8PSK, SD-PSK, QAM 16, PI/2 QAM 16, QAM 32, QAM 64, QAM 128, QAM 256, QAM 512, QAM 1024, GMSK, 2-FSK, 4-FSK, 8-FSK, 16-FSK, 32-FSK, ASK, OOK, AM, FM, PM, File1(Samples), File2(Symbols), File3(Maps)

Examples RFXPRESS:GENPURPOSE:CARRIER1:MODULATION "QPSK" sets the modulation of carrier 1 to QPSK.

RFXPRESS:GENPURPOSE:CARRIER1:MODULATION? returns the modulation of carrier 1.

RFXPress:GENPurpose:CARRier<n>:MODUlation:AMODulation:MODFreq

Sets or returns the modulating frequency for AM for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to AM.

Group Generic signal: Setup

Syntax RFXPress:GENPurpose:CARRier<n>:MODUlation:AMODulation:
MODFreq
RFXPress:GENPurpose:CARRier<n>:MODUlation:AMODulation:
MODFreq?

Related Commands [RFXPress:GENPurpose:CARRier<n>:MODUlation](#)

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:AMODULATION:MODFREQ
14e6 sets the modulating frequency for carrier 1 to 14 MHz.

RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:AMODULATION:MODFREQ?
returns the modulating frequency for carrier 1.

RFXPress:GENPurpose:CARRier<n>:MODUlation:AMODulation:MODIndex

Sets or returns the AM modulation index for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to AM.

Group Generic signal: Setup

Syntax RFXPress:GENPurpose:CARRier<n>:MODUlation:AMODulation:
MODIndex
RFXPress:GENPurpose:CARRier<n>:MODUlation:AMODulation:
MODIndex?

Related Commands [RFXPress:GENPurpose:CARRier<n>:MODUlation](#)

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:AMODULATION:MODINDEX 3.1 sets the AM modulation index for carrier 1 to 3.1%.

RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:AMODULATION:MODINDEX? returns the AM modulation index for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:MODULATION:ASKEYING:MODINDEX

Sets or returns the ASK modulation index for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to ASK modulation.

Group Generic signal: Setup

Syntax RFXPress:GENPurpose:CARRIER<n>:MODULATION:ASKEYING:MODINDEX
RFXPress:GENPurpose:CARRIER<n>:MODULATION:ASKEYING:MODINDEX?

Related Commands [RFXPress:GENPurpose:CARRIER<n>:MODULATION](#)

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:ASKEYING:MODINDEX 12.2 sets the ASK modulation index for carrier 1 to 12.2%.

RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:ASKEYING:MODINDEX? returns the ASK modulation index for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:MODULATION:FMODULATION:FRQDEVIATION

Sets or returns the frequency deviation for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to FM.

Group Generic signal: Setup

Syntax RFXPress:GENPurpose:CARRIER<n>:MODULATION:FMODULATION:FRQDEVIATION

RFXPress:GENPurpose:CARRier<n>:MODUlation:FMODulation:FRQDeviation?

Related Commands [RFXPress:GENPurpose:CARRier<n>:MODUlation](#)

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:FMODULATION:FRQDEVIATION 200e6 sets the frequency modulation for carrier 1 to 200 MHz.

RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:FMODULATION:FRQDEVIATION? returns the symbol rate for carrier 1.

RFXPress:GENPurpose:CARRier<n>:MODUlation:FMODulation:MODFreq

Sets or returns the modulating frequency for FM for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to FM.

Group Generic signal: Setup

Syntax RFXPress:GENPurpose:CARRier<n>:MODUlation:FMODulation:MODFreq
RFXPress:GENPurpose:CARRier<n>:MODUlation:FMODulation:MODFreq?

Related Commands [RFXPress:GENPurpose:CARRier<n>:MODUlation](#)

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:FMODULATION:MODFREQ 12e6 sets the modulating frequency for carrier 1 to 12 MHz.

RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:FMODULATION:MODFREQ? returns the modulating frequency for carrier 1.

RFXPress:GENPurpose:CARRier<n>:MODUlation:FSKEying:PKDEviation

Sets or returns the FSK peak deviation for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to either 2-FSK, 4-FSK, 8-FSK, 16-FSK, 32-FSK.

Group	Generic signal: Setup
Syntax	RFXPress:GENPurpose:CARRier<n>:MODUlation:FSKEying:PKDEviation RFXPress:GENPurpose:CARRier<n>:MODUlation:FSKEying:PKDEviation?
Related Commands	RFXPress:GENPurpose:CARRier<n>:MODUlation
Arguments	Real
Returns	Real
Examples	RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:FSKEYING:PKDEVIATION 12.5e6 sets the FSK peak deviation for carrier 1 to 12.5 MHz. RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:FSKEYING:PKDEVIATION? returns the FSK peak deviation for carrier 1.

RFXPress:GENPurpose:CARRier<n>:MODUlation:NDPSk:NVALue

Sets or returns the 'n' value for NDPSK modulation for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to NDPSK.

Group	Generic signal: Setup
Syntax	RFXPress:GENPurpose:CARRier<n>:MODUlation:NDPSk:NVALue RFXPress:GENPurpose:CARRier<n>:MODUlation:NDPSk:NVALue?
Related Commands	RFXPress:GENPurpose:CARRier<n>:MODUlation
Arguments	Real

Returns Real

Examples `RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:NDPSK:NVALUE 8` sets the 'n' value of NDPSK modulation for carrier 1 to 8.

`RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:NDPSK:NVALUE?` returns the 'n' value of NDPSK modulation for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:MODULATION:NDPSK:PHROTation

Sets or returns the phase rotation for NDPSK modulation for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to NDPSK.

Group Generic signal: Setup

Syntax `RFXPress:GENPurpose:CARRIER<n>:MODULATION:NDPSK:PHROTation`
`RFXPress:GENPurpose:CARRIER<n>:MODULATION:NDPSK:PHROTation?`

Related Commands [RFXPress:GENPurpose:CARRIER<n>:MODULATION](#)

Arguments Real

Returns Real

Examples `RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:NDPSK:PHROTATION 20.3` sets the phase rotation for NDPSK modulation for carrier 1 to 20.3 degrees.

`RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:NDPSK:PHROTATION?` returns the phase rotation for NDPSK modulation for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:MODULATION:PMODULATION:MODFreq

Sets or returns the modulating frequency for PM for carrier >n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to PM.

Group Generic signal: Setup

Syntax RFXPress:GENPurpose:CARRier<n>:MODUlation:PMODulation:
MODFreq
RFXPress:GENPurpose:CARRier<n>:MODUlation:PMODulation:
MODFreq?

Related Commands [RFXPress:GENPurpose:CARRier<n>:MODUlation](#)

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:PMODULATION:MODFREQ
15e6 sets the modulating frequency for PM the carrier 1 to 15 MHz.

RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:PMODULATION:MODFREQ?
returns the modulating frequency for the carrier 1.

RFXPress:GENPurpose:CARRier<n>:MODUlation:PMODulation:PHEDeviation

Sets or returns the phase deviation for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to PM.

Group Generic signal: Setup

Syntax RFXPress:GENPurpose:CARRier<n>:MODUlation:PMODulation:
PHEDeviation
RFXPress:GENPurpose:CARRier<n>:MODUlation:PMODulation:
PHEDeviation?

Related Commands [RFXPress:GENPurpose:CARRier<n>:MODUlation](#)

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:PMODULATION:PHEDEVIATION
16.2 sets the phase deviation for carrier 1 to 16.2 degrees.

RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:PMODULATION:PHEDEVIATION?
returns the phase deviation for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:MULTipath:ADDPATH (No Query Form)

Adds a path with the specified delay in the multipath table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when multipath for the carrier is turned on.

Group Generic signal: Multipath

Syntax RFXPress:GENPurpose:CARRIER<n>:MULTipath:ADDPATH

Related Commands [RFXPress:GENPurpose:CARRIER<n>:MULTipath:TURNOn](#)

Arguments Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:MULTIPATH:ADDPATH 2 adds two paths in the multipath table for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:MULTipath:AMPLitude

Sets or returns the amplitude value for the currently selected path in the multipath table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when multipath for the carrier is turned on.

Group Generic signal: Multipath

Syntax RFXPress:GENPurpose:CARRIER<n>:MULTipath:AMPLitude
RFXPress:GENPurpose:CARRIER<n>:MULTipath:AMPLitude?

Related Commands [RFXPress:GENPurpose:CARRIER<n>:MULTipath:TURNOn](#)
[RFXPress:GENPurpose:CARRIER<n>:MULTipath:SELPATH](#)

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:CARRIER1:MULTIPATH:AMPLITUDE -0.01 sets the amplitude for the currently selected path for the carrier 1 to -0.01 dB.

RFXPRESS:GENPURPOSE:CARRIER1:MULTIPATH:AMPLITUDE? returns the amplitude for the currently selected path for the carrier 1.

RFXPress:GENPurpose:CARRIER<n>:MULTipath:DELAy

Sets or returns the delay value for the currently selected path in the multipath table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when multipath for the carrier is turned on. The corresponding symbol should be selected in the multipath table before executing this command. You cannot change the delay for the default path.

Group	Generic signal: Multipath
Syntax	RFXPress:GENPurpose:CARRIER<n>:MULTipath:DELAy RFXPress:GENPurpose:CARRIER<n>:MULTipath:DELAy?
Related Commands	RFXPress:GENPurpose:CARRIER<n>:MULTipath:TURNOn RFXPress:GENPurpose:CARRIER<n>:MULTipath:SELPath
Arguments	Real
Returns	Real
Examples	RFXPRESS:GENPURPOSE:CARRIER1:MULTIPATH:DELAy 0.01 sets the delay for the currently selected path for carrier 1 to 0.01 symbols. RFXPRESS:GENPURPOSE:CARRIER1:MULTIPATH:DELAy? returns the delay for the currently selected path for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:MULTipath:DELPath (No Query Form)

Deletes a path with the specified delay in the multipath table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when multipath for the carrier is turned on.

Group	Generic signal: Multipath
Syntax	RFXPress:GENPurpose:CARRIER<n>:MULTipath:DELPath

Related Commands [RFXPress:GENPurpose:CARRIER<n>:MULTipath:TURNOn](#)

Arguments Real

Examples `RFXPRESS:GENPURPOSE:CARRIER1:MULTIPATH:DELPATH 2` deletes the second path in the multipath table for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:MULTipath:PHASe

Sets or returns the phase value for the currently selected path in the multipath table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when multipath for the carrier is turned on. The corresponding symbol should be selected in the multipath table before executing this command.

Group Generic signal: Multipath

Syntax `RFXPress:GENPurpose:CARRIER<n>:MULTipath:PHASe`
`RFXPress:GENPurpose:CARRIER<n>:MULTipath:PHASe?`

Related Commands [RFXPress:GENPurpose:CARRIER<n>:MULTipath:TURNOn](#)

[RFXPress:GENPurpose:CARRIER<n>:MULTipath:SELPath](#)

Arguments Real

Returns Real

Examples `RFXPRESS:GENPURPOSE:CARRIER1:MULTIPATH:PHASe 0.01` sets the phase value for the currently selected path for carrier 1 to 0.01 degrees.

`RFXPRESS:GENPURPOSE:CARRIER1:MULTIPATH:PHASe?` returns the phase value for the currently selected path for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:MULTipath:SELPath

Sets or returns the currently selected path in multipath table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when multipath for the carrier is turned on.

Group	Generic signal: Multipath
Syntax	RFXPress:GENPurpose:CARRier<n>:MULTipath:SELPath RFXPress:GENPurpose:CARRier<n>:MULTipath:SELPath?
Related Commands	RFXPress:GENPurpose:CARRier<n>:MULTipath:TURNOn
Arguments	Real
Returns	Real
Examples	RFXPRESS:GENPURPOSE:CARRIER1:MULTIPATH:SELPATH 0.01 selects the path with delay of 0.01 symbols in multipath table for the carrier 1. RFXPRESS:GENPURPOSE:CARRIER1: MULTIPATH:SELPATH? returns the currently selected path in multipath table for the carrier 1.

RFXPress:GENPurpose:CARRier<n>:MULTipath:TURNOn

Sets or returns the “Turn On” status of multipath settings for carrier <n>, where <n> is the carrier number.

Group	Generic signal: Multipath
Syntax	RFXPress:GENPurpose:CARRier<n>:MULTipath:TURNOn {<NR1> OFF ON} RFXPress:GENPurpose:CARRier<n>:MULTipath:TURNOn?
Arguments	Boolean
Returns	Boolean
Examples	RFXPRESS:GENPURPOSE:CARRIER1:MULTIPATH:TURNON 1 sets the multipath status for the carrier 1 to On. RFXPRESS:GENPURPOSE:CARRIER1: MULTIPATH:TURNON? returns the multipath status for the carrier 1.

RFXPress:GENPurpose:CARRier<n>:PHASe

Sets or returns the phase shift of the carrier 'n' where [n] is replaced with the carrier number. This parameter input is in degrees when the signal format is IF/RF and not valid when the signal format is IQ.

Group Radar: Pulse modulation

Syntax RFXPress:GENPurpose:CARRier<n>:PHASe
RFXPress:GENPurpose:CARRier<n>:PHASe?

Related Commands [RFXPress:COMPile:SIGFormat](#)

Arguments Real

Returns Real

Examples RFXPress:GENPurpose:CARRier1:PHASe 90 sets the phase shift of carrier 1 to 90 degrees.

RFXPress:GENPurpose:CARRier1:PHASe? returns the phase shift of carrier 1.

RFXPress:GENPurpose:CARRier<n>:PWRRamping:ADDSymbol (No Query Form)

Adds a symbol in the power ramping table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when power ramping for the carrier is turned on.

Group Generic signal: Power ramping

Syntax RFXPress:GENPurpose:CARRier<n>:PWRRamping:ADDSymbol

Related Commands [RFXPress:GENPurpose:CARRier<n>:PWRRamping:TURNOn](#)

Arguments Integer

Examples RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:ADDSYMBOL 5 adds the symbol 5 in the power ramp table for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:PWRRamping:DELSymbol (No Query Form)

Deletes a symbol in the power ramping table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when power ramping for the carrier is turned on.

Group Generic signal: Power ramping

Syntax RFXPress:GENPurpose:CARRIER<n>:PWRRamping:DELSymbol

Related Commands [RFXPress:GENPurpose:CARRIER<n>:PWRRamping:TURNOn](#)

Arguments Integer

Examples RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:DELSYMBOL 5 deletes the symbol 5 from the power ramping table for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:PWRRamping:FUNCTION

Sets or returns the power ramp function for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when power ramping for the carrier is turned on.

Group Generic signal: Power ramping

Syntax RFXPress:GENPurpose:CARRIER<n>:PWRRamping:FUNCTION
RFXPress:GENPurpose:CARRIER<n>:PWRRamping:FUNCTION?

Related Commands [RFXPress:GENPurpose:CARRIER<n>:PWRRamping:TURNOn](#)

Arguments NONE, LINEar, COSIne

Returns NONE, LINEar, COSIne

- Examples** `RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:FUNCTION LINEAR` sets the power ramp function for carrier 1 to Linear.
- `RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:FUNCTION?` returns the power ramp function for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:PWRRamping:LEVEL

Sets or returns the level for the currently selected symbol in the power ramp table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when power ramping for the carrier is turned on. The corresponding symbol should be selected in the power ramping table before executing this command.

Group Generic signal: Power ramping

Syntax `RFXPress:GENPurpose:CARRIER<n>:PWRRamping:LEVEL`
`RFXPress:GENPurpose:CARRIER<n>:PWRRamping:LEVEL?`

Related Commands [RFXPress:GENPurpose:CARRIER<n>:PWRRamping:TURNOn](#)
[RFXPress:GENPurpose:CARRIER<n>:PWRRamping:SELSymbol](#)

Arguments Real

Returns Real

- Examples** `RFXPress:GENPurpose:CARRIER1:PWRRamping:LEVEL 12.5` sets the level for the currently selected symbol for carrier 1 to 12.5 dB.
- `RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:LEVEL?` returns the level of the currently selected symbol for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:PWRRamping:PRDEExtend

Sets or returns the periodic extend in power ramp for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when power ramping for the carrier is turned on.

Group Generic signal: Power ramping

Syntax RFXPress:GENPurpose:CARRier<n>:PWRRamping:PRDEExtend
 {<NR1>|OFF|ON}
 RFXPress:GENPurpose:CARRier<n>:PWRRamping:PRDEExtend?

Related Commands [RFXPress:GENPurpose:CARRier<n>:PWRRamping:TURNon](#)

Arguments Boolean

Returns Boolean

Examples RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:PRDEXTEND 1 sets the periodic extend in power ramp for carrier 1 to On.
 RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:PRDEXTEND? returns the periodic extend in power ramp for carrier 1.

RFXPress:GENPurpose:CARRier<n>:PWRRamping:SELSymbol

Sets or returns the currently selected symbol in power ramping table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when power ramping for the carrier is turned on.

Group Generic signal: Power ramping

Syntax RFXPress:GENPurpose:CARRier<n>:PWRRamping:SELSymbol
 RFXPress:GENPurpose:CARRier<n>:PWRRamping:SELSymbol?

Related Commands [RFXPress:GENPurpose:CARRier<n>:PWRRamping:TURNon](#)

Arguments Integer

Returns Integer

Examples RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:SELSYMBOL 5 selects the symbol 5 in the power ramping table for carrier 1.
 RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:SELSYMBOL? returns the currently selected symbol in the power ramping table for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:PWRRamping:SYMBOL

Sets or returns the symbol value for the currently selected symbol in the power ramp table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when power ramping for the carrier is turned on. The corresponding symbol should be selected in the power ramping table before executing this command.

Group Generic signal: Power ramping

Syntax RFXPress:GENPurpose:CARRIER<n>:PWRRamping:SYMBOL
RFXPress:GENPurpose:CARRIER<n>:PWRRamping:SYMBOL?

Related Commands [RFXPress:GENPurpose:CARRIER<n>:PWRRamping:TURNOn](#)
[RFXPress:GENPurpose:CARRIER<n>:PWRRamping:SELSymbol](#)

Arguments Integer

Returns Integer

Examples RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:SYMBOL 21 sets the symbol value for the currently selected symbol for carrier 1 to 21.
RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:SYMBOL? returns the symbol value for the currently selected symbol for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:PWRRamping:TIME

Sets or returns the time in power ramping for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when power ramping for the carrier is turned on.

Group Generic signal: Power ramping

Syntax RFXPress:GENPurpose:CARRIER<n>:PWRRamping:TIME
RFXPress:GENPurpose:CARRIER<n>:PWRRamping:TIME?

Related Commands [RFXPress:GENPurpose:CARRIER<n>:PWRRamping:TURNOn](#)

Arguments	Real
Returns	Real
Examples	<p>RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:TIME 100e-6 sets the time in power ramping for carrier 1 to 100 μs.</p> <p>RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:TIME? returns the time in power ramping for carrier 1.</p>

RFXPress:GENPurpose:CARRIER<n>:PWRRamping:TURNOn

Sets or returns the “Turn On” status of power ramping settings for carrier <n>, where <n> is the carrier number.

Group	Generic signal: Power ramping
Syntax	<p>RFXPress:GENPurpose:CARRIER<n>:PWRRamping:TURNOn {<NR1> OFF ON}</p> <p>RFXPress:GENPurpose:CARRIER<n>:PWRRamping:TURNOn?</p>
Arguments	Boolean
Returns	Boolean
Examples	<p>RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:TURNON 1 sets the power ramping status for carrier 1 to On.</p> <p>RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:TURNON? returns the power ramping status for carrier 1.</p>

RFXPress:GENPurpose:CARRIER<n>:STATE

Sets or returns the state of carrier <n>, where <n> is the carrier number.

Group	Generic signal: Setup
Syntax	<p>RFXPress:GENPurpose:CARRIER<n>:STATE {<NR1> OFF ON}</p> <p>RFXPress:GENPurpose:CARRIER<n>:STATE?</p>

Arguments	Boolean
Returns	Boolean
Examples	RFXPRESS:GENPURPOSE:CARRIER3:STATE 0 sets the state of carrier 3 to Off. RFXPRESS:GENPURPOSE:CARRIER3:STATE? returns the state of carrier 3.

RFXPress:GENPurpose:CARRIER<n>:SYMBrate

Sets or returns the symbol rate for carrier <n>, where <n> is the carrier number.

Group	Generic signal: Setup
Syntax	RFXPress:GENPurpose:CARRIER<n>:SYMBrate RFXPress:GENPurpose:CARRIER<n>:SYMBrate?
Arguments	Real
Returns	Real
Examples	RFXPRESS:GENPURPOSE:CARRIER1:SYMBRATE 20e6 sets the symbol rate for carrier 1 to 20 MHz. RFXPress:GENPurpose:CARRIER1:SYMBrate? returns the symbol rate for carrier 1.

RFXPress:GENPurpose:CARRIER<n>:WINDow

Sets or returns the window for carrier <n>, where <n> is the carrier number.

Group	Generic signal: Setup
Syntax	RFXPress:GENPurpose:CARRIER<n>:WINDow RFXPress:GENPurpose:CARRIER<n>:WINDow?
Arguments	String The string values are:

None, Triangular, Hamming, Hanning, Blackman, Kaiser, Blackman-Harris, Exact Blackman, Flat Top, Tapered cosine, Chebyshev Ripple

Returns String

The string values returned are:

None, Triangular, Hamming, Hanning, Blackman, Kaiser, Blackman-Harris, Exact Blackman, Flat Top, Tapered cosine, Chebyshev Ripple

Examples RFXPress:GENPurpose:CARRIER1:WINDOW "Triangular" sets the window of carrier 1 to Triangular.

RFXPress:GENPurpose:CARRIER1:WINDOW? returns the window of carrier 1.

RFXPress:GENPurpose:CARType

Sets or returns the carrier mode. This is used to set the carrier mode as Single or Multi Carrier.

Group Generic signal: Setup

Syntax RFXPress:GENPurpose:CARType
RFXPress:GENPurpose:CARType?

Arguments SINGLe MULTi

Returns SINGLe MULTi

Examples RFXPRESS:GENPURPOSE:CARTYPE SINGLe sets the carrier type to Single carrier.

RFXPRESS:GENPURPOSE:CARTYPE MULTi sets the carrier type to Multi-carrier.

RFXPRESS:GENPURPOSE:CARTYPE? returns the carrier type.

RFXPress:GENPurpose:DELAllcarr (No Query Form)

Deletes all carriers from the carrier table. This command is applicable only in multi-carrier mode.

Group Generic signal: Multi-carrier settings

Syntax RFXPress:GENPurpose:DELAllcarr

Related Commands [RFXPress:GENPurpose:CARType](#)

Examples RFXPRESS:GENPURPOSE:DELALLCARR deletes all the carriers from the carrier table.

RFXPress:GENPurpose:DELCarrier (No Query Form)

Deletes the specified carrier from the carrier table.

Group Generic signal: Setup

Syntax RFXPress:GENPurpose:DELCarrier

Arguments Integer

Examples RFXPRESS:GENPURPOSE:DELCARRIER 2 deletes carrier 2 from the table.

RFXPress:GENPurpose:MLTCarrier:BSEFreq

Sets or returns the multi-carrier base frequency. This parameter can be accessed only when the signal format is IF/RF.

Group Generic signal: Multi-carrier settings

Syntax RFXPress:GENPurpose:MLTCarrier:BSEFreq
RFXPress:GENPurpose:MLTCarrier:BSEFreq?

Related Commands [RFXPress:GENPurpose:ADDCarrier](#)
[RFXPress:GENPurpose:MLTCarrier\[:STATE\]](#)
[RFXPress:GENPurpose:MLTCarrier:OPTion](#)

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:MLTCARRIER:BSEFREQ 11e6 sets the multi-carrier base frequency to 11 MHz.

RFXPRESS:GENPURPOSE:MLTCARRIER:BSEFREQ? returns the multi-carrier base frequency.

RFXPress:GENPurpose:MLTCarrier:BWIDth

Sets or returns the multi-carrier bandwidth. This parameter can be accessed only when the signal format is IF/RF.

Group Generic signal: Multi-carrier settings

Syntax RFXPress:GENPurpose:MLTCarrier:BWIDth
RFXPress:GENPurpose:MLTCarrier:BWIDth?

Related Commands [RFXPress:GENPurpose:ADDCarrier](#)
[RFXPress:GENPurpose:MLTCarrier\[:STATe\]](#)
[RFXPress:GENPurpose:MLTCarrier:OPTion](#)

Arguments Real

Returns Real

Examples RFXPRESS:GENPURPOSE:MLTCARRIER:BWIDTH 5e6 sets the multi-carrier bandwidth to 5 MHz.

RFXPRESS:GENPURPOSE:MLTCARRIER:BWIDTH? returns the multi-carrier bandwidth.

RFXPress:GENPurpose:MLTCarrier:CARSpacing

Sets or returns the multi-carrier carrier spacing.

Group Generic signal: Multi-carrier settings

Syntax	<code>RFXPress:GENPurpose:MLTCarrier:CARSpacing</code> <code>RFXPress:GENPurpose:MLTCarrier:CARSpacing?</code>
Related Commands	RFXPress:GENPurpose:ADDCarrier RFXPress:GENPurpose:MLTCarrier[:STATE] RFXPress:GENPurpose:MLTCarrier:OPTion
Arguments	Real
Returns	Real
Examples	<code>RFXPRESS:GENPURPOSE:MLTCARRIER:CARSPACING 10e6</code> sets the multi-carrier carrier spacing to 10 MHz. <code>RFXPRESS:GENPURPOSE:MLTCARRIER:CARSPACING?</code> returns the multi-carrier carrier spacing.

RFXPress:GENPurpose:MLTCarrier:CENFrequency

Sets or returns the multi-carrier center frequency. This parameter can be accessed only when the signal format is IF/RF.

Group	Generic signal: Multi-carrier settings
Syntax	<code>RFXPress:GENPurpose:MLTCarrier:CENFrequency</code> <code>RFXPress:GENPurpose:MLTCarrier:CENFrequency?</code>
Related Commands	RFXPress:GENPurpose:ADDCarrier RFXPress:GENPurpose:MLTCarrier[:STATE] RFXPress:GENPurpose:MLTCarrier:OPTion
Arguments	Real
Returns	Real
Examples	<code>RFXPRESS:GENPURPOSE:MLTCARRIER:CENFREQUENCY 12e6</code> sets the multi-carrier center frequency to 12 MHz.

`RFXPRESS:GENPURPOSE:MLTCARRIER:CENFREQUENCY?` returns the multi-carrier center frequency.

RFXPress:GENPurpose:MLTCarrier:INIOffset

Sets or returns the multi-carrier initial offset. This parameter can be accessed only when the signal format is IQ.

Group Generic signal: Multi-carrier settings

Syntax `RFXPress:GENPurpose:MLTCarrier:INIOffset`
`RFXPress:GENPurpose:MLTCarrier:INIOffset?`

Related Commands [RFXPress:GENPurpose:ADDCarrier](#)
[RFXPress:GENPurpose:MLTCarrier\[:STATe\]](#)

Arguments Real

Returns Real

Examples `RFXPRESS:GENPURPOSE:MLTCARRIER:INIOFFSET 20e6` sets the multi-carrier initial offset to 20 MHz.
`RFXPRESS:GENPURPOSE:MLTCARRIER:INIOFFSET?` returns the multi-carrier initial offset.

RFXPress:GENPurpose:MLTCarrier:OPTion

Sets or returns the multi-carrier option. This command indicates if the group settings should be considered as Range frequency or Center frequency while adding multiple carriers. The Range and Center options are applicable only for IF/RF mode.

Group Generic signal: Multi-carrier settings

Syntax `RFXPress:GENPurpose:MLTCarrier:OPTion`
`RFXPress:GENPurpose:MLTCarrier:OPTion?`

Related Commands [RFXPress:GENPurpose:ADDCarrier](#)

[RFXPress:GENPurpose:MLTCarrier:CENFrequency](#)

[RFXPress:GENPurpose:MLTCarrier:BWIDth](#)

[RFXPress:GENPurpose:MLTCarrier:PHSShift](#)

[RFXPress:GENPurpose:MLTCarrier:RNDPhase](#)

[RFXPress:GENPurpose:MLTCarrier:BSEFreq](#)

[RFXPress:GENPurpose:MLTCarrier:CARSpacing](#)

Arguments CENTER, RANGE

Returns CENTER, RANGE

Examples RFXPRESS:GENPURPOSE:MLTCARRIER:OPTION CENTER sets the mult-carrier option to Center.

RFXPRESS:GENPURPOSE:MLTCARRIER:OPTION? returns the mult-carrier option.

RFXPress:GENPurpose:MLTCarrier:PHSShift

Sets or returns the multi-carrier phase shift. This parameter can be accessed only when the signal format is IF/RF. If random phase is enabled, then that will take higher precedence.

Group Generic signal: Multi-carrier settings

Syntax RFXPress:GENPurpose:MLTCarrier:PHSShift
RFXPress:GENPurpose:MLTCarrier:PHSShift?

Related Commands [RFXPress:GENPurpose:ADDCarrier](#)
[RFXPress:GENPurpose:MLTCarrier:RNDPhase](#)

Arguments real

Returns real

- Examples** RFXPRESS:GENPURPOSE:MLTCARRIER:PHSSHIFT 20 sets the multi-carrier phase shift to 20.
- RFXPRESS:GENPURPOSE:MLTCARRIER:PHSSHIFT? returns the multi-carrier phase shift.

RFXPress:GENPurpose:MLTCarrier:RNDPhase

Sets or returns the multi-carrier phase as random or not. This parameter can be accessed only when the signal format is IF/RF.

Group Generic signal: Multi-carrier settings

Syntax RFXPress:GENPurpose:MLTCarrier:RNDPhase {<NR1>|OFF|ON}
RFXPress:GENPurpose:MLTCarrier:RNDPhase?

Related Commands [RFXPress:GENPurpose:ADDCarrier](#)
[RFXPress:GENPurpose:MLTCarrier:PHSShift](#)

Arguments Boolean

Returns Boolean

- Examples** RFXPRESS:GENPURPOSE:MLTCARRIER:RNDPHASE 1 sets the multi-carrier phase to Random.
- RFXPRESS:GENPURPOSE:MLTCARRIER:RNDPHASE? returns the multi-carrier phase status.

RFXPress:GENPurpose:MLTCarrier[:STATE]

Sets or returns the multi-carrier state as On/Off. This is used when adding more than one carrier at a time. Based on the state of this command, the other multi-carrier group settings commands are considered.

Group Generic signal: Multi-carrier

Syntax RFXPress:GENPurpose:MLTCarrier[:STATE] {<NR1>|OFF|ON}
RFXPress:GENPurpose:MLTCarrier[:STATE]?

Related Commands	RFXPress:GENPurpose:ADDCarrier RFXPress:GENPurpose:MLTCarrier:OPTion RFXPress:GENPurpose:MLTCarrier:CENFrequency RFXPress:GENPurpose:MLTCarrier:BWIDth RFXPress:GENPurpose:MLTCarrier:PHSShift RFXPress:GENPurpose:MLTCarrier:RNDPhase RFXPress:GENPurpose:MLTCarrier:BSEFreq RFXPress:GENPurpose:MLTCarrier:CARSpacing RFXPress:GENPurpose:MLTCarrier:INIOffset
Arguments	Boolean
Returns	Boolean
Examples	<p><code>RFXPRESS:GENPURPOSE:MLTCARRIER[:STATE] 1</code> sets the multi-carrier status to On.</p> <p><code>RFXPRESS:GENPURPOSE:MLTCARRIER[:STATE]?</code> returns the multi-carrier status.</p>

RFXPress:GENPurpose:SPARAmeter:FBWMode

Sets or returns the filter bandwidth mode in S-parameter. The S-parameter settings are applicable only when the signal format set is IF/RF. This parameter can be accessed only when the S-parameter settings are turned on.

Group	Generic signal: S-Parameter
Syntax	<code>RFXPress:GENPurpose:SPARAmeter:FBWMode</code> <code>RFXPress:GENPurpose:SPARAmeter:FBWMode?</code>
Related Commands	RFXPress:COMPile:SIGFormat RFXPress:GENPurpose:SPARAmeter:TURNon
Arguments	AUTO, FULL, MANua1

Returns AUTO, FULL, MANua1

Examples RFXPRESS:GENPURPOSE:SPARAMETER:FBWMODE MANUAL sets the filter bandwidth mode to Manual.
RFXPRESS:GENPURPOSE:SPARAMETER:FBWMODE? returns the filter bandwidth.

RFXPress:GENPurpose:SPARAmeter:FILE<n>:ENABLE

Sets or returns the status of the S-parameter file <n>. The S-parameter settings are applicable only when the signal format set is IF/RF. This parameter can be accessed only when the S-parameter settings are turned on.

In the non-cascading mode, only the first file (where <n> = 1) parameters can be accessed.

Group Generic signal: S-Parameter

Syntax RFXPress:GENPurpose:SPARAmeter:FILE<n>:ENABLE {<NR1>|OFF|ON}
RFXPress:GENPurpose:SPARAmeter:FILE<n>:ENABLE?

Related Commands [RFXPress:COMPile:SIGFormat](#)
[RFXPress:GENPurpose:SPARAmeter:TURNOn](#)
[RFXPress:GENPurpose:SPARAmeter:MODE](#)

Arguments Boolean

Returns Boolean

Examples RFXPRESS:GENPURPOSE:SPARAMETER:FILE1:ENABLE 1 sets the status of file 1 to On.
RFXPRESS:GENPURPOSE:SPARAMETER:FILE1:ENABLE? returns the status of file 1.

RFXPress:GENPurpose:SPARAmeter:FILE<n>:NAME

Sets or returns the file name of the S-parameter file <n>. The S-parameter settings are applicable only when the signal format set is IF/RF. This parameter can be accessed only when the S-parameter settings are turned on.

In the non-cascading mode, only the first file (where <n> = 1) parameters can be accessed.

Group Generic signal: S-Parameter

Syntax RFXPress:GENPurpose:SPARAmeter:FILE<n>:NAME
RFXPress:GENPurpose:SPARAmeter:FILE<n>:NAME?

Related Commands [RFXPress:COMPile:SIGFormat](#)
[RFXPress:GENPurpose:SPARAmeter:TURNOn](#)
[RFXPress:GENPurpose:SPARAmeter:MODE](#)

Arguments String

Returns String

Examples RFXPRESS:GENPURPOSE:SPARAMETER:FILE1:NAME "E:\Test.s2p" sets the file 1 name to "E:\Test.s2p".
RFXPRESS:GENPURPOSE:SPARAMETER:FILE1:NAME? returns the name of file 1.

RFXPress:GENPurpose:SPARAmeter:FILTer:BWIDth

Sets or returns the filter bandwidth in S-parameter. The S-parameter settings are applicable only when the signal format set is IF/RF. This parameter can be accessed only when the S-parameter settings are turned on and the filter bandwidth mode is set to Manual.

Group Generic signal: S-Parameter

Syntax RFXPress:GENPurpose:SPARAmeter:FILTer:BWIDth
RFXPress:GENPurpose:SPARAmeter:FILTer:BWIDth?

Related Commands [RFXPress:COMPile:SIGFormat](#)
[RFXPress:GENPurpose:SPARAmeter:TURNOn](#)
[RFXPress:GENPurpose:SPARAmeter:FBWMode](#)

Arguments	Real
Returns	Real
Examples	<p><code>PRFXPRESS:GENPURPOSE:SPARAMETER:FILTER:BWIDTh 2e9</code> sets the filter bandwidth to 2 GHz.</p> <p><code>RFXPRESS:GENPURPOSE:SPARAMETER:FILTER:BWIDTh?</code> returns the filter bandwidth.</p>

RFXPress:GENPurpose:SPARAmeter:FOURport:DATTyPe

Sets or returns the four-port data type in S-parameter. The S-parameter settings are applicable only when the signal format set is IF/RF. This parameter can be accessed only when the S-parameter settings are turned on and the four-port file is selected.

Group	Generic signal: S-Parameter
Syntax	<p><code>RFXPress:GENPurpose:SPARAmeter:FOURport:DATTyPe</code> <code>RFXPress:GENPurpose:SPARAmeter:FOURport:DATTyPe?</code></p>
Related Commands	<p>RFXPress:COMPIle:SIGFormat RFXPress:GENPurpose:SPARAmeter:TURNon</p>
Arguments	SNGEnded, DIFFerential
Returns	SNGEnded, DIFFerential
Examples	<p><code>RFXPRESS:GENPURPOSE:SPARAMETER:FOURPORT:DATTYPe SNGENDED</code> sets the four-port data type to Single-ended.</p> <p><code>RFXPRESS:GENPURPOSE:SPARAMETER:FOURPORT:DATTYPe?</code> returns the four-port data type.</p>

RFXPress:GENPurpose:SPARAmeter:FOURport:DIFFential:LAYOut

Sets or returns the differential layout in S-parameter. The S-parameter settings are applicable only when the signal format set is IF/RF. This parameter can be

accessed only when the S-parameter settings are turned on and the four-port data type is differential.

Group Generic signal: S-Parameter

Syntax RFXPress:GENPurpose:SPARAmeter:FOURport:DIFFential:LAYout
RFXPress:GENPurpose:SPARAmeter:FOURport:DIFFential:LAYout?

Related Commands [RFXPress:COMPile:SIGFormat](#)
[RFXPress:GENPurpose:SPARAmeter:TURNon](#)
[RFXPress:GENPurpose:SPARAmeter:FOURport:DATType](#)

Arguments String
The string values are:
DC12, CD12
DC 12 corresponds to the Typical layout and CD12 corresponds to the Alternate layout.

Returns String
The string values returned are:
DC12, CD12
DC 12 corresponds to the Typical layout and CD12 corresponds to the Alternate layout.

Examples RFXPRESS:GENPURPOSE:SPARAMETER:FOURPORT:DIFFENTIAL:LAYOUT
"DC12" sets the differential layout of a four-port network to DC12. DC 12 corresponds to the Typical layout.
RFXPRESS:GENPURPOSE:SPARAMETER:FOURPORT:DIFFENTIAL:LAYOUT?
returns the differential layout for a four-port network.

RFXPress:GENPurpose:SPARAmeter:FOURport:SNGEnded:RXMinus

Sets or returns the single ended Rx- selection in S-parameter. The S-parameter settings are applicable only when the signal format set is IF/RF. This parameter can be accessed only when the S-parameter settings are turned on and a four-port single-ended file is selected.

Group	Generic signal: S-Parameter
Syntax	RFXPress:GENPurpose:SPARAmeter:FOURport:SGENded:RXMINus RFXPress:GENPurpose:SPARAmeter:FOURport:SGENded:RXMINus?
Related Commands	RFXPress:COMPile:SIGFormat RFXPress:GENPurpose:SPARAmeter:TURNon RFXPress:GENPurpose:SPARAmeter:FOURport:DATTtype
Arguments	Integer
Returns	Integer
Examples	RFXPRESS:GENPURPOSE:SPARAMETER:FOURPORT:SGENDED:RXMINUS 4 sets the Rx- selection to 4. RFXPRESS:GENPURPOSE:SPARAMETER:FOURPORT:SGENDED:RXMINUS? returns the Rx- selection.

RFXPress:GENPurpose:SPARAmeter:FOURport:SGENded:RXPLus

Sets or returns the single ended Rx+ selection in S-parameter. The S-parameter settings are applicable only when the signal format set is IF/RF. This parameter can be accessed only when the S-parameter settings are turned on and a four-port single-ended file is selected.

Group	Generic signal: S-Parameter
Syntax	RFXPress:GENPurpose:SPARAmeter:FOURport:SGENded:RXPLus RFXPress:GENPurpose:SPARAmeter:FOURport:SGENded:RXPLus?
Related Commands	RFXPress:COMPile:SIGFormat RFXPress:GENPurpose:SPARAmeter:TURNon RFXPress:GENPurpose:SPARAmeter:FOURport:DATTtype
Arguments	Integer

Returns Integer

Examples `RFXPRESS:GENPURPOSE:SPARAMETER:FOURPORT:SNGENDED:RXPLUS 3` sets the Rx+ selection to 3.

`RFXPRESS:GENPURPOSE:SPARAMETER:FOURPORT:SNGENDED:RXPLUS?` returns the Rx+ selection.

RFXPress:GENPurpose:SPARAmeter:FOURport:SNGEnded:TXMInus

Sets or returns the single ended Tx– selection in S-parameter. The S-parameter settings are applicable only when the signal format set is IF/RF. This parameter can be accessed only when the S-parameter settings are turned on and a four-port single-ended file is selected.

Group Generic signal: S-Parameter

Syntax `RFXPress:GENPurpose:SPARAmeter:FOURport:SNGEnded:TXMInus`
`RFXPress:GENPurpose:SPARAmeter:FOURport:SNGEnded:TXMInus?`

Related Commands [RFXPress:COMPile:SIGFormat](#)

[RFXPress:GENPurpose:SPARAmeter:TURNon](#)

[RFXPress:GENPurpose:SPARAmeter:FOURport:DATType](#)

Arguments Integer

Returns Integer

Examples `RFXPRESS:GENPURPOSE:SPARAMETER:FOURPORT:SNGENDED:TXMINUS 2` sets the Tx– selection to 2.

`RFXPRESS:GENPURPOSE:SPARAMETER:FOURPORT:SNGENDED:TXMINUS?` returns the Tx– selection.

RFXPress:GENPurpose:SPARAmeter:FOURport:SNGEnded:TXPLus

Sets or returns the single ended Tx+ selection in S-parameter. The S-parameter settings are applicable only when the signal format set is IF/RF. This parameter

can be accessed only when the S-parameter settings are turned on and a four-port single-ended file is selected.

Group Generic signal: S-Parameter

Syntax RFXPress:GENPurpose:SPARAmeter:FOURport:SNGEnded:TXPLUS
RFXPress:GENPurpose:SPARAmeter:FOURport:SNGEnded:TXPLUS?

Related Commands [RFXPress:COMPile:SIGFormat](#)
[RFXPress:GENPurpose:SPARAmeter:TURNOn](#)
[RFXPress:GENPurpose:SPARAmeter:FOURport:DATType](#)

Arguments Integer

Returns Integer

Examples RFXPRESS:GENPURPOSE:SPARAMETER:FOURPORT:SNGENDED:TXPLUS 1 sets the Tx+ selection to 1.
RFXPRESS:GENPURPOSE:SPARAMETER:FOURPORT:SNGENDED:TXPLUS? returns the Tx+ selection.

RFXPress:GENPurpose:SPARAmeter:INVErt

Sets or returns the Apply Inversion parameter in S-parameter. The S-parameter settings are applicable only when the signal format set is IF/RF. This parameter can be accessed only when the S-parameter settings are turned on.

Group Generic signal: S-Parameter

Syntax RFXPress:GENPurpose:SPARAmeter:INVErt {<NR1>|OFF|ON}
RFXPress:GENPurpose:SPARAmeter:INVErt?

Related Commands [RFXPress:COMPile:SIGFormat](#)
[RFXPress:GENPurpose:SPARAmeter:TURNOn](#)

Arguments Boolean

Returns Boolean

Examples `RFXPRESS:GENPURPOSE:SPARAMETER:INVERT 1` sets the Apply Inversion parameter to On.
`RFXPRESS:GENPURPOSE:SPARAMETER:INVERT?` returns the status of the Apply Inversion parameter.

RFXPress:GENPurpose:SPARAmeter:MODE

Sets or returns the S-parameter mode. The S-parameter settings are applicable only when the signal format set is IF/RF. This parameter can be accessed only when the S-parameter settings are turned on.

Group Generic signal: S-Parameter

Syntax `RFXPress:GENPurpose:SPARAmeter:MODE`
`RFXPress:GENPurpose:SPARAmeter:MODE?`

Related Commands [RFXPress:COMPile:SIGFormat](#)
[RFXPress:GENPurpose:SPARAmeter:TURNOn](#)

Arguments NONCascading, CASCading

Returns NONCascading, CASCading

Examples `RFXPRESS:GENPURPOSE:SPARAMETER:MODE CASCADING` sets the S-parameter mode to Cascading.
`RFXPRESS:GENPURPOSE:SPARAMETER:MODE?` returns the S-parameter mode.

RFXPress:GENPurpose:SPARAmeter:TURNOn

Sets or returns the S-parameter settings “TurnOn” status. The S-parameter settings are applicable only when the signal format set is IF/RF.

Group Generic Signal: S-Parameter

Syntax RFXPress:GENPurpose:SPARAmeter:TURNOn {<NR1> | OFF | ON}
 RFXPress:GENPurpose:SPARAmeter:TURNOn?

Related Commands [RFXPress:COMPile:SIGFormat](#)

Arguments Boolean

Returns Boolean

Examples RFXPRESS:GENPURPOSE:SPARAMETER:TURNON 1 enabled the S-parameter settings.
 RFXPRESS:GENPURPOSE:SPARAMETER:TURNON ? returns the status of the S-parameter settings.

RFXPress:GENPurpose:SPARAmeter:TWOPort:SELEction

Sets or returns the two-port selection in S-parameter. The S-parameter settings are applicable only when the signal format set is IF/RF. This parameter can be accessed only when the S-parameter settings are turned on and the two-port file is selected.

Group Generic Signal: S-Parameter

Syntax RFXPress:GENPurpose:SPARAmeter:TWOPort:SELEction
 RFXPress:GENPurpose:SPARAmeter:TWOPort:SELEction?

Related Commands [RFXPress:COMPile:SIGFormat](#)
[RFXPress:GENPurpose:SPARAmeter:TURNOn](#)

Arguments String
 The string values are:
 S11, S12, S21, S22

Returns string
 The string values returned are:
 S11, S12, S21, S22

Examples `RFXPRESS:GENPURPOSE:SPARAMETER:TWOPORT:SELECTION "S12"` sets the two-port selection as "S12".

`RFXPRESS:GENPURPOSE:SPARAMETER:TWOPORT:SELECTION?` returns the two-port selection.

RFXPress:GENPurpose:SUBCarrmod:AMODulation:MODIndex

Sets or returns the AM modulation index for sub-carrier modulation. The sub-carrier modulation settings are applicable only when the signal format is set to IF/RF. This parameter can be accessed only when the sub-carrier modulation is turned on and when sub-carrier modulation is set to AM.

Group Generic signal: Sub-carrier modulation

Syntax `RFXPress:GENPurpose:SUBCarrmod:AMODulation:MODIndex`
`RFXPress:GENPurpose:SUBCarrmod:AMODulation:MODIndex?`

Related Commands [RFXPress:COMPile:SIGFormat](#)
[RFXPress:GENPurpose:SUBCarrmod:TURNOn](#)
[RFXPress:GENPurpose:SUBCarrmod:MODUlation](#)

Arguments `real`

Returns `real`

Examples `RFXPRESS:GENPURPOSE:SUBCARRMOD:AMODULATION:MODINDEX 21.3` sets the AM modulation index for sub-carrier modulation to 21.3%.

`RFXPRESS:GENPURPOSE:SUBCARRMOD:AMODULATION:MODINDEX?` returns the AM modulation index for sub-carrier modulation.

RFXPress:GENPurpose:SUBCarrmod:CARRfreq

Sets or returns the carrier frequency in sub-carrier modulation. The sub-carrier modulation settings is applicable only when the signal format set is IF/RF. This parameter can be accessed only when the sub-carrier modulation is turned on.

Group Generic signal: Sub-carrier modulation

Syntax	RFXPress:GENPurpose:SUBCarrmod:CARRfreq RFXPress:GENPurpose:SUBCarrmod:CARRfreq?
Related Commands	RFXPress:COMPile:SIGFormat RFXPress:GENPurpose:SUBCarrmod:TURNon
Arguments	Real
Returns	Real
Examples	RFXPRESS:GENPURPOSE:SUBCARRMOD:CARRFREQ 2e9 sets the carrier frequency for sub-carrier modulation to 2 GHz. RFXPRESS:GENPURPOSE:SUBCARRMOD:CARRFREQ? returns the carrier frequency for sub-carrier modulation.

RFXPress:GENPurpose:SUBCarrmod:FMODulation:FRQDeviation

Sets or returns the frequency deviation in sub-carrier modulation. The sub-carrier modulation settings are applicable only when the signal format is set to IF/RF. This parameter can be accessed only when the sub-carrier modulation is turned on and when the sub-carrier modulation is set to FM.

Group	Generic signal: Sub-carrier modulation
Syntax	RFXPress:GENPurpose:SUBCarrmod:FMODulation:FRQDeviation RFXPress:GENPurpose:SUBCarrmod:FMODulation:FRQDeviation?
Related Commands	RFXPress:COMPile:SIGFormat RFXPress:GENPurpose:SUBCarrmod:TURNon RFXPress:GENPurpose:SUBCarrmod:MODulation
Arguments	Real
Returns	Real

Examples `RFXPRESS:GENPURPOSE:SUBCARRMOD:FMODULATION:FRQDEVIATION 20e6`
sets the frequency deviation in sub-carrier modulation to 20 MHz.

`RFXPRESS:GENPURPOSE:SUBCARRMOD:FMODULATION:FRQDEVIATION?`
returns the frequency deviation in sub-carrier modulation.

RFXPress:GENPurpose:SUBCarrmod:MODUlation

Sets or returns the modulation type in sub-carrier modulation. The sub-carrier modulation settings are applicable only when the signal format is set to IF/RF. This parameter can be accessed only when the sub-carrier modulation is turned on.

Group Generic signal: Sub-carrier modulation

Syntax `RFXPress:GENPurpose:SUBCarrmod:MODUlation`
`RFXPress:GENPurpose:SUBCarrmod:MODUlation?`

Related Commands [RFXPress:COMPile:SIGFormat](#)
[RFXPress:GENPurpose:SUBCarrmod:TURNon](#)

Arguments string
The string values are:
AM, FM, PM

Returns string
The string values returned are:
AM, FM, PM

Examples `RFXPRESS:GENPURPOSE:SUBCARRMOD:MODULATION "AM"` sets the sub-carrier modulation type to AM.

`RFXPRESS:GENPURPOSE:SUBCARRMOD:MODULATION?` returns the sub-carrier modulation type.

RFXPress:GENPurpose:SUBCarrmod:PMODulation:PHEDeviation

Sets or returns the phase deviation in sub-carrier modulation. The sub-carrier modulation settings are applicable only when the signal format is set to IF/RF.

This parameter can be accessed only when the sub-carrier modulation is turned on and when the sub-carrier modulation is set to PM.

Group	Generic signal: Sub-carrier modulation
Syntax	RFXPress:GENPurpose:SUBCarrmod:PMODulation:PHEDeviation RFXPress:GENPurpose:SUBCarrmod:PMODulation:PHEDeviation?
Related Commands	RFXPress:COMPile:SIGFormat RFXPress:GENPurpose:SUBCarrmod:TURNon RFXPress:GENPurpose:SUBCarrmod:MODUlation
Arguments	Real
Returns	Real
Examples	RFXPRESS:GENPURPOSE:SUBCARRMOD:PMODULATION:PHEDEVIAION 15.3 sets the phase deviation in sub-carrier modulation to 15.3 degrees. RFXPRESS:GENPURPOSE:SUBCARRMOD:PMODULATION:PHEDEVIAION? returns the phase deviation in sub-carrier modulation.

RFXPress:GENPurpose:SUBCarrmod:TURNon

Sets or returns the sub-carrier modulation “Turn On” status. The sub-carrier modulation settings are applicable only when the signal format is set to IF/RF.

Group	Generic signal: Sub-carrier modulation
Syntax	RFXPress:GENPurpose:SUBCarrmod:TURNon {<NR1> OFF ON} RFXPress:GENPurpose:SUBCarrmod:TURNon?
Related Commands	RFXPress:COMPile:SIGFormat
Arguments	Boolean
Returns	Boolean

Examples `RFXPRESS:GENPURPOSE:SUBCARRMOD:TURNON 1` sets the status of sub-carrier modulation to On.

`RFXPRESS:GENPURPOSE:SUBCARRMOD:TURNON?` returns the status of sub-carrier modulation.

RFXPress:IMPORtfile:BASEband

Sets or returns the import file baseband status. Set the import file baseband status before importing any .iqt, .tiq files to set the imported waveforms as carrier baseband signals.

Group Import from file

Syntax `RFXPress:IMPORtfile:BASEband {<NR1>|OFF|ON}`
`RFXPress:IMPORtfile:BASEband?`

Related Commands [RFXPress:IMPORtfile:TYPE](#)
[RFXPress:IMPORtfile:DATAtype](#)
[RFXPress:IMPORtfile:FORMat](#)
[RFXPress:IMPORtfile:OVERwrite](#)

Arguments Boolean

Returns Boolean

Examples `RFXPRESS:IMPORTFILE:BASEBAND 1` sets the import file baseband status to On.

`RFXPRESS:IMPORTFILE:BASEBAND?` returns the currently set import file baseband status.

RFXPress:IMPORtfile:DATAtype

Sets or returns the import file data type selection. The import file data type will have to be set before importing any file.

Group Import from file

Syntax	RFXPress:IMPORtfile:DATAtype RFXPress:IMPORtfile:DATAtype?
Related Commands	RFXPress:IMPORtfile:TYPE RFXPress:IMPORtfile:FORMat RFXPress:IMPORtfile:OVERwrite RFXPress:IMPORtfile:BASEband
Arguments	The data type values are: I - I data Q - Q data RF - IF/RF data
Returns	I - I data Q - Q data RF - IF/RF data

RFXPress:IMPORtfile:FORMat

Sets or returns the import file format selection for .txt and .csv files. The import file format type will have to be set before importing any .txt or .csv file.

Group	Import from file
Syntax	RFXPress:IMPORtfile:FORMat RFXPress:IMPORtfile:FORMat?
Related Commands	RFXPress:IMPORtfile:TYPE RFXPress:IMPORtfile:DATAtype RFXPress:IMPORtfile:OVERwrite RFXPress:IMPORtfile:BASEband
Arguments	The various format type values are: TVOLt – when the data format in the file is: Time, Volt <cr><lf> (TDS CSV format)

PVOLT – when the data format in the file is: Points, Volt <cr><lf>

VOLT – when the data format in the file is: Volt <cr><lf>

VAWG – when the data format in the file is: VOLT <cr><lf> AWG710 format

Returns TVOLT – when the data format in the file is: Time, Volt <cr><lf> (TDS CSV format)

PVOLT – when the data format in the file is: Points, Volt <cr><lf>

VOLT – when the data format in the file is: Volt <cr><lf>

VAWG – when the data format in the file is: VOLT <cr><lf> AWG710 format

Examples RFXPRESS:IMPORTFILE:FORMAT VOLT sets the import file format type to VOLT.

RFXPRESS:IMPORTFILE:FORMAT? returns the currently selected import file format type.

RFXPress:IMPORtfile:IMPORt (No Query Form)

Imports the specified file. Set the import file type filter, data type, data format, overwrite, and baseband status before importing any file into RFXpress. The file must exist and should be valid and readable.

Group Import from file

Syntax RFXPress:IMPORtfile:IMPORt

Related Commands [RFXPress:IMPORtfile:TYPE](#)
[RFXPress:IMPORtfile:DATAtype](#)
[RFXPress:IMPORtfile:FORMat](#)
[RFXPress:IMPORtfile:OVERwrite](#)
[RFXPress:IMPORtfile:BASEband](#)

Arguments String

Examples RFXPRESS:IMPORTFILE:IMPORT "C:\Data.iqt" imports the file "C:\Data.iqt".

RFXPress:IMPORtfile:OVERwrite

Sets or returns the import file overwrite status. Set the import file overwrite status before importing any file.

Group Import from file

Syntax RFXPress:IMPORtfile:OVERwrite {<NR1>|OFF|ON}
RFXPress:IMPORtfile:OVERwrite?

Related Commands [RFXPress:IMPORtfile:TYPE](#)
[RFXPress:IMPORtfile:DATAtype](#)
[RFXPress:IMPORtfile:FORMat](#)
[RFXPress:IMPORtfile:BASEband](#)

Arguments Boolean

Returns Boolean

Examples RFXPRESS:IMPORTFILE:OVERWRITE 1 sets the import file overwrite status to On.
RFXPRESS:IMPORTFILE:OVERWRITE? returns the currently set import file overwrite status.

RFXPress:IMPORtfile:TYPE

Set and returns the import file type filter. Set the import file type before importing any file into RFXpress.

Group Import from file

Syntax RFXPress:IMPORtfile:TYPE
RFXPress:IMPORtfile:TYPE?

Related Commands [RFXPress:IMPORtfile:DATAtype](#)
[RFXPress:IMPORtfile:FORMat](#)

[RFXPress:IMPOrtfile:OVERwrite](#)

[RFXPress:IMPOrtfile:BASEband](#)

Arguments The file type filter values for various file types which can be imported are:

WAVE - .wfm file

IQT - .iqt file

TIQ - .tiq file

PAT - .pat file

TEKWfm - Tekscope .wfm files

ISF - .isf file

CSV - .csv file

TXT - .txt file

MAT - .mat file

ADS - .txt file which contains data in Agilent ADS format

VSA - .csv file which contains data in Agilent VSA format

Returns WAVE - .wfm file

IQT - .iqt file

TIQ - .tiq file

PAT - .pat file

TEKWfm - Tekscope .wfm files

ISF - .isf file

CSV - .csv file

TXT - .txt file

MAT - .mat file

ADS - .txt file which contains data in Agilent ADS format

VSA - .csv file which contains data in Agilent VSA format

Examples RFXPRESS:IMPORTFILE:TYPE MAT sets the file type filter to import .mat files.

RFXPRESS:IMPORTFILE:TYPE? returns the currently selected import filter.

RFXPress:INSTctrl:AWGenerator:CHANnel<n>:WAVName

Sets the waveform to a specified AWG channel. Returns the waveform name which is set to a specified AWG channel. <n> is the channel number.

Group Instrument control

Syntax RFXPress:INSTctrl:AWGenerator:CHANnel<n>:WAVName
RFXPress:INSTctrl:AWGenerator:CHANnel<n>:WAVName?

Arguments String

Returns String

Examples RFXPRESS:INSTCTRL:AWGENERATOR:CHANNEL2:WAVNAME "wav1" sets the waveform Wav1 to channel 2.
RFXPRESS:INSTCTRL:AWGENERATOR:CHANNEL2:WAVNAME? returns the waveform name set on channel 2.

RFXPress:RADAR:CARRIER:AMPLitude

Sets or returns the carrier amplitude. Set the signal format to IQ before executing this command.

Group Radar: Carrier settings

Syntax RFXPress:RADAR:CARRIER:AMPLitude
RFXPress:RADAR:CARRIER:AMPLitude?

Related Commands [RFXPress:COMPile:SIGFormat](#)

Arguments Real

Returns Real

Examples RFXPRESS:RADAR:CARRIER:AMPLITUDE 1 sets the carrier amplitude to 1 V_{pp}.
RFXPRESS:RADAR:CARRIER:AMPLITUDE? returns the carrier amplitude.

RFXPress:RADAR:CARRIER:COHERent

Sets or returns coherent carrier turn on status. Set the signal format to IF/RF before executing this command.

Group Radar: Carrier settings

Syntax RFXPress:RADAR:CARRIER:COHERent {<NR1>|OFF|ON}
RFXPress:RADAR:CARRIER:COHERent?

Related Commands [RFXPress:COMPile:SIGFormat](#)

Arguments Boolean

Returns Boolean

Examples RFXPRESS:RADAR:CARRIER:COHERENT 1 sets the coherent carrier status to On.
RFXPRESS:RADAR:CARRIER:COHERENT? returns the coherent carrier status.

RFXPress:RADAR:CARRIER:FREQUENCY

Sets or returns the carrier frequency. Set the signal format to IF/RF before executing this command.

Group Radar: Carrier settings

Syntax RFXPress:RADAR:CARRIER:FREQUENCY
RFXPress:RADAR:CARRIER:FREQUENCY?

Related Commands [RFXPress:COMPile:SIGFormat](#)

Arguments Real

Returns Real

Examples RFXPRESS:RADAR:CARRIER:FREQUENCY 100e06 sets the carrier frequency to 100 MHz.

RFXPRESS:RADAR:CARRIER:FREQUENCY? returns the carrier frequency.

RFXPress:RADAR:CARRIER:MAGNITUDE

Sets or returns the carrier magnitude. Set the signal format to IF/RF before executing this command.

Group Radar: Carrier settings

Syntax RFXPress:RADAR:CARRIER:MAGNITUDE
RFXPress:RADAR:CARRIER:MAGNITUDE?

Related Commands [RFXPress:COMPile:SIGFormat](#)

Arguments Real

Returns Real

Examples RFXPRESS:RADAR:CARRIER:MAGNITUDE -20 sets the carrier magnitude to -20 dBm.

RFXPRESS:RADAR:CARRIER:MAGNITUDE? returns the carrier magnitude.

RFXPress:RADAR:INTFAddition:NOISE:BANDWIDTH

Sets or returns the Interference Addition Noise bandwidth value.

Group Radar: Interference addition

Syntax RFXPress:RADAR:INTFAddition:NOISE:BANDWIDTH
RFXPress:RADAR:INTFAddition:NOISE:BANDWIDTH?

Related Commands [RFXPress:RADAR:INTFAddition:NOISE:TURNON](#)

Arguments Real

Returns Real

Examples `RFXPRESS:RADAR:INTFADDITION:NOISE:BANDWIDTH 0.1` sets the bandwidth value to 0.1 fs.

`RFXPRESS:RADAR:INTFADDITION:NOISE:BANDWIDTH?` returns the bandwidth value.

RFXPress:RADAR:INTFaddition:NOISe:SNRValue

Sets or returns the Interference Addition Noise SNR value.

Group Radar: Interference addition

Syntax `RFXPress:RADAR:INTFaddition:NOISe:SNRValue`
`RFXPress:RADAR:INTFaddition:NOISe:SNRValue?`

Related Commands [RFXPress:RADAR:INTFaddition:NOISe:TURNOn](#)

Arguments Real

Returns Real

Examples `RFXPRESS:RADAR:INTFADDITION:NOISE:SNRVALUE -10` sets the Interference Addition Noise SNR value to -10 dB.

`RFXPRESS:RADAR:INTFADDITION:NOISE:SNRVALUE?` returns the Interference Addition Noise SNR value.

RFXPress:RADAR:INTFaddition:NOISe:TURNOn

Sets or returns the “Turn On” status of Interference Addition Noise.

Group Radar: Interference addition

Syntax `RFXPress:RADAR:INTFaddition:NOISe:TURNOn {<NR1>|OFF|ON}`
`RFXPress:RADAR:INTFaddition:NOISe:TURNOn?`

Arguments Boolean

Returns Boolean

Examples RFXPRESS:RADAR:INTFADDITION:NOISE:TURNON 1 sets the interference addition noise status to On.

RFXPRESS:RADAR:INTFADDITION:NOISE:TURNON? returns the interference addition noise status.

RFXPress:RADAR:INTFaddition:SIGNaladd:IWAVEform

Sets or returns the I waveform file name.

Group Radar: Interference addition

Syntax RFXPress:RADAR:INTFaddition:SIGNaladd:IWAVEform
RFXPress:RADAR:INTFaddition:SIGNaladd:IWAVEform?

Related Commands [RFXPress:RADAR:INTFaddition:SIGNaladd:TURNon](#)

Arguments String

Returns String

Examples RFXPRESS:RADAR:INTFADDITION:SIGNALADD:IWAVEFORM "waveform1_I" sets the I waveform name to Waveform1_I.

RFXPRESS:RADAR:INTFADDITION:SIGNALADD:IWAVEFORM? returns the I waveform file name.

RFXPress:RADAR:INTFaddition:SIGNaladd:QWAVEform

Sets or returns the Q waveform file name.

Group Radar: Interference addition

Syntax RFXPress:RADAR:INTFaddition:SIGNaladd:QWAVEform
RFXPress:RADAR:INTFaddition:SIGNaladd:QWAVEform?

Related Commands [RFXPress:RADAR:INTFaddition:SIGNaladd:TURNon](#)

Arguments String

Returns String

Examples RFXPRESS:RADAR:INTFADDITION:SIGNALADD:QWAVEFORM "waveform1_Q"
sets the Q waveform name to Waveform1_Q.

RFXPRESS:RADAR:INTFADDITION:SIGNALADD:QWAVEFORM? returns the Q waveform file name.

RFXPress:RADAR:INTFaddition:SIGNaladd:RFWAVEform

Sets or returns the RF waveform file name.

Group Radar: Interference addition

Syntax RFXPress:RADAR:INTFaddition:SIGNaladd:RFWAVEform
RFXPress:RADAR:INTFaddition:SIGNaladd:RFWAVEform?

Related Commands [RFXPress:RADAR:INTFaddition:SIGNaladd:TURNOn](#)

Arguments String

Returns String

Examples RFXPRESS:RADAR:INTFADDITION:SIGNALADD:RFWAVEFORM
"waveform1_RF" sets the RF waveform name to Waveform1_RF.

RFXPRESS:RADAR:INTFADDITION:SIGNALADD:RFWAVEFORM? returns the RF waveform file name.

RFXPress:RADAR:INTFaddition:SIGNaladd:SIGFormat

Sets or returns the signal format selected.

Group Radar: Interference addition

Syntax RFXPress:RADAR:INTFaddition:SIGNaladd:SIGFormat
RFXPress:RADAR:INTFaddition:SIGNaladd:SIGFormat?

Related Commands [RFXPress:RADAR:INTFaddition:SIGNaladd:TURNOn](#)

Arguments	String The string values are: IQ IFRF
Returns	String The string values returned are: IQ IFRF
Examples	RFXPRESS:RADAR:INTFADDITION:SIGNALADD:SIGFORMAT IQ sets the signal format selection to IQ RFXPRESS:RADAR:INTFADDITION:SIGNALADD:SIGFORMAT? returns the signal format selection.

RFXPress:RADAR:INTFaddition:SIGNaladd:TURNOn

Sets or returns the signal addition “Turn On” status.

Group	Radar: Interference addition
Syntax	RFXPress:RADAR:INTFaddition:SIGNaladd:TURNOn {<NR1> OFF ON} RFXPress:RADAR:INTFaddition:SIGNaladd:TURNOn?
Arguments	Boolean
Returns	Boolean
Examples	RFXPRESS:RADAR:INTFADDITION:SIGNALADD:TURNON 1 sets the status of signal addition settings to On. RFXPRESS:RADAR:INTFADDITION:SIGNALADD:TURNON? returns status of signal addition settings.

RFXPress:RADAR:INTFaddition:SIGNaladd:VIAIntf

Sets or returns the interference method selection.

Group Radar: Interference addition

Syntax RFXPress:RADAR:INTFaddition:SIGNaladd:VIAIntf
RFXPress:RADAR:INTFaddition:SIGNaladd:VIAIntf?

Related Commands [RFXPress:RADAR:INTFaddition:SIGNaladd:TURNon](#)

Arguments String
The string values are:
SOFTware
HARDware

Returns String
The string values returned are:
SOFTware
HARDware

Examples RFXPRESS:RADAR:INTFADDITION:SIGNALADD:VIAINTF SOFTWARE sets the interference method selection to Software.
RFXPRESS:RADAR:INTFADDITION:SIGNALADD:VIAINTF? returns the interference method selection.

RFXPress:RADAR:IQImpairment:CARRleakage:IVALue

Sets or returns the carrier leakage I value.

Group Radar: I/Q Impairments

Syntax RFXPress:RADAR:IQImpairment:CARRleakage:IVALue
RFXPress:RADAR:IQImpairment:CARRleakage:IVALue?

Related Commands [RFXPress:RADAR:IQImpairment:CARRleakage:TURNon](#)

Arguments Real

Returns Real

Examples RFXPRESS:RADAR:IQIMPAIRMENT:CARRLEAKAGE:IVALUE 0.1 sets the carrier leakage I value to 0.1%.
RFXPRESS:RADAR:IQIMPAIRMENT:CARRLEAKAGE:IVALUE? returns the carrier leakage I value.

RFXPress:RADAR:IQImpairment:CARRleakage:QVALue

Sets or returns the carrier leakage Q value.

Group Radar: I/Q Impairments

Syntax RFXPress:RADAR:IQImpairment:CARRleakage:QVALue
RFXPress:RADAR:IQImpairment:CARRleakage:QVALue?

Related Commands [RFXPress:RADAR:IQImpairment:CARRleakage:TURNon](#)

Arguments Real

Returns Real

Examples RFXPRESS:RADAR:IQIMPAIRMENT:CARRLEAKAGE:QVALUE 0.1 sets the carrier leakage Q value to 0.1%.
RFXPRESS:RADAR:IQIMPAIRMENT:CARRLEAKAGE:QVALUE? returns the carrier leakage Q value.

RFXPress:RADAR:IQImpairment:CARRleakage:TURNon

Sets or returns the “Turn On” status of carrier leakage.

Group Radar: I/Q Impairments

Syntax RFXPress:RADAR:IQImpairment:CARRleakage:TURNon
{<NR1>|OFF|ON}

RFXPress:RADAR:IQImpairment:CARRLeakage:TURNON?

Arguments Boolean

Returns Boolean

Examples RFXPRESS:RADAR:IQIMPAIRMENT:CARRLEAKAGE:TURNON 1 sets the carrier leakage status to On.

RFXPRESS:RADAR:IQIMPAIRMENT:CARRLEAKAGE:TURNON? returns the carrier leakage status.

RFXPress:RADAR:IQImpairment:HWSKew:CH1Val

Sets or returns the channel 1 hardware skew value.

Group Radar: I/Q Impairments

Syntax RFXPress:RADAR:IQImpairment:HWSKew:CH1Val
RFXPress:RADAR:IQImpairment:HWSKew:CH1Val?

Related Commands [RFXPress:RADAR:IQImpairment:HWSKew:TURNON](#)

Arguments Real

Returns Real

Examples RFXPRESS:RADAR:IQIMPAIRMENT:HWSKEW:CH1VAL 100e-12 sets the hardware skew channel 1 skew value to 100 ps.

RFXPRESS:RADAR:IQIMPAIRMENT:HWSKEW:CH1VAL? returns the hardware skew channel 1 skew value.

RFXPress:RADAR:IQImpairment:HWSKew:CH2Val

Sets or returns the channel 2 hardware skew value.

Group Radar: I/Q Impairments

Syntax RFXPress:RADAR:IQImpairment:HWSKew:CH2Val
RFXPress:RADAR:IQImpairment:HWSKew:CH2Val?

Related Commands [RFXPress:RADAR:IQImpairment:HWSKew:TURNon](#)

Arguments Real

Returns Real

Examples RFXPRESS:RADAR:IQIMPAIRMENT:HWSKEW:CH2VAL 100e-12 sets the hardware skew channel 2 skew value to 100 ps.
RFXPRESS:RADAR:IQIMPAIRMENT:HWSKEW:CH2VAL? returns the hardware skew channel 2 skew value.

RFXPress:RADAR:IQImpairment:HWSKew:CH3Val

Sets or returns the channel 3 hardware skew value.

Group Radar: I/Q Impairments

Syntax RFXPress:RADAR:IQImpairment:HWSKew:CH3Val
RFXPress:RADAR:IQImpairment:HWSKew:CH3Val?

Related Commands [RFXPress:RADAR:IQImpairment:HWSKew:TURNon](#)

Arguments Real

Returns Real

Examples RFXPRESS:RADAR:IQIMPAIRMENT:HWSKEW:CH3VAL 100e-12 sets the hardware skew channel 3 skew value to 100 ps.
RFXPRESS:RADAR:IQIMPAIRMENT:HWSKEW:CH3VAL? returns the hardware skew channel 3 skew value.

RFXPress:RADAR:IQImpairment:HWSKew:CH4Val

Sets or returns the channel 4 hardware skew value.

Group	Radar: I/Q Impairments
Syntax	RFXPress:RADAR:IQIMpairment:HWSKew:CH4Val RFXPress:RADAR:IQIMpairment:HWSKew:CH4Val?
Related Commands	RFXPress:RADAR:IQIMpairment:HWSKew:TURNon
Arguments	Real
Returns	Real
Examples	RFXPRESS:RADAR:IQIMPAIRMENT:HWSKEW:CH4VAL 100e-12 sets the hardware skew channel 4 skew value to 100 ps. RFXPRESS:RADAR:IQIMPAIRMENT:HWSKEW:CH4VAL? returns the hardware skew channel 4 skew value.

RFXPress:RADAR:IQIMpairment:HWSKew:TURNon

Sets or returns the “Turn On” status of hardware skew.

Group	Radar: I/Q Impairments
Syntax	RFXPress:RADAR:IQIMpairment:HWSKew:TURNon {<NR1> OFF ON} RFXPress:RADAR:IQIMpairment:HWSKew:TURNon?
Arguments	Boolean
Returns	Boolean
Examples	RFXPRESS:RADAR:IQIMPAIRMENT:HWSKEW:TURNON 1 sets the hardware skew status to On. RFXPRESS:RADAR:IQIMPAIRMENT:HWSKEW:TURNON? returns the hardware skew status.

RFXPress:RADAR:IQImpairment:IQIMbalance:IQIMbalance

Sets or returns the IQ imbalance value.

Group Radar: I/Q Impairments

Syntax RFXPress:RADAR:IQImpairment:IQIMbalance:IQIMbalance
RFXPress:RADAR:IQImpairment:IQIMbalance:IQIMbalance?

Related Commands [RFXPress:RADAR:IQImpairment:IQIMbalance:TURNon](#)

Arguments Real

Returns Real

Examples RFXPRESS:RADAR:IQIMPAIRMENT:IQIMBALANCE:IQIMBALANCE 0.09 sets the IQ imbalance value to 0.09%.

RFXPRESS:RADAR:IQIMPAIRMENT:IQIMBALANCE:IQIMBALANCE? returns the IQ imbalance value.

RFXPress:RADAR:IQImpairment:IQIMbalance:TURNon

Sets or returns the “Turn On” status of IQ Imbalance.

Group Radar: I/Q Impairments

Syntax RFXPress:RADAR:IQImpairment:IQIMbalance:TURNon
{<NR1>|OFF|ON}
RFXPress:RADAR:IQImpairment:IQIMbalance:TURNon?

Arguments Boolean

Returns Boolean

Examples RFXPRESS:RADAR:IQIMPAIRMENT:IQIMBALANCE:TURNON 1 sets the IQ imbalance status to On.

RFXPRESS:RADAR:IQIMPAIRMENT:IQIMBALANCE:TURNON? returns the IQ imbalance status.

RFXPress:RADAR:IQIMpairment:IQSWap:TURNOn

Sets or returns the “Turn On” status of IQ Swap.

Group	Radar: I/Q Impairments
Syntax	RFXPress:RADAR:IQIMpairment:IQSWap:TURNOn {<NR1> OFF ON} RFXPress:RADAR:IQIMpairment:IQSWap:TURNOn?
Arguments	Boolean
Returns	Boolean
Examples	RFXPRESS:RADAR:IQIMPAIRMENT:IQSWAP:TURNON 1 sets the IQ Swap status to On. RFXPRESS:RADAR:IQIMPAIRMENT:IQSWAP:TURNON? returns the IQ Swap status.

RFXPress:RADAR:IQIMpairment:QUADerror:DEGREes

Sets or returns the quadrature error degrees value.

Group	Radar: I/Q Impairments
Syntax	RFXPress:RADAR:IQIMpairment:QUADerror:DEGREes RFXPress:RADAR:IQIMpairment:QUADerror:DEGREes?
Related Commands	RFXPress:RADAR:IQIMpairment:QUADerror:TURNOn
Arguments	Real
Returns	Real

- Examples** `RFXPRESS:RADAR:IQIMPAIRMENT:QUADERROR:DEGREES 0.09` sets the quadrature error to 0.09 degrees.
- `RFXPRESS:RADAR:IQIMPAIRMENT:QUADERROR:DEGREES?` returns the quadrature error value.

RFXPress:RADAR:IQImpairment:QUADerror:TURNOn

Sets or returns the “Turn On” status of quadrature error.

- Group** Radar: I/Q Impairments
- Syntax** `RFXPress:RADAR:IQImpairment:QUADerror:TURNOn {<NR1>|OFF|ON}`
`RFXPress:RADAR:IQImpairment:QUADerror:TURNOn?`
- Arguments** Boolean
- Returns** Boolean
- Examples** `RFXPRESS:RADAR:IQIMPAIRMENT:QUADERROR:TURNON 1` sets the quadrature error status to On.
- `RFXPRESS:RADAR:IQIMPAIRMENT:QUADERROR:TURNON?` returns the quadrature error status.

RFXPress:RADAR:PULSe:ANTenna:BEAM:FILE

Sets or returns the custom antenna beam type file for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on antenna scanning and set the beam type to “User Defined” before using this command.

- Group** Radar: Antenna scanning
- Syntax** `RFXPress:RADAR:PULSe:ANTenna:BEAM:FILE`
`RFXPress:RADAR:PULSe:ANTenna:BEAM:FILE?`
- Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSe:ANTenna:TURNOn](#)

[RFXPress:RADAR:PULSE:ANTENNA:BEAM:TYPE](#)

Arguments	String
Returns	String
Examples	<p>RFXPRESS:RADAR:PULSE:ANTENNA:BEAM:FILE "C:\beamfile.txt" sets the custom antenna beam type file for the currently selected pulse.</p> <p>RFXPRESS:RADAR:PULSE:ANTENNA:BEAM:FILE? returns the custom antenna beam type file for the currently selected pulse.</p>

RFXPress:RADAR:PULSE:ANTENNA:BEAM:TYPE

Sets or returns the type of the antenna beam for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on antenna scanning before using this command.

Group	Radar: Antenna scanning
Syntax	<p>RFXPress:RADAR:PULSE:ANTENNA:BEAM:TYPE</p> <p>RFXPress:RADAR:PULSE:ANTENNA:BEAM:TYPE?</p>
Related Commands	<p>RFXPress:RADAR:PULTrain:SELEct</p> <p>RFXPress:RADAR:PULSE:ANTENNA:TURNOn</p>
Arguments	<p>String</p> <p>The string values are:</p> <p>Sinc</p> <p>Gaussian</p> <p>User Defined</p>
Returns	<p>String</p> <p>The string values returned are:</p> <p>Sinc</p> <p>Gaussian</p>

User Defined

- Examples** `RFXPRESS:RADAR:PULSE:ANTENNA:BEAM:TYPE "Gaussian"` sets the antenna beam type of the currently selected pulse to Gaussian.
- `RFXPRESS:RADAR:PULSE:ANTENNA:BEAM:TYPE?` returns the antenna beam type of the currently selected pulse.

RFXPress:RADAR:PULSe:ANTEнна:BEAM:WIDTh

Sets or returns the width of the antenna beam for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on antenna scanning and set the beam type to either "Sinc" or "Gaussian" before using this command.

Group Radar: Antenna scanning

Syntax `RFXPress:RADAR:PULSe:ANTEнна:BEAM:WIDTh`
 `RFXPress:RADAR:PULSe:ANTEнна:BEAM:WIDTh?`

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
 [RFXPress:RADAR:PULSe:ANTEнна:TURNon](#)
 [RFXPress:RADAR:PULSe:ANTEнна:BEAM:TYPE](#)

Arguments Real

Returns Real

- Examples** `RFXPRESS:RADAR:PULSE:ANTENNA:BEAM:WIDTH 90` sets the antenna beam width of the currently selected pulse to 90 degrees.
- `RFXPRESS:RADAR:PULSE:ANTENNA:BEAM:WIDTH?` returns the antenna beam width of the currently selected pulse.

RFXPress:RADAR:PULSe:ANTEнна:MRValue

Sets or returns the MRA value of the antenna for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on antenna scanning and set the beam type to either "Sinc" or "Gaussian" before using this command.

NOTE. *This command has been deprecated; however, it is still supported for backward compatibility.*

Group Radar: Antenna scanning

Syntax RFXPress:RADAR:PULSE:ANTENNA:MRAValue
RFXPress:RADAR:PULSE:ANTENNA:MRAValue?

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSE:ANTENNA:TURNOn](#)
[RFXPress:RADAR:PULSE:ANTENNA:BEAM:TYPE](#)

Arguments Real

Returns Real

Examples RFXPRESS:RADAR:PULSE:ANTENNA:MRAVALUE 90 sets the antenna MRA of the currently selected pulse to 90 degrees.

RFXPRESS:RADAR:PULSE:ANTENNA:MRAVALUE? returns the antenna MRA of the currently selected pulse.

RFXPress:RADAR:PULSE:ANTENNA:SCANrate

Sets or returns the scan rate of the antenna for the currently selected pulse group. Select a pulse group in the pulse train table and turn on antenna scanning before using this command.

Group Radar: Antenna scanning

Syntax RFXPress:RADAR:PULSE:ANTENNA:SCANrate
RFXPress:RADAR:PULSE:ANTENNA:SCANrate?

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSE:ANTENNA:TURNOn](#)

Arguments Real

Returns Real

Examples RFXPRESS:RADAR:PULSE:ANTENNA:SCANRATE 60 sets the antenna scan rate of the currently selected pulse to 60 degrees.

RFXPRESS:RADAR:PULSE:ANTENNA:SCANRATE? returns the antenna scan rate of the currently selected pulse.

RFXPress:RADAR:PULSe:ANTENna:TBEARing

Sets or returns the Target Bearing or MRA value of the antenna for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on antenna scanning and set the beam type to either “Sinc” or “Gaussian” before using this command.

Group Radar: Antenna scanning

Syntax RFXPress:RADAR:PULSe:ANTENna:TBEARing
RFXPress:RADAR:PULSe:ANTENna:TBEARing?

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSe:ANTENna:TURNon](#)
[RFXPress:RADAR:PULSe:ANTENna:BEAM:TYPE](#)

Arguments Real

Returns Real

Examples RFXPRESS:RADAR:PULSE:ANTENNA:TBEARING 90 sets the antenna target bearing of the currently selected pulse to 90 degrees.

RFXPRESS:RADAR:PULSE:ANTENNA:TBEARING? returns the antenna target bearing of the currently selected pulse.

RFXPress:RADAR:PULSe:ANTENna:TURNon

Sets or returns the “Turn On” status of the antenna scanning for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

Group	Radar: Antenna scanning
Syntax	RFXPress:RADAR:PULSE:ANTENNA:TURNON {<NR1> OFF ON} RFXPress:RADAR:PULSE:ANTENNA:TURNON?
Related Commands	RFXPress:RADAR:PULTrain:SELEct
Arguments	Boolean
Returns	Boolean
Examples	RFXPRESS:RADAR:PULSE:ANTENNA:TURNON 1 sets the antenna scanning status for the currently selected pulse to On. RFXPRESS:RADAR:PULSE:ANTENNA:TURNON? returns the antenna scanning status for the currently selected pulse.

RFXPress:RADAR:PULSE:HOPPING:ADDHop (No Query Form)

Adds a new hop to the hopping table for the currently selected pulse group. Select a pulse group in the pulse train table and turn on hopping before using this command.

Group	Radar: Pulse hopping
Syntax	RFXPress:RADAR:PULSE:HOPPING:ADDHop
Related Commands	RFXPress:RADAR:PULTrain:SELEct RFXPress:RADAR:PULSE:HOPPING:TURNON
Examples	RFXPRESS:RADAR:PULSE:HOPPING:ADDHOP adds a new hop to the hopping table for the currently selected pulse.

RFXPress:RADAR:PULSE:HOPPING:DELHop (No Query Form)

Deletes the selected hop in the hopping table for the currently selected pulse group. Select a pulse group in the pulse train table, turn on pulse hopping, and select a valid hop in the hopping table before using this command.

Group Radar: Pulse hopping

Syntax RFXPress:RADAR:PULSE:HOPping:DELHop

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSE:HOPping:TURNon](#)
[RFXPress:RADAR:PULSE:HOPping:SELHop](#)

Examples RFXPRESS:RADAR:PULSE:HOPPING:DELHOP deletes the selected hop in the hopping table for the selected pulse.

RFXPress:RADAR:PULSE:HOPping:OFFSet

Sets or returns the frequency offset of the selected hop in the hopping table for the currently selected pulse group. Select a pulse group in the pulse train table, Turn On pulse hopping, and select a valid hop in the hopping table before using this command.

Group Radar: Pulse hopping

Syntax RFXPress:RADAR:PULSE:HOPping:OFFSet
RFXPress:RADAR:PULSE:HOPping:OFFSet?

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSE:HOPping:TURNon](#)
[RFXPress:RADAR:PULSE:HOPping:SELHop](#)

Arguments Real

Returns Real

Examples RFXPRESS:RADAR:PULSE:HOPPING:OFFSET 10E06 sets the frequency offset of the currently selected hop in the hopping table to 10 MHz.
RFXPRESS:RADAR:PULSE:HOPPING:OFFSET? returns the frequency offset of the currently selected hop in the hopping table.

RFXPress:RADAR:PULSe:HOPPing:RELAmplitude

Sets or returns the relative amplitude of the currently selected hop in the hopping table for the selected pulse group. Select a pulse group in the pulse train table, turn on pulse hopping, and select a valid hop in the hopping table before using this command.

Group Radar: Pulse hopping

Syntax RFXPress:RADAR:PULSe:HOPPing:RELAmplitude
RFXPress:RADAR:PULSe:HOPPing:RELAmplitude?

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSe:HOPPing:TURNon](#)
[RFXPress:RADAR:PULSe:HOPPing:SELHop](#)

Arguments Real

Returns Real

Examples RFXPRESS:RADAR:PULSE:HOPPING:RELAMPLITUDE -10 sets the relative amplitude of the currently selected hop in the hopping table to -10 dB.
RFXPRESS:RADAR:PULSE:HOPPING:RELAMPLITUDE? returns the relative amplitude of the currently selected hop in the hopping table.

RFXPress:RADAR:PULSe:HOPPing:REPEat

Sets or returns the repeat status of the pulse hopping for the currently selected pulse group. Select a pulse group in the pulse train table and turn on pulse hopping before using this command.

Group Radar: Pulse hopping

Syntax RFXPress:RADAR:PULSe:HOPPing:REPEat {<NR1>|OFF|ON}
RFXPress:RADAR:PULSe:HOPPing:REPEat?

Related Commands	RFXPress:RADAR:PULTrain:SELEct RFXPress:RADAR:PULSe:HOPPIng:TURNOn
Arguments	Boolean
Returns	Boolean
Examples	<p>RFXPRESS:RADAR:PULSE:HOPPING:REPEAT 1 sets the repeat status of pulse hopping for the currently selected pulse to ON.</p> <p>RFXPRESS:RADAR:PULSE:HOPPING:REPEAT? returns the repeat status of pulse hopping for the currently selected pulse.</p>

RFXPress:RADAR:PULSe:HOPPIng:SELHop

Sets or returns the hop with the specified index in the hopping table for the currently selected pulse. Select a pulse group in the pulse train table and turn on hopping before using this command.

Group	Radar: Pulse hopping
Syntax	RFXPress:RADAR:PULSe:HOPPIng:SELHop RFXPress:RADAR:PULSe:HOPPIng:SELHop?
Related Commands	RFXPress:RADAR:PULSe:HOPPIng:SELHop RFXPress:RADAR:PULSe:HOPPIng:TURNOn
Arguments	Integer
Returns	Integer
Examples	<p>RFXPRESS:RADAR:PULSE:HOPPING:SELHOP 1 sets a path with the index 1 in the hopping table.</p> <p>RFXPRESS:RADAR:PULSE:HOPPING:SELHOP? returns the index for a selected path in the hopping table.</p>

RFXPress:RADAR:PULSe:HOPPing:TURNOn

Sets or returns the “Turn On” status of the pulse hopping for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

Group Radar: Pulse hopping

Syntax RFXPress:RADAR:PULSe:HOPPing:TURNOn {<NR1>|OFF|ON}
RFXPress:RADAR:PULSe:HOPPing:TURNOn?

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)

Arguments Boolean

Returns Boolean

Examples RFXPRESS:RADAR:PULSE:HOPPING:TURNON 1 sets the status of pulse hopping for the currently selected pulse to On.

RFXPRESS:RADAR:PULSE:HOPPING:TURNON? returns the status of pulse hopping for the currently selected pulse.

RFXPress:RADAR:PULSe:IMPAirments:AMPDeviation:DROOp

Sets or returns the pulse impairments amplitude deviation droop value for the currently selected pulse. Select a pulse group in the pulse train table and "Turn On" pulse impairments amplitude deviation before using this command. Set the pulse envelope shape of the selected pulse to anything other than “Saw Tooth” or “Custom”.

Group Radar: Pulse impairments

Syntax RFXPress:RADAR:PULSe:IMPAirments:AMPDeviation:DROOp
RFXPress:RADAR:PULSe:IMPAirments:AMPDeviation:DROOp?

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)

[RFXPress:RADAR:PULSe:PENvelope:SHAPE](#)

[RFXPress:RADAR:PULSe:IMPAirments:AMPDeviation:TURNOn](#)

Arguments Real

Returns Real

Examples RFXPRESS:RADAR:PULSE:IMPAIRMENTS:AMPDEVIATION:DROOP -10 set the pulse impairments amplitude deviation value of the currently selected pulse to -10%.

RFXPRESS:RADAR:PULSE:IMPAIRMENTS:AMPDEVIATION:DROOP? get the pulse impairments amplitude deviation value of the currently selected pulse.

RFXPress:RADAR:PULSe:IMPAirments:AMPDeviation:OVShoot

Sets or returns the pulse impairments amplitude deviation overshoot value for the currently selected pulse group. Select a pulse group in the pulse train table and "Turn On" pulse impairments amplitude deviation before using this command. Set the pulse envelope shape of the selected pulse to anything other than "Saw Tooth" or "Custom".

Group Radar: Pulse impairments

Syntax RFXPress:RADAR:PULSe:IMPAirments:AMPDeviation:OVShoot
RFXPress:RADAR:PULSe:IMPAirments:AMPDeviation:OVShoot?

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSe:PENVelope:SHAPE](#)
[RFXPress:RADAR:PULSe:IMPAirments:AMPDeviation:TURNon](#)

Arguments Real

Returns Real

Examples RFXPRESS:RADAR:PULSE:IMPAIRMENTS:AMPDEVIATION:OVSHOOT -10 set the pulse impairments amplitude deviation overshoot value of the currently selected pulse to 10%.

RFXPRESS:RADAR:PULSE:IMPAIRMENTS:AMPDEVIATION:OVSHOOT? get the pulse impairments amplitude overshoot deviation value of the currently selected pulse.

RFXPress:RADAR:PULSe:IMPAirments:AMPDeviation:RIPFrequency

Sets or returns the width of the pulse impairments amplitude deviation ripple frequency value for the currently selected pulse group. Select a pulse group in the pulse train table and "Turn On" pulse impairments amplitude deviation before using this command. Set the pulse envelope shape of the selected pulse to anything other than "Saw Tooth" or "Custom".

Group Radar: Pulse impairments

Syntax RFXPress:RADAR:PULSe:IMPAirments:AMPDeviation:RIPFrequency
RFXPress:RADAR:PULSe:IMPAirments:AMPDeviation:RIPFrequency?

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSe:PENvelope:SHApe](#)
[RFXPress:RADAR:PULSe:IMPAirments:AMPDeviation:TURNOn](#)

Arguments Real

Returns Real

Examples RFXPRESS:RADAR:PULSE:IMPAIRMENTS:AMPDEVIATION:RIPFREQUENCY
10E06 set the pulse impairments amplitude deviation ripple frequency value of
the currently selected pulse to 10 MHz.

RFXPRESS:RADAR:PULSE:IMPAIRMENTS:AMPDEVIATION:RIPFREQUENCY?
get the pulse impairments amplitude deviation ripple frequency value of the
currently selected pulse.

RFXPress:RADAR:PULSe:IMPAirments:AMPDeviation:RIPValue

Sets or returns the width of the pulse impairments amplitude deviation ripple value for the currently selected pulse group. Select a pulse group in the pulse train table and "Turn On" pulse impairments amplitude deviation before using this command. Set the pulse envelope shape of the selected pulse to anything other than "Saw Tooth" or "Custom".

Group Radar: Pulse impairments

Syntax	<code>RFXPress:RADAR:PULSE:IMPAIRMENTS:AMPDEVIATION:RIPVALUE</code> <code>RFXPress:RADAR:PULSE:IMPAIRMENTS:AMPDEVIATION:RIPVALUE?</code>
Related Commands	RFXPress:RADAR:PULTrain:SELEct RFXPress:RADAR:PULSE:PENVELOPE:SHAPE RFXPress:RADAR:PULSE:IMPAIRMENTS:AMPDEVIATION:TURNOn
Arguments	Real
Returns	Real
Examples	<code>RFXPRESS:RADAR:PULSE:IMPAIRMENTS:AMPDEVIATION:RIPVALUE 10</code> set the pulse impairments amplitude deviation ripple value of the currently selected pulse to 10%. <code>RFXPRESS:RADAR:PULSE:IMPAIRMENTS:AMPDEVIATION:RIPVALUE?</code> get the pulse impairments amplitude deviation ripple value of the currently selected pulse.

RFXPress:RADAR:PULSE:IMPAIRMENTS:AMPDEVIATION:TURNOn

Sets or returns the “Turn On” status of the pulse impairments amplitude deviation for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Set the pulse envelope shape of the selected pulse to anything other than “Saw Tooth” or “Custom”.

Group	Radar: Pulse impairments
Syntax	<code>RFXPress:RADAR:PULSE:IMPAIRMENTS:AMPDEVIATION:TURNOn</code> {<NR1> OFF ON} <code>RFXPress:RADAR:PULSE:IMPAIRMENTS:AMPDEVIATION:TURNOn?</code>
Related Commands	RFXPress:RADAR:PULTrain:SELEct RFXPress:RADAR:PULSE:PENVELOPE:SHAPE
Arguments	Boolean
Returns	Boolean

- Examples** `RFXPRESS:RADAR:PULSE:IMPAIRMENTS:AMPDEVIATION:TURNON 1` sets the status of pulse impairments amplitude deviation for the currently selected pulse to On.
- `RFXPRESS:RADAR:PULSE:IMPAIRMENTS:AMPDEVIATION:TURNON?` returns the status of pulse impairments amplitude deviation for the currently selected pulse.

RFXPress:RADAR:PULSe:IMPAirments:JITTer:EDGEtype

Sets or returns the type of the pulse impairments jitter edge type for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on the pulse impairments jitter before using this command.

Group Radar: Pulse impairments

Syntax `RFXPress:RADAR:PULSe:IMPAirments:JITTer:EDGEtype`
`RFXPress:RADAR:PULSe:IMPAirments:JITTer:EDGEtype?`

Related Commands [RFXPress:RADAR:PULSe:IMPAirments:JITTer:TURNon](#)
[RFXPress:RADAR:PULTrain:SELEct](#)

Arguments String

The string values are:

- None
- Gaussian
- Uniform

Returns String

The string values returned are:

- None
- Gaussian
- Uniform

Examples `RFXPRESS:RADAR:PULSE:IMPAIRMENTS:JITTER:EDGETYPE "Gaussian"` sets the pulse impairments jitter edge type of the currently selected pulse to "Gaussian".

`RFXPRESS:RADAR:PULSE:IMPAIRMENTS:JITTER:EDGEType?` returns the pulse impairments jitter edge type of the currently selected pulse.

RFXPress:RADAr:PULSe:IMPAirments:JITTer:EGDEviation

Sets or returns the width of the pulse impairments jitter edge deviation for the currently selected pulse. Select a pulse group in the pulse train table before using this command. Turn on pulse impairments jitter and set the pulse impairments jitter edge type to either “Uniform” or “Gaussian” before using this command.

Group Radar: Pulse impairments

Syntax `RFXPress:RADAr:PULSe:IMPAirments:JITTer:EGDEviation`
`RFXPress:RADAr:PULSe:IMPAirments:JITTer:EGDEviation?`

Related Commands [RFXPress:RADAr:PULSe:IMPAirments:JITTer:EDGEtype](#)
[RFXPress:RADAr:PULSe:IMPAirments:JITTer:TURNon](#)
[RFXPress:RADAr:PULTrain:SELEct](#)

Arguments Real

Returns Real

Examples `RFXPRESS:RADAR:PULSE:IMPAIRMENTS:JITTER:EGDEVIATION 100e-06` sets the pulse impairments jitter edge deviation of the currently selected pulse to 100 μ s.

`RFXPRESS:RADAR:PULSE:IMPAIRMENTS:JITTER:EGDEVIATION?` returns the pulse impairments jitter edge deviation of the currently selected pulse.

RFXPress:RADAr:PULSe:IMPAirments:JITTer:TURNon

Sets or returns the “Turn On” status of the pulse impairments jitter for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

Group Radar: Pulse impairments

Syntax RFXPress:RADAR:PULSE:IMPAIRMENTS:JITTER:TURNON
 {<NR1>|OFF|ON}
 RFXPress:RADAR:PULSE:IMPAIRMENTS:JITTER:TURNON?

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)

Arguments Boolean

Returns Boolean

Examples RFXPRESS:RADAR:PULSE:IMPAIRMENTS:JITTER:TURNON 1 sets the status of pulse impairments jitter for the currently selected pulse to On.

RFXPRESS:RADAR:PULSE:IMPAIRMENTS:JITTER:TURNON? returns the status of pulse impairments jitter for the currently selected pulse.

RFXPress:RADAR:PULSE:IMPAIRMENTS:JITTER:WIDEVIATION

Sets or returns the pulse impairments jitter width deviation for the currently selected pulse group. Select a pulse group in the pulse train table and turn on jitter impairments before using this command. Set the pulse envelope shape of the selected pulse to anything other than “Saw Tooth” or “Custom”. Set the pulse impairments jitter width type to either “Uniform” or “Gaussian”.

Group Radar: Pulse impairments

Syntax RFXPress:RADAR:PULSE:IMPAIRMENTS:JITTER:WIDEVIATION
 RFXPress:RADAR:PULSE:IMPAIRMENTS:JITTER:WIDEVIATION?

Related Commands [RFXPress:RADAR:PULSE:IMPAIRMENTS:JITTER:TURNON](#)
[RFXPress:RADAR:PULTrain:SELEct](#)

Arguments Real

Returns Real

Examples RFXPRESS:RADAR:PULSE:IMPAIRMENTS:JITTER:WIDEVIATION 100e-06 sets the pulse impairments jitter width deviation of the currently selected pulse to 100 μ s.

`RFXPRESS:RADAR:PULSE:IMPAIRMENTS:JITTER:WIDEVIATION?` returns the pulse impairments jitter width deviation of the currently selected pulse.

RFXPress:RADAR:PULSe:IMPAirments:JITTer:WIDThtype

Sets or returns the pulse impairments jitter width type for the currently selected pulse group. Select a pulse group in the pulse train table and turn on pulse impairments jitter before using this command. Set the pulse envelope shape of the selected pulse to anything other than “Saw Tooth” or “Custom”.

Group Radar: Pulse impairments

Syntax `RFXPress:RADAR:PULSe:IMPAirments:JITTer:WIDThtype`
`RFXPress:RADAR:PULSe:IMPAirments:JITTer:WIDThtype?`

Related Commands [RFXPress:RADAR:PULSe:IMPAirments:JITTer:TURNOn](#)
[RFXPress:RADAR:PULTrain:SELEct](#)

Arguments String
 The string values are:
 None
 Gaussian
 Uniform

Returns String
 The string values returned are:
 None
 Gaussian
 Uniform

Examples `RFXPRESS:RADAR:PULSE:IMPAIRMENTS:JITTER:WIDHTYPE "Gaussian"` sets the pulse impairments jitter width type of the currently selected pulse to “Gaussian”.

`RFXPRESS:RADAR:PULSE:IMPAIRMENTS:JITTER:WIDHTYPE?` returns the pulse impairments jitter width type of the currently selected pulse.

RFXPress:RADAR:PULSe:MODUlation

Sets or returns the modulation for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

Group Radar: Pulse modulation

Syntax RFXPress:RADAR:PULSe:MODUlation
RFXPress:RADAR:PULSe:MODUlation?

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)

Arguments String

The string values are:

“No Modulation”

“Linear Frequency Modulation”

“Biphase Coded Pulse - Barker”

“Polyphase Codes”

“User Defined Step PM AM”

“Step Frequency Modulation”

“Non Linear FM”

“User Defined Step FM AM”

“Custom Modulation”

“Up-Down Chirp Modulation”

“Frank Code”

“P1-Polyphase Code”

“P2-Polyphase Code”

“P3-Polyphase Code”

“P4-Polyphase Code”

“QPSK”

“BPSK”

Returns String

The string values returned are:

“No Modulation”
“Linear Frequency Modulation”
“Biphase Coded Pulse - Barker”
“Polyphase Codes”
“User Defined Step PM AM”
“Step Frequency Modulation”
“Non Linear FM”
“User Defined Step FM AM”
“Custom Modulation”
“Up-Down Chirp Modulation”
“Frank Code”
“P1-Polyphase Code”
“P2-Polyphase Code”
“P3-Polyphase Code”
“P4-Polyphase Code”
“QPSK”
“BPSK”

Examples RFXPRESS:RADAR:PULSE:MODULATION "Step Frequency Modulation" sets the modulation for the currently selected pulse to "Step Frequency Modulation".

RFXPRESS:RADAR:PULSE:MODULATION? returns the modulation for the currently selected pulse.

RFXPress:RADAR:PULSe:MODUlation:BCPBarker:CODE

Sets or returns the barker code in the Biphase Coded Pulse modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Biphase Coded Pulse modulation before using this command.

Group Radar: Pulse modulation

Syntax RFXPress:RADAR:PULSE:MODULATION:BCPBARKER:CODE
RFXPress:RADAR:PULSE:MODULATION:BCPBARKER:CODE?

Related Commands

Arguments String
The string values are:
"2"
"3"
"4"
"5"
"7"
"11"
"13"

Returns String
The string values returned are:
"2"
"3"
"4"
"5"
"7"
"11"
"13"

Examples RFXPRESS:RADAR:PULSE:MODULATION:BCPBARKER:CODE "2" sets the barker code for the currently selected pulse to "2".
RFXPRESS:RADAR:PULSE:MODULATION:BCPBARKER:CODE? returns the pulse for the currently selected pulse.

RFXPress:RADAR:PULSE:MODULATION:CUSTOM:FNAME

Sets or returns the file name in the custom modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to custom modulation before using this command.

Group	Radar: Pulse modulation
Syntax	RFXPress:RADAR:PULSE:MODULATION:CUSTOM:FNAME RFXPress:RADAR:PULSE:MODULATION:CUSTOM:FNAME?
Related Commands	RFXPress:RADAR:PULTrain:SELEct RFXPress:RADAR:PULSE:MODULATION
Arguments	String
Returns	String
Examples	RFXPRESS:RADAR:PULSE:MODULATION:CUSTOM:FNAME "C:\Hello" sets the file name in custom modulation for the currently selected pulse to "C:\Hello". RFXPRESS:RADAR:PULSE:MODULATION:CUSTOM:FNAME? returns the file name in custom modulation for the currently selected pulse.

RFXPress:RADAR:PULSE:MODULATION:FRANK:CODElength

Sets or returns the code length in the Frank Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Frank Code modulation before using this command.

Group	Radar: Pulse modulation
Syntax	RFXPress:RADAR:PULSE:MODULATION:FRANK:CODElength RFXPress:RADAR:PULSE:MODULATION:FRANK:CODElength?
Related Commands	RFXPress:RADAR:PULTrain:SELEct RFXPress:RADAR:PULSE:MODULATION
Arguments	Integer
Returns	Integer

Examples `RFXPRESS:RADAR:PULSE:MODULATION:FRANK:CODELENGTH 9` sets the code length for the currently selected pulse to 9.

`RFXPRESS:RADAR:PULSE:MODULATION:FRANK:CODELENGTH?` returns the code length for the currently selected pulse.

RFXPress:RADAR:PULSe:MODUlation:LFM:FRQSweep

Sets or returns the frequency sweep in the linear frequency modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to linear frequency before using this command.

Group Radar: Pulse modulation

Syntax `RFXPress:RADAR:PULSe:MODUlation:LFM:FRQSweep`
`RFXPress:RADAR:PULSe:MODUlation:LFM:FRQSweep?`

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSe:MODUlation](#)

Arguments String

The string values are:

“Low to High”

“High to Low”

Returns String

The string values returned are:

“Low to High”

“High to Low”

Examples `RFXPRESS:RADAR:PULSE:MODULATION:LFM:FRQSWEAP "High to Low"` sets the frequency sweep for the linear frequency modulation of the currently selected pulse to "High to Low".

`RFXPRESS:RADAR:PULSE:MODULATION:LFM:FRQSWEAP?` returns the of pulse for the currently selected pulse.

RFXPress:RADAR:PULSE:MODULATION:LFM:SWPRange

Sets or returns the sweep range in the linear frequency modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to linear frequency before using this command.

Group Radar: Pulse modulation

Syntax RFXPress:RADAR:PULSE:MODULATION:LFM:SWPRange
RFXPress:RADAR:PULSE:MODULATION:LFM:SWPRange?

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSE:MODULATION](#)

Arguments Real

Returns Real

Examples RFXPRESS:RADAR:PULSE:MODULATION:LFM:SWPRANGE 12e6 sets the sweep range for the linear frequency modulation for the currently selected pulse to 12 MHz.

RFXPRESS:RADAR:PULSE:MODULATION:LFM:SWPRANGE? returns the pulse for the currently selected pulse.

RFXPress:RADAR:PULSE:MODULATION:NLFM:ADD (No Query Form)

Adds 'n' order in the Non Linear FM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Non Linear FM modulation before using this command.

Group Radar: Pulse modulation

Syntax RFXPress:RADAR:PULSE:MODULATION:NLFM:ADD

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSE:MODULATION](#)

Examples `RFXPRESS:RADAR:PULSE:MODULATION:NLFM:ADD` adds Non Linear FM order for the currently selected pulse.

RFXPress:RADAR:PULSe:MODUlation:NLFM:COEFFicient

Sets or returns the coefficient for the selected order in the linear frequency modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Non Linear FM modulation before using this command.

Group Radar: Pulse modulation

Syntax `RFXPress:RADAR:PULSe:MODUlation:NLFM:COEFFicient`
`RFXPress:RADAR:PULSe:MODUlation:NLFM:COEFFicient?`

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSe:MODUlation](#)
[RFXPress:RADAR:PULSe:MODUlation:NLFM:SELOrder](#)

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:RADAR:PULSE:MODULATION:NLFM:COEFFICIENT 2e-10` sets the coefficient for the selected order in linear frequency modulation for the currently selected pulse to 20 ns.

`RFXPRESS:RADAR:PULSE:MODULATION:NLFM:COEFFICIENT?` returns the coefficient for the selected order in linear frequency modulation for the currently selected pulse.

RFXPress:RADAR:PULSe:MODUlation:NLFM:DELN (No Query Form)

Deletes 'n' order in the Non Linear FM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Non Linear FM modulation before using this command.

Group Radar: Pulse modulation

Syntax RFXPress:RADAR:PULSe:MODUlation:NLFM:DELN

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSe:MODUlation](#)

Arguments Integer

Returns Integer

Examples RFXPRESS:RADAR:PULSE:MODULATION:NLFM:DELN 2 deletes the second order in nonlinear FM for the currently selected pulse.

RFXPress:RADAR:PULSe:MODUlation:NLFM:SELOrder

Sets or returns the currently selected order in the Non Linear FM for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Non Linear FM modulation before using this command.

Group Radar: Pulse modulation

Syntax RFXPress:RADAR:PULSe:MODUlation:NLFM:SELOrder
RFXPress:RADAR:PULSe:MODUlation:NLFM:SELOrder?

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSe:MODUlation](#)

Arguments Integer

Returns Integer

Examples RFXPRESS:RADAR:PULSE:MODULATION:NLFM:SELOrder 2 sets the selected order for the currently selected pulse to 2.

RFXPRESS:RADAR:PULSE:MODULATION:NLFM:SELOrder? returns the selected order for the currently selected pulse.

RFXPress:RADAR:PULSe:MODUlation:P1COde:CODElength

Sets or returns the code length in the P1-Polyphase Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to P1-Polyphase Code modulation before using this command.

Group Radar: Pulse modulation

Syntax RFXPress:RADAR:PULSe:MODUlation:P1COde:CODElength
RFXPress:RADAR:PULSe:MODUlation:P1COde:CODElength?

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSe:MODUlation](#)

Arguments Integer

Returns Integer

Examples RFXPRESS:RADAR:PULSE:MODULATION:P1CODE:CODELENGTH 9 sets the code length for the currently selected pulse to 9.
RFXPRESS:RADAR:PULSE:MODULATION:P1CODE:CODELENGTH? returns the code length for the currently selected pulse.

RFXPress:RADAR:PULSe:MODUlation:P2COde:CODElength

Sets or returns the code length in the P2-Polyphase Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to P2-Polyphase Code modulation before using this command.

Group Radar: Pulse modulation

Syntax RFXPress:RADAR:PULSe:MODUlation:P2COde:CODElength
RFXPress:RADAR:PULSe:MODUlation:P2COde:CODElength?

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSe:MODUlation](#)

Arguments Integer

Returns Integer

Examples RFXPRESS:RADAR:PULSE:MODULATION:P2CODE:CODELENGTH 9 sets the code length for the currently selected pulse to 9.

RFXPRESS:RADAR:PULSE:MODULATION:P2CODE:CODELENGTH? returns the code length for the currently selected pulse.

RFXPress:RADAR:PULSe:MODUlation:P3COde:CODElength

Sets or returns the code length in the P3-Polyphase Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to P3-Polyphase Code modulation before using this command.

Group Radar: Pulse modulation

Syntax RFXPress:RADAR:PULSe:MODUlation:P3COde:CODElength
RFXPress:RADAR:PULSe:MODUlation:P3COde:CODElength?

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSe:MODUlation](#)

Arguments Integer

Returns Integer

Examples RFXPRESS:RADAR:PULSE:MODULATION:P3CODE:CODELENGTH 9 sets the code length for the currently selected pulse to 9.

RFXPRESS:RADAR:PULSE:MODULATION:P3CODE:CODELENGTH? returns the code length for the currently selected pulse.

RFXPress:RADAR:PULSe:MODUlation:P4COde:CODElength

Sets or returns the code length in the P4-Polyphase Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to P4-Polyphase Code modulation before using this command.

Group	Radar: Pulse modulation
Syntax	RFXPress:RADAR:PULSE:MODULATION:P4CODE:CODELENGTH RFXPress:RADAR:PULSE:MODULATION:P4CODE:CODELENGTH?
Related Commands	RFXPress:RADAR:PULTrain:SELEct RFXPress:RADAR:PULSE:MODULATION
Arguments	Integer
Returns	Integer
Examples	RFXPRESS:RADAR:PULSE:MODULATION:P4CODE:CODELENGTH 9 sets the code length for the currently selected pulse to 9. RFXPRESS:RADAR:PULSE:MODULATION:P4CODE:CODELENGTH? returns the code length for the currently selected pulse.

RFXPress:RADAR:PULSE:MODULATION:PLPCodes:INIOffset

Sets or returns the initial offset in the polyphase code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Polyphase modulation before using this command.

Group	Radar: Pulse modulation
Syntax	RFXPress:RADAR:PULSE:MODULATION:PLPCodes:INIOffset RFXPress:RADAR:PULSE:MODULATION:PLPCodes:INIOffset?
Related Commands	RFXPress:RADAR:PULTrain:SELEct RFXPress:RADAR:PULSE:MODULATION
Arguments	Real
Returns	Real

- Examples** `RFXPRESS:RADAR:PULSE:MODULATION:PLPCODES:INIOFFSET 60` sets the initial offset for the currently selected pulse to 60 degrees.
- `RFXPRESS:RADAR:PULSE:MODULATION:PLPCODES:INIOFFSET?` returns the initial offset for the currently selected pulse.

RFXPress:RADAR:PULSe:MODUlation:PLPCodes:PHSOffset

Sets or returns the phase offset in the polyphase code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Polyphase modulation before using this command.

- Group** Radar: Pulse modulation
- Syntax** `RFXPress:RADAR:PULSe:MODUlation:PLPCodes:PHSOffset`
`RFXPress:RADAR:PULSe:MODUlation:PLPCodes:PHSOffset?`
- Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSe:MODUlation](#)
- Arguments** Real
- Returns** Real
- Examples** `RFXPRESS:RADAR:PULSE:MODULATION:PLPCODES:PHSOFFSET 23` sets the phase offset for the currently selected pulse to 23 degrees.
- `RFXPRESS:RADAR:PULSE:MODULATION:PLPCODES:PHSOFFSET?` returns the phase offset for the currently selected pulse.

RFXPress:RADAR:PULSe:MODUlation:PLPCodes:STEPS

Sets or returns the number of steps in the polyphase code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Polyphase modulation before using this command.

- Group** Radar: Pulse modulation
- Syntax** `RFXPress:RADAR:PULSe:MODUlation:PLPCodes:STEPS`
`RFXPress:RADAR:PULSe:MODUlation:PLPCodes:STEPS?`

Related Commands	RFXPress:RADAR:PULTrain:SELEct RFXPress:RADAR:PULSe:MODULation
Arguments	Integer
Returns	Integer
Examples	<p>RFXPRESS:RADAR:PULSE:MODULATION:PLPCODES:STEPS 8 sets the number of steps for the currently selected pulse to 8.</p> <p>RFXPRESS:RADAR:PULSE:MODULATION:PLPCODES:STEPS? returns the number of steps for the currently selected pulse.</p>

RFXPress:RADAR:PULSe:MODULation:QPSK:SAME

Sets or returns the status of “Same symbols for all pulses” for the QPSK modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to QPSK modulation before using this command.

Group	Radar: Pulse modulation
Syntax	RFXPress:RADAR:PULSe:MODULation:QPSK:SAME {<NR1> OFF ON} RFXPress:RADAR:PULSe:MODULation:QPSK:SAME?
Related Commands	RFXPress:RADAR:PULTrain:SELEct RFXPress:RADAR:PULSe:MODULation
Arguments	Boolean
Returns	Boolean
Examples	<p>RFXPRESS:RADAR:PULSE:MODULATION:QPSK:SAME 1 sets the “Same symbols for all pulses” status for the currently selected pulse group to ON.</p> <p>RFXPRESS:RADAR:PULSE:MODULATION:QPSK:SAME? returns the “Same symbols for all pulses” status for the currently selected pulse group.</p>

RFXPress:RADAR:PULSe:MODUlation:QPSK:SYMBols

Sets or returns the number of symbols in the QPSK modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to QPSK modulation before using this command.

Group Radar: Pulse modulation

Syntax RFXPress:RADAR:PULSe:MODUlation:QPSK:SYMBols
RFXPress:RADAR:PULSe:MODUlation:QPSK:SYMBols?

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSe:MODUlation](#)

Arguments Integer

Returns Integer

Examples RFXPRESS:RADAR:PULSE:MODULATION:QPSK:SYMBOLS 25 sets the number of symbols for the currently selected pulse to 25.
RFXPRESS:RADAR:PULSE:MODULATION:QPSK:SYMBOLS? returns the number of symbols for the currently selected pulse.

RFXPress:RADAR:PULSe:MODUlation:SFM:INIStep

Sets or returns the initial step size in the step frequency modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Step Frequency modulation before using this command.

Group Radar: Pulse modulation

Syntax RFXPress:RADAR:PULSe:MODUlation:SFM:INIStep
RFXPress:RADAR:PULSe:MODUlation:SFM:INIStep?

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSe:MODUlation](#)

Arguments	Real
Returns	Real
Examples	<p>RFXPRESS:RADAR:PULSE:MODULATION:SFM:INISTEP 12e6 sets the initial step size for the currently selected pulse to 12 MHz.</p> <p>RFXPRESS:RADAR:PULSE:MODULATION:SFM:INISTEP? returns the initial step size for the currently selected pulse.</p>

RFXPress:RADAR:PULSe:MODUlation:SFM:STEPS

Sets or returns the number of steps in the step frequency modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Step Frequency modulation before using this command.

Group Radar: Pulse modulation

Syntax RFXPress:RADAR:PULSe:MODUlation:SFM:STEPS
RFXPress:RADAR:PULSe:MODUlation:SFM:STEPS?

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSe:MODUlation](#)

Arguments Integer

Returns Integer

Examples RFXPRESS:RADAR:PULSE:MODULATION:SFM:STEPS 7 sets the number of steps for the currently selected pulse to 7.

RFXPRESS:RADAR:PULSE:MODULATION:SFM:STEPS? returns the number of steps for the currently selected pulse.

RFXPress:RADAR:PULSe:MODUlation:SFM:STPSize

Sets or returns the step size in the step frequency modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Step Frequency modulation before using this command.

Group	Radar: Pulse modulation
Syntax	RFXPress:RADAR:PULSE:MODULATION:SFM:STPSIZE RFXPress:RADAR:PULSE:MODULATION:SFM:STPSIZE?
Related Commands	RFXPress:RADAR:PULTrain:SELEct RFXPress:RADAR:PULSE:MODULATION
Arguments	Real
Returns	Real
Examples	RFXPRESS:RADAR:PULSE:MODULATION:SFM:STPSIZE 100e6 sets the step size for the currently selected pulse to 100 MHz. RFXPRESS:RADAR:PULSE:MODULATION:SFM:STPSIZE? returns the step size for the currently selected pulse.

RFXPress:RADAR:PULSE:MODULATION:UPDN:INVERT

Sets or returns the status of Invert for the Up-Down Chirp modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Up-Down Chirp modulation before using this command.

Group	Radar: Pulse modulation
Syntax	RFXPress:RADAR:PULSE:MODULATION:UPDN:INVERT RFXPress:RADAR:PULSE:MODULATION:UPDN:INVERT?
Related Commands	RFXPress:RADAR:PULTrain:SELEct RFXPress:RADAR:PULSE:MODULATION
Arguments	Boolean
Returns	Boolean

Examples RFXPRESS:RADAR:PULSE:MODULATION:UPDN:INVERT 1 sets the invert status for the currently selected pulse to ON.

RFXPRESS:RADAR:PULSE:MODULATION:UPDN:INVERT? returns the invert status for the currently selected pulse.

RFXPress:RADAR:PULSe:MODUlation:UPDN:UPDOWns

Sets or returns the number of up-downs in the Up-Down Chirp modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Up-Down Chirp modulation before using this command.

Group Radar: Pulse modulation

Syntax RFXPress:RADAR:PULSe:MODUlation:UPDN:UPDOWns
RFXPress:RADAR:PULSe:MODUlation:UPDN:UPDOWns?

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSe:MODUlation](#)

Arguments Integer

Returns Integer

Examples RFXPRESS:RADAR:PULSE:MODULATION:UPDN:UPDOWNS 12 sets the number of up-downs for the currently selected pulse to 12.

RFXPRESS:RADAR:PULSE:MODULATION:UPDN:UPDOWNS? returns the number of up-downs for the currently selected pulse.

RFXPress:RADAR:PULSe:MODUlation:USDCodes:ADDN (No Query Form)

Adds 'n' user defined code steps in the User-defined Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.

NOTE. *This command has been deprecated; however, it is still supported for backward compatibility.*

Group	Radar: Pulse modulation
Syntax	RFXPress:RADAR:PULSE:MODULATION:USDCodes:ADDN
Related Commands	RFXPress:RADAR:PULTrain:SELEct RFXPress:RADAR:PULSE:MODULATION
Arguments	Integer
Returns	Integer
Examples	RFXPRESS:RADAR:PULSE:MODULATION:USDCODES:ADDN6 adds 6 user defined steps for the currently selected pulse.

RFXPress:RADAR:PULSE:MODULATION:USDCodes:AMPLitude

Sets or returns the amplitude for the selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM before using this command.

NOTE. *This command has been deprecated; however, it is still supported for backward compatibility.*

Group	Radar: Pulse modulation
Syntax	RFXPress:RADAR:PULSE:MODULATION:USDCodes:AMPLitude RFXPress:RADAR:PULSE:MODULATION:USDCodes:AMPLitude?
Related Commands	RFXPress:RADAR:PULTrain:SELEct RFXPress:RADAR:PULSE:MODULATION RFXPress:RADAR:PULSE:MODULATION:USDCodes:SELStep
Arguments	Real
Returns	Real

Examples RFXPRESS:RADAR:PULSE:MODULATION:USDCODES:AMPLITUDE -45 sets the amplitude for the currently selected pulse to -45 dB.

RFXPRESS:RADAR:PULSE:MODULATION:USDCODES:AMPLITUDE? returns the amplitude for the currently selected pulse.

RFXPress:RADAR:PULSe:MODUlation:USDCodes:DELN (No Query Form)

Deletes 'n' user defined code step in the User-defined Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.

NOTE. *This command has been deprecated; however, it is still supported for backward compatibility.*

Group Radar: Pulse modulation

Syntax RFXPress:RADAR:PULSe:MODUlation:USDCodes:DELN

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSe:MODUlation](#)

Arguments Integer

Returns Integer

Examples RFXPRESS:RADAR:PULSE:MODULATION:USDCODES:DELN 2 deletes the second user defined step for the currently selected pulse.

RFXPress:RADAR:PULSe:MODUlation:USDCodes:DURATION

Sets or returns the duration for the selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.

NOTE. *This command has been deprecated; however, it is still supported for backward compatibility.*

Group	Radar: Pulse modulation
Syntax	RFXPress:RADAR:PULSE:MODULATION:USDCodes:DURATION RFXPress:RADAR:PULSE:MODULATION:USDCodes:DURATION?
Related Commands	RFXPress:RADAR:PULTrain:SELEct RFXPress:RADAR:PULSE:MODULATION RFXPress:RADAR:PULSE:MODULATION:USDCodes:SELStep
Arguments	Real
Returns	Real
Examples	RFXPRESS:RADAR:PULSE:MODULATION:USDCODES:DURATION 20 sets the duration for the selected step for the currently selected pulse to 20 ns. RFXPRESS:RADAR:PULSE:MODULATION:USDCODES:DURATION? returns the duration for the selected step for the currently selected pulse.

RFXPress:RADAR:PULSE:MODULATION:USDCodes:PHASE

Sets or returns the phase for the selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.

NOTE. *This command has been deprecated; however, it is still supported for backward compatibility.*

Group	Radar: Pulse modulation
Syntax	RFXPress:RADAR:PULSE:MODULATION:USDCodes:PHASE RFXPress:RADAR:PULSE:MODULATION:USDCodes:PHASE?
Related Commands	RFXPress:RADAR:PULSE:MODULATION RFXPress:RADAR:PULSE:MODULATION RFXPress:RADAR:PULSE:MODULATION:USDCodes:SELStep

Arguments Real

Returns Real

Examples RFXPRESS:RADAR:PULSE:MODULATION:USDCODES:PHASE 45 sets the phase for the selected step for the currently selected pulse to 45 degrees.

RFXPRESS:RADAR:PULSE:MODULATION:USDCODES:PHASE? returns the phase for the selected step for the currently selected pulse.

RFXPress:RADAR:PULSe:MODUlation:USDCodes:SELStep

Sets or returns the currently selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.

NOTE. *This command has been deprecated; however, it is still supported for backward compatibility.*

Group PROBABLY RFXpress

Syntax RFXPress:RADAR:PULSe:MODUlation:USDCodes:SELStep
RFXPress:RADAR:PULSe:MODUlation:USDCodes:SELStep?

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSe:MODUlation](#)

Arguments Integer

Returns Integer

Examples RFXPRESS:RADAR:PULSE:MODULATION:USDCODES:SELSTEP 2 sets the selected step for the currently selected pulse to 2.

RFXPRESS:RADAR:PULSE:MODULATION:USDCODES:SELSTEP? returns the selected step for the currently selected pulse.

RFXPress:RADAR:PULSe:MODUlation:USFM:ADDN (No Query Form)

Adds 'n' user defined steps in the User-defined Step FM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step FM AM before using this command.

Group Radar: Pulse modulation

Syntax RFXPress:RADAR:PULSe:MODUlation:USFM:ADDN

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSe:MODUlation](#)

Arguments Integer

Returns Integer

Examples RFXPRESS:RADAR:PULSE:MODULATION:USFM:ADDN 20 adds 20 user defined steps for the currently selected pulse.

RFXPress:RADAR:PULSe:MODUlation:USFM:DELN (No Query Form)

Deletes 'n' user defined step in the User-defined Step FM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step FM AM before using this command.

Group Radar: Pulse modulation

Syntax RFXPress:RADAR:PULSe:MODUlation:USFM:DELN

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSe:MODUlation](#)

Arguments Integer

Returns Integer

Examples `RFXPRESS:RADAR:PULSE:MODULATION:USFM:DELN 2` deletes the second user defined step for the currently selected pulse.

RFXPress:RADAR:PULSe:MODUlation:USFM:DURAtion

Sets or returns the duration for the selected step in the User-defined Step FM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step FM AM before using this command.

Group Radar: Pulse modulation

Syntax `RFXPress:RADAR:PULSe:MODUlation:USFM:DURation`
`RFXPress:RADAR:PULSe:MODUlation:USFM:DURation?`

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSe:MODUlation](#)
[RFXPress:RADAR:PULSe:MODUlation:USFM:SELStep](#)

Arguments `real`

Returns `real`

Examples `RFXPRESS:RADAR:PULSE:MODULATION:USFM:DURATION 20` sets the duration for the currently selected pulse to 20 ns.

`RFXPRESS:RADAR:PULSE:MODULATION:USFM:DURATION?` returns the duration for the currently selected pulse.

RFXPress:RADAR:PULSe:MODUlation:USFM:FRQOffset

Sets or returns the frequency offset for the selected step in the User-defined Step FM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step FM AM before using this command.

Group Radar: Pulse modulation

Syntax	<code>RFXPress:RADAR:PULSE:MODULATION:USFM:FRQOffset</code> <code>RFXPress:RADAR:PULSE:MODULATION:USFM:FRQOffset?</code>
Related Commands	RFXPress:RADAR:PULTrain:SELEct RFXPress:RADAR:PULSE:MODULATION RFXPress:RADAR:PULSE:MODULATION:USFM:SELStep
Arguments	Real
Returns	Real
Examples	<code>RFXPRESS:RADAR:PULSE:MODULATION:USFM:FRQOFFSET 30e6</code> sets the frequency offset for the currently selected pulse to 30 MHz. <code>RFXPRESS:RADAR:PULSE:MODULATION:USFM:FRQOFFSET?</code> returns the frequency offset for the currently selected pulse.

RFXPress:RADAR:PULSE:MODULATION:USFM:SELStep

Sets or returns the currently selected step in the User-defined Step FM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step FM AM before using this command.

Group	Radar: Pulse modulation
Syntax	<code>RFXPress:RADAR:PULSE:MODULATION:USFM:SELStep</code> <code>RFXPress:RADAR:PULSE:MODULATION:USFM:SELStep?</code>
Related Commands	RFXPress:RADAR:PULTrain:SELEct RFXPress:RADAR:PULSE:MODULATION
Arguments	Integer
Returns	Integer
Examples	<code>RFXPRESS:RADAR:PULSE:MODULATION:USFM:SELSTEP 2</code> set the selected step for the currently selected pulse to 2.

RFXPRESS:RADAR:PULSE:MODULATION:USFM:SELSTEP? returns the selected step for the currently selected pulse.

RFXPress:RADAR:PULSe:MODUlation:USPM:AMPLitude

Sets or returns the amplitude for the selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.

Group Radar: Pulse modulation

Syntax RFXPress:RADAR:PULSe:MODUlation:USPM:AMPLitude
RFXPress:RADAR:PULSe:MODUlation:USPM:AMPLitude?

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSe:MODUlation](#)
[RFXPress:RADAR:PULSe:MODUlation:USPM:SELStep](#)

Arguments Real

Returns Real

Examples RFXPRESS:RADAR:PULSE:MODULATION:USPM:AMPLITUDE -45 sets the amplitude for the selected step for the currently selected pulse to -45 dB.
RFXPRESS:RADAR:PULSE:MODULATION:USPM:AMPLITUDE? returns the amplitude for the selected step for the currently selected pulse.

RFXPress:RADAR:PULSe:MODUlation:USPM:DELN (No Query Form)

Deletes 'n' user defined code step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.

Group Radar: Pulse modulation

Syntax RFXPress:RADAR:PULSe:MODUlation:USPM:DELN

Related Commands	RFXPress:RADAR:PULTrain:SELEct RFXPress:RADAR:PULSe:MODUlation
Arguments	Integer
Returns	Integer
Examples	RFXPRESS:RADAR:PULSE:MODULATION:USPM:DELN 2 deletes second user defined step for the currently selected pulse.

RFXPress:RADAR:PULSe:MODUlation:USPM:DURATION

Sets or returns the duration for the selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.

Group	Radar: Pulse modulation
Syntax	RFXPress:RADAR:PULSe:MODUlation:USPM:DURATION RFXPress:RADAR:PULSe:MODUlation:USPM:DURATION?
Related Commands	RFXPress:RADAR:PULTrain:SELEct RFXPress:RADAR:PULSe:MODUlation RFXPress:RADAR:PULSe:MODUlation:USPM:SELStep
Arguments	Real
Returns	Real
Examples	RFXPRESS:RADAR:PULSE:MODULATION:USPM:DURATION 20 sets the duration for the selected step for the currently selected pulse to 20 ns. RFXPRESS:RADAR:PULSE:MODULATION:USPM:DURATION? returns the duration for the selected step for the currently selected pulse.

RFXPress:RADAR:PULSe:MODUlation:USPM:PHASe

Sets or returns the phase for the selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.

Group Radar: Pulse modulation

Syntax RFXPress:RADAR:PULSe:MODUlation:USPM:PHASe
RFXPress:RADAR:PULSe:MODUlation:USPM:PHASe?

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSe:MODUlation](#)
[RFXPress:RADAR:PULSe:MODUlation:USPM:SELStep](#)

Arguments real

Returns real

Examples RFXPRESS:RADAR:PULSE:MODULATION:USPM:PHASE 45 sets the phase for the selected step for the currently selected pulse to 45 degrees.

RFXPRESS:RADAR:PULSE:MODULATION:USPM:PHASE? returns the phase for the selected step for the currently selected pulse.

RFXPress:RADAR:PULSe:MODUlation:USPM:SELStep

Sets or returns the currently selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.

Group Radar: Pulse modulation

Syntax RFXPress:RADAR:PULSe:MODUlation:USPM:SELStep
RFXPress:RADAR:PULSe:MODUlation:USPM:SELStep?

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSe:MODUlation](#)

Arguments Integer

Returns Integer

Examples RFXPRESS:RADAR:PULSE:MODULATION:USPM:SELSTEP 2 sets the selected step for the currently selected pulse to 2.
RFXPRESS:RADAR:PULSE:MODULATION:USPM:SELSTEP? returns the selected step for the currently selected pulse.

RFXPress:RADAR:PULSe:MULTipath:ADDPATH (No Query Form)

Adds a new path to the multipath table for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on multipath before using this command.

Group Radar: Multipath

Syntax RFXPress:RADAR:PULSe:MULTipath:ADDPATH

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSe:MULTipath:TURNon](#)

Examples RFXPRESS:RADAR:PULSE:MULTIPATH:ADDPATH adds a new path to the multipath table for the currently selected pulse.

RFXPress:RADAR:PULSe:MULTipath:AMPLitude

Sets or returns the level of the selected path in the multipath table for the currently selected pulse group. Select a pulse group in the pulse train table and turn on multipath before using this command.

Group Radar: Multipath

Syntax `RFXPress:RADAR:PULSE:MULTipath:AMPLitude`
`RFXPress:RADAR:PULSE:MULTipath:AMPLitude?`

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSE:MULTipath:TURNOn](#)
[RFXPress:RADAR:PULSE:MULTipath:SELPath](#)

Arguments `Real`

Returns `Real`

Examples `RFXPRESS:RADAR:PULSE:MULTIPATH:AMPLITUDE -20` sets the level of the selected path in the multipath table to -20 dB.

`RFXPRESS:RADAR:PULSE:MULTIPATH:AMPLITUDE?` returns the level of the selected path in the multipath table.

RFXPress:RADAR:PULSE:MULTipath:DELAy

Sets or returns the delay of the selected path in the multipath table for the currently selected pulse group. Select a pulse group in the pulse train table and turn on multipath before using this command. Select a path other than the default before setting the delay value.

Group Radar: Multipath

Syntax `RFXPress:RADAR:PULSE:MULTipath:DELAy`
`RFXPress:RADAR:PULSE:MULTipath:DELAy?`

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSE:MULTipath:TURNOn](#)
[RFXPress:RADAR:PULSE:MULTipath:SELPath](#)

Arguments `Real`

Returns `Real`

- Examples** `RFXPRESS:RADAR:PULSE:MULTIPATH:DELAY 1` sets the delay of the selected path in the multipath table to 1 μ s.
- `RFXPRESS:RADAR:PULSE:MULTIPATH:DELAY?` returns the delay of the selected path in the multipath table.

RFXPress:RADAR:PULSe:MULTipath:DELPath (No Query Form)

Deletes the selected path in the multipath table for the currently selected pulse group. Select a pulse group in the pulse train table and turn on multipath before using this command.

Group Radar: Multipath

Syntax `RFXPress:RADAR:PULSe:MULTipath:DELPath`

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSe:MULTipath:TURNon](#)
[RFXPress:RADAR:PULSe:MULTipath:SELPath](#)

- Examples** `RFXPRESS:RADAR:PULSE:MULTIPATH:DELPATH` deletes the selected path in the multipath table for the currently selected pulse.

RFXPress:RADAR:PULSe:MULTipath:PHASe

Sets or returns the phase of the selected path in the multipath table for the currently selected pulse group. Select a pulse group in the pulse train table and turn on multipath before using this command.

Group Radar: Multipath

Syntax `RFXPress:RADAR:PULSe:MULTipath:PHASe`
`RFXPress:RADAR:PULSe:MULTipath:PHASe?`

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSe:MULTipath:TURNon](#)
[RFXPress:RADAR:PULSe:MULTipath:SELPath](#)

Arguments Real

Returns Real

Examples RFXPRESS:RADAR:PULSE:MULTIPATH:PHASE 180 sets the phase of the selected path in the multipath table to 180 degrees.

RFXPRESS:RADAR:PULSE:MULTIPATH:PHASE? returns the phase of the selected path in the multipath table.

RFXPress:RADAR:PULSe:MULTipath:SELPath

Selects the path with the specified delay in the multipath table for the currently selected pulse. returns the delay of the selected path in the multipath table for the currently selected pulse. Select a pulse group in the pulse train table and turn on multipath before using this command.

Group Radar: Multipath

Syntax RFXPress:RADAR:PULSe:MULTipath:SELPath
RFXPress:RADAR:PULSe:MULTipath:SELPath?

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSe:MULTipath:TURNOn](#)

Arguments Real

Returns Real

Examples RFXPRESS:RADAR:PULSE:MULTIPATH:SELPATH 1 selects a path with the specified delay (1 us) in the multipath table.

RFXPRESS:RADAR:PULSE:MULTIPATH:SELPATH? returns the selected path with the specified delay in the multipath table.

RFXPress:RADAR:PULSe:MULTipath:TURNOn

Sets or returns the “Turn On” status of the multipath for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

Group Radar: Multipath

Syntax RFXPress:RADAR:PULSe:MULTipath:TURNOn {<NR1>|OFF|ON}
RFXPress:RADAR:PULSe:MULTipath:TURNOn?

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)

Arguments Boolean

Returns Boolean

Examples RFXPRESS:RADAR:PULSE:MULTIPATH:TURNON 1 sets the status of multipath for the currently selected pulse to On.
RFXPRESS:RADAR:PULSE:MULTIPATH:TURNON? returns the status of multipath for the currently selected pulse.

RFXPress:RADAR:PULSe:PENVELOpe:BBOFFset

Sets or returns the pulse envelope baseband offset rate value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. This command is applicable only if the signal format selected is IQ.

Group Radar: Pulse envelope group

Syntax RFXPress:RADAR:PULSe:PENVELOpe:BBOFFset
RFXPress:RADAR:PULSe:PENVELOpe:BBOFFset?

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:COMPile:SIGFormat](#)

Arguments Real

Returns real

Examples `RFXPRESS:RADAR:PULSE:PENVELOPE:BBOFFSET 1000` sets the carrier offset value of the selected pulse to 1 KHz.

`RFXPRESS:RADAR:PULSE:PENVELOPE:BBOFFSET?` returns the carrier offset value of the selected pulse.

RFXPress:RADAR:PULSe:PENVELOpe:CAROffset

Sets or returns the pulse envelope carrier offset rate value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. This command is applicable only if the signal format selected is IF/RF.

Group Radar: Pulse envelope group

Syntax `RFXPress:RADAR:PULSe:PENVELOpe:CAROffset`
`RFXPress:RADAR:PULSe:PENVELOpe:CAROffset?`

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:COMPile:SIGFormat](#)

Arguments real

Returns real

Examples `RFXPRESS:RADAR:PULSE:PENVELOPE:CAROFFSET 1000` sets the carrier offset value of the selected pulse to 1 KHz.

`RFXPRESS:RADAR:PULSE:PENVELOPE:CAROFFSET?` returns the carrier offset value of the selected pulse.

RFXPress:RADAR:PULSe:PENVELOpe:CUSTOmfile

Sets or returns the custom pulse envelope shape file for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. This command is valid only if the pulse shape is set to Custom.

Group Radar: Pulse envelope group

Syntax	RFXPress:RADAR:PULSE:PENVELOPE:CUSTOMFILE RFXPress:RADAR:PULSE:PENVELOPE:CUSTOMFILE?
Related Commands	RFXPress:RADAR:PULTrain:SELEct RFXPress:RADAR:PULSE:PENVELOPE:SHAPE
Arguments	String
Returns	String
Examples	RFXPRESS:RADAR:PULSE:PENVELOPE:CUSTOMFILE "C:\file.txt" sets custom pulse shape file of the selected pulse. RFXPRESS:RADAR:PULSE:PENVELOPE:CUSTOMFILE? returns the custom pulse shape file of the selected pulse.

RFXPress:RADAR:PULSE:PENVELOPE:RELAmplitude

Sets or returns the pulse envelope relative amplitude value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

Group	Radar: Pulse envelope group
Syntax	RFXPress:RADAR:PULSE:PENVELOPE:RELAmplitude RFXPress:RADAR:PULSE:PENVELOPE:RELAmplitude?
Related Commands	RFXPress:RADAR:PULTrain:SELEct
Arguments	Real
Returns	Real
Examples	RFXPRESS:RADAR:PULSE:PENVELOPE:RELAMPLITUDE -40 sets the relative amplitude value of the selected pulse to -40 dB. RFXPRESS:RADAR:PULSE:PENVELOPE:RELAMPLITUDE? returns the relative amplitude value of the selected pulse.

RFXPress:RADAR:PULSE:PENVELOPE:REPEAT

Sets and the pulse envelope repeat value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

Group Radar: Pulse envelope group

Syntax RFXPress:RADAR:PULSE:PENVELOPE:REPEAT
RFXPress:RADAR:PULSE:PENVELOPE:REPEAT?

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)

Arguments Real

Returns Real

Examples RFXPRESS:RADAR:PULSE:PENVELOPE:REPEAT 5 sets the repeat value of the selected pulse to 5.

RFXPRESS:RADAR:PULSE:PENVELOPE:REPEAT? returns the repeat value of the selected pulse.

RFXPress:RADAR:PULSE:PENVELOPE:SAMPLERATE

Sets or returns the pulse envelope sampling rate value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

Group Radar: Pulse envelope group

Syntax RFXPress:RADAR:PULSE:PENVELOPE:SAMPLERATE
RFXPress:RADAR:PULSE:PENVELOPE:SAMPLERATE?

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)

Arguments Real

Returns Real

Examples `RFXPRESS:RADAR:PULSE:PENVELOPE:SAMPLERATE 1000` sets the sampling rate value of the selected pulse to 1 KHz.

`RFXPRESS:RADAR:PULSE:PENVELOPE:SAMPLERATE?` returns the sampling rate value of the selected pulse.

RFXPress:RADAR:PULSe:PENVELOpe:SHAPE

Sets or returns the pulse envelope shape of the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

Group Radar: Pulse envelope group

Syntax `RFXPress:RADAR:PULSe:PENVELOpe:SHAPE`
`RFXPress:RADAR:PULSe:PENVELOpe:SHAPE?`

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)

Arguments String
The string values are:
Trapezoidal
Raised Cosine
Exponential
Rectangular
Saw Tooth
Custom

Returns String
The string values returned are:
Trapezoidal
Raised Cosine
Exponential
Rectangular
Saw Tooth
Custom

Examples `RFXPRESS:RADAR:PULSE:PENVELOPE:SHAPE "Exponential"` sets the pulse shape of the selected pulse to Exponential.

`RFXPRESS:RADAR:PULSE:PENVELOPE:SHAPE?` returns the pulse shape of the selected pulse.

RFXPress:RADAR:PULSe:PENVELOpe:TIME:FALL:PERCentage

Sets or returns the pulse envelope fall time percentage for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

Group Radar: Pulse envelope group

Syntax `RFXPress:RADAR:PULSe:PENVELOpe:TIME:FALL:PERCentage`
`RFXPress:RADAR:PULSe:PENVELOpe:TIME:FALL:PERCentage?`

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)

Arguments String
 The string values are:
 Zero to Hundred
 Ten to Ninety
 Twenty to Eighty

Returns String
 The string values returned are:
 Zero to Hundred
 Ten to Ninety
 Twenty to Eighty

Examples `RFXPRESS:RADAR:PULSE:PENVELOPE:TIME:FALL:PERCENTAGE "Zero to Hundred"` sets the fall time percentage value of the selected pulse to Zero to Hundred.

`RFXPRESS:RADAR:PULSE:PENVELOPE:TIME:FALL:PERCENTAGE?` returns the fall time percentage value of the selected pulse.

RFXPress:RADAR:PULSe:PENVELOPE:TIME:FALL:VALUe

Sets or returns the pulse envelope fall time value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

Group Radar: Pulse envelope group

Syntax RFXPress:RADAR:PULSe:PENVELOPE:TIME:FALL:VALUe
RFXPress:RADAR:PULSe:PENVELOPE:TIME:FALL:VALUe?

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)

Arguments Real

Returns Real

Examples RFXPRESS:RADAR:PULSE:PENVELOPE:TIME:FALL:VALUE 0.1 sets the fall time value of the selected pulse to 100 ms.

RFXPRESS:RADAR:PULSE:PENVELOPE:TIME:FALL:VALUE? returns the fall time value of the selected pulse.

RFXPress:RADAR:PULSe:PENVELOPE:TIME:OFFTime

Sets or returns the pulse envelope off time value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

Group Radar: Pulse envelope group

Syntax RFXPress:RADAR:PULSe:PENVELOPE:TIME:OFFTime
RFXPress:RADAR:PULSe:PENVELOPE:TIME:OFFTime?

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)

Arguments Real

Returns Real

Examples `RFXPRESS:RADAR:PULSE:PENVELOPE:TIME:OFFTIME 0.2` sets the off time value of the selected pulse to 200 ms.

`RFXPRESS:RADAR:PULSE:PENVELOPE:TIME:OFFTIME?` returns the off time value of the selected pulse.

RFXPress:RADAR:PULSe:PENVELOPE:TIME:RISE:PERCENTage

Sets or returns the pulse envelope rise time percentage for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

Group Radar: Pulse envelope group

Syntax `RFXPress:RADAR:PULSe:PENVELOPE:TIME:RISE:PERCENTage`
`RFXPress:RADAR:PULSe:PENVELOPE:TIME:RISE:PERCENTage?`

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)

Arguments String
 The string values are:
 Zero to Hundred
 Ten to Ninety
 Twenty to Eighty

Returns String
 The string values returned are:
 Zero to Hundred
 Ten to Ninety
 Twenty to Eighty

Examples `RFXPRESS:RADAR:PULSE:PENVELOPE:TIME:RISE:PERCENTAGE "Zero to Hundred"` sets the rise time percentage value of the selected pulse to Zero to Hundred.

`RFXPRESS:RADAR:PULSE:PENVELOPE:TIME:RISE:PERCENTAGE?` returns the rise time percentage value of the selected pulse.

RFXPress:RADAR:PULSE:PENVELOPE:TIME:RISE:VALUE

Sets or returns the pulse envelope rise time value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

Group Radar: Pulse envelope group

Syntax RFXPress:RADAR:PULSE:PENVELOPE:TIME:RISE:VALUE
RFXPress:RADAR:PULSE:PENVELOPE:TIME:RISE:VALUE?

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)

Arguments Real

Returns Real

Examples RFXPRESS:RADAR:PULSE:PENVELOPE:TIME:RISE:VALUE 0.1 sets the rise time value of the selected pulse to 100 ms.

RFXPRESS:RADAR:PULSE:PENVELOPE:TIME:RISE:VALUE? returns the rise time value of the selected pulse.

RFXPress:RADAR:PULSE:PENVELOPE:TIME:STARTvalue

Sets or returns the pulse envelope start time value for the currently selected pulse group.

Group Radar: Pulse envelope group

Syntax RFXPress:RADAR:PULSE:PENVELOPE:TIME:STARTvalue
RFXPress:RADAR:PULSE:PENVELOPE:TIME:STARTvalue?

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)

Arguments Real

Returns Real

Examples `RFXPRESS:RADAR:PULSE:PENVELOPE:TIME:STARTVALUE 0.2` sets the start time value of the selected pulse to 200 ms.

`RFXPRESS:RADAR:PULSE:PENVELOPE:TIME:STARTVALUE?` returns the start time value of the selected pulse.

RFXPress:RADAR:PULSe:PENVELOPE:WIDTH:POWER

Sets or returns the pulse envelope width power for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

Group Radar: Pulse envelope group

Syntax `RFXPress:RADAR:PULSe:PENVELOPE:WIDTH:POWER`
`RFXPress:RADAR:PULSe:PENVELOPE:WIDTH:POWER?`

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)

Arguments String
 The string values are:
 Fifty
 Hundred

Returns String
 The string values returned are:
 Fifty
 Hundred

Examples `RFXPRESS:RADAR:PULSE:PENVELOPE:WIDTH:POWER "Hundred"` sets the width power value of the selected pulse to "Hundred".
`RFXPRESS:RADAR:PULSE:PENVELOPE:WIDTH:POWER?` returns sets the width power value of the selected pulse.

RFXPress:RADAR:PULSe:PENVELOPE:WIDTH:VALUe

Sets or returns the pulse envelope width value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

Group	Radar: Pulse envelope group
Syntax	RFXPress:RADAR:PULSE:PENVELOPE:WIDTH:VALUE RFXPress:RADAR:PULSE:PENVELOPE:WIDTH:VALUE?
Related Commands	RFXPress:RADAR:PULTrain:SELEct
Arguments	Real
Returns	Real
Examples	RFXPRESS:RADAR:PULSE:PENVELOPE:WIDTH:VALUE 0.1 sets the width value of the selected pulse to 100 ms. RFXPRESS:RADAR:PULSE:PENVELOPE:WIDTH:VALUE? returns the width value of the selected pulse.

RFXPress:RADAR:PULSE:STAGpri:ADDPri (No Query Form)

Adds a new PRI deviation to the PRI Deviation table for the currently selected pulse group. Select a pulse group in the pulse train table, turn on staggered PRI, and set the staggered PRI type to “User Defined” before using this command. The number of PRI deviations that can be added depends upon the pulse group’s repeat value.

Group	Radar: Pulse Staggered PRI
Syntax	RFXPress:RADAR:PULSE:STAGpri:ADDPri
Related Commands	RFXPress:RADAR:PULTrain:SELEct RFXPress:RADAR:PULSE:STAGpri:TURNon RFXPress:RADAR:PULSE:STAGpri:TYPE
Examples	RFXPRESS:RADAR:PULSE:STAGPRI:ADDPRI adds a new PRI deviation to the PRI deviation table for the selected pulse.

RFXPress:RADAR:PULSe:STAGpri:DELPri (No Query Form)

Deletes the selected index in the PRI deviation table for the currently selected pulse group. Select a pulse group in the pulse train table, turn ON the staggered PRI, and set the staggered PRI type to “User Defined” before using this command.

Group Radar: Pulse Staggered PRI

Syntax RFXPress:RADAR:PULSe:STAGpri:DELPri

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSe:STAGpri:TURNOn](#)
[RFXPress:RADAR:PULSe:STAGpri:TYPE](#)
[RFXPress:RADAR:PULSe:STAGpri:SELPri](#)

Examples RFXPRESS:RADAR:PULSE:STAGPRI:DELPRI deletes the selected PRI deviation in the PRI deviation table for the selected pulse.

RFXPress:RADAR:PULSe:STAGpri:DEVlation

Sets or returns the specified index of the PRI deviation in the PRI Deviation table for the currently selected pulse. Select a pulse group in the pulse train table, turn on staggered PRI, and set the staggered PRI type to “User Defined” before using this command.

Group Radar: Pulse Staggered PRI

Syntax RFXPress:RADAR:PULSe:STAGpri:DEVlation
RFXPress:RADAR:PULSe:STAGpri:DEVlation?

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSe:STAGpri:TURNOn](#)
[RFXPress:RADAR:PULSe:STAGpri:TYPE](#)
[RFXPress:RADAR:PULSe:STAGpri:SELPri](#)

Arguments Integer

Returns Integer

Examples RFXPRESS:RADAR:PULSE:STAGPRI:DEVIATION 10e-3 sets the PRI deviation of the selected index to 10 ms.

RFXPRESS:RADAR:PULSE:STAGPRI:DEVIATION? returns the index of the selected PRI deviation in the PRI deviation table.

RFXPress:RADAR:PULSe:STAGpri:REPEat

Sets or returns the repeat status of the pulse staggered PRI for the currently selected pulse group. Select a pulse group in the pulse train table and turn on the staggered PRI type to “User Defined” before using this command.

Group Radar: Pulse Staggered PRI

Syntax RFXPress:RADAR:PULSe:STAGpri:REPEat {<NR1>|OFF|ON}
RFXPress:RADAR:PULSe:STAGpri:REPEat?

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSe:STAGpri:TURNOn](#)
[RFXPress:RADAR:PULSe:STAGpri:TYPE](#)

Arguments Boolean

Returns Boolean

Examples RFXPRESS:RADAR:PULSE:STAGPRI:REPEAT 1 sets the repeat status of pulse staggered PRI for the selected pulse to ON.

RFXPRESS:RADAR:PULSE:STAGPRI:REPEAT? returns the repeat status of pulse staggered PRI for the selected pulse.

RFXPress:RADAR:PULSe:STAGpri:SELPri

Sets or returns the specified index of the PRI deviation in the PRI Deviation table for the currently selected pulse. Select a pulse group in the pulse train table, turn on staggered PRI, and set the staggered PRI type to “User Defined” before using this command.

Group	Radar: Pulse Staggered PRI
Syntax	RFXPress:RADAR:PULSE:STAGpri:SELPri RFXPress:RADAR:PULSE:STAGpri:SELPri?
Related Commands	RFXPress:RADAR:PULTrain:SELEct RFXPress:RADAR:PULSE:STAGpri:TURNOn RFXPress:RADAR:PULSE:STAGpri:TYPE
Arguments	Integer
Returns	Integer
Examples	RFXPRESS:RADAR:PULSE:STAGPRI:SELPRI 1 sets PRI deviation with the index 1 in the PRI deviation table. RFXPRESS:RADAR:PULSE:STAGPRI:SELPRI? returns the index for the selected PRI in the PRI deviation table.

RFXPress:RADAR:PULSE:STAGpri:SLOPe

Sets or returns the slope of the staggered PRI ramp for the currently selected pulse group. Select a pulse group in the pulse train table, turn on the staggered PRI, and set the staggered PRI type to “Ramp” before using this command.

Group	Radar: Pulse Staggered PRI
Syntax	RFXPress:RADAR:PULSE:STAGpri:SLOPe RFXPress:RADAR:PULSE:STAGpri:SLOPe?
Related Commands	RFXPress:RADAR:PULTrain:SELEct RFXPress:RADAR:PULSE:STAGpri:TURNOn RFXPress:RADAR:PULSE:STAGpri:TYPE
Arguments	Real
Returns	Real

- Examples** `RFXPRESS:RADAR:PULSE:STAGPRI:SLOPE 90` sets the slope of the staggered PRI ramp for the currently selected pulse group to 90 degrees.
- `RFXPRESS:RADAR:PULSE:STAGPRI:SLOPE?` returns the slope of the staggered PRI ramp for the currently selected pulse group.

RFXPress:RADAr:PULSe:STAGpri:TURNOn

Sets or returns the "Turn On" status of the pulse staggered PRI for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

Group Radar: Pulse Staggered PRI

Syntax `RFXPress:RADAr:PULSe:STAGpri:TURNOn {<NR1>|OFF|ON}`
`RFXPress:RADAr:PULSe:STAGpri:TURNOn?`

Related Commands [RFXPress:RADAr:PULTrain:SELEct](#)

Arguments Boolean

Returns Boolean

- Examples** `RFXPRESS:RADAR:PULSE:STAGPRI:TURNON 1` sets the "Turn On" status of pulse staggered PRI for the currently selected pulse.
- `RFXPRESS:RADAR:PULSE:STAGPRI:TURNON?` returns the "Turn On" status of pulse staggered PRI for the currently selected pulse.

RFXPress:RADAr:PULSe:STAGpri:TYPE

Sets or returns the type of the staggered PRI for the currently selected pulse group. Select a valid pulse or dead-time in the pulse train table and turn on the staggered PRI before using this command.

Group Radar: Pulse Staggered PRI

Syntax `RFXPress:RADAr:PULSe:STAGpri:TYPE`
`RFXPress:RADAr:PULSe:STAGpri:TYPE?`

Related Commands	RFXPress:RADAR:PULTrain:SELEct RFXPress:RADAR:PULSe:STAGpri:TURNOn
Arguments	String The string values are: “Ramp” “User Defined”
Returns	String The string values returned are: “Ramp” “User Defined”
Examples	<code>RFXPRESS:RADAR:PULSE:STAGPRI:TYPE “User Defined”</code> sets the type of the staggered PRI for the currently selected pulse group to “User Defined”. <code>RFXPRESS:RADAR:PULSE:STAGPRI:TYPE?</code> returns the type of the staggered PRI for the currently selected pulse group.

RFXPress:RADAR:PULTrain:ADDElement (No Query Form)

Adds a pulse or dead-time to the pulse train table. To add a pulse, use “PULSE”. To add a dead-time, use “DEAD TIME”.

Group	Radar: Pulse train settings
Syntax	<code>RFXPress:RADAR:PULTrain:ADDElement</code>
Related Commands	RFXPress:SELApp
Arguments	String
Examples	<code>RFXPRESS:RADAR:PULTRAIN:ADDELEMENT “PULSE”</code> adds a pulse to the pulse train table. <code>RFXPRESS:RADAR:PULTRAIN:ADDELEMENT “DEAD TIME”</code> adds a dead time to the pulse train table.

RFXPress:RADAR:PULTrain:ANCHor

Sets or returns the pulse as anchor pulse in pulse train table. The specified index must contain a pulse group in the pulse train table.

Group Radar: Pulse train settings

Syntax RFXPress:RADAR:PULTrain:ANCHor
RFXPress:RADAR:PULTrain:ANCHor?

Related Commands [RFXPress:RADAR:PULTrain:ADDElement](#)
[RFXPress:RADAR:PULTrain:INSElement](#)

Arguments Integer

Returns Integer

Examples RFXPRESS:RADAR:PULTRAIN:ANCHOR 2 sets the second index as the anchor pulse.

RFXPress:RADAR:PULTrain:COUNT? (Query Only)

Returns the total count of all the pulse train elements present in the pulse train table. The returned value is the aggregate of all pulse and dead-time elements.

Group Radar: Pulse train settings

Syntax RFXPress:RADAR:PULTrain:COUNT?

Returns Integer

The output is the total count of all the pulse train elements (pulse or dead-time) present in the pulse train table as integer.

Examples RFXPRESS:RADAR:PULTRAIN:COUNT? returns the total count of all the pulse train elements (pulse or dead-time) present in the pulse train table as integer.

RFXPress:RADAR:PULTrain:DELEte (No Query Form)

Deletes the currently selected pulse or dead-time in the pulse train table. Select a pulse or dead-time in the pulse train table before using this command.

Group Radar: Pulse train settings

Syntax RFXPress:RADAR:PULTrain:DELEte

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)

Examples RFXPRESS:RADAR:PULTRAIN:DELETE deletes the currently selected element in the pulse train table.

RFXPress:RADAR:PULTrain:INSElement (No Query Form)

Inserts a new pulse or dead-time in the pulse train table.

Group Radar: Pulse train settings

Syntax RFXPress:RADAR:PULTrain:INSElement

Related Commands [RFXPress:RADAR:PULTrain:ADDElement](#)

Arguments String

Examples RFXPRESS:RADAR:PULTRAIN:INSELEMENT "PULSE" inserts a pulse to the pulse train table.

RFXPRESS:RADAR:PULTRAIN:INSELEMENT "DEAD TIME" inserts a dead time to the pulse train table.

RFXPress:RADAR:PULTrain:SELEct

Selects the pulse or dead-time at the specified index. The query form returns the currently selected index in the pulse train table.

Group Radar: Pulse train settings

Syntax	RFXPress:RADAR:PULTrain:SELECT RFXPress:RADAR:PULTrain:SELECT?
Related Commands	RFXPress:RADAR:PULTrain:ADDElement RFXPress:RADAR:PULTrain:INSElement
Arguments	Integer
Returns	Integer
Examples	RFXPRESS:RADAR:PULTRAIN:SELECT 2 selects the second element (pulse or dead-time) from the pulse train table. RFXPRESS:RADAR:PULTRAIN:SELECT? returns the currently selected element (pulse or dead-time) from the pulse train table.

RFXPress:RADAR:PULTrain:SELPulse:ADDITION:SELAll

Sets or returns the status of the pulse groups whether all the pulse groups are added together in time.

Group	Radar: Add pulse group
Syntax	RFXPress:RADAR:PULTrain:SELPulse:ADDITION:SELAll {<NR1> OFF ON} RFXPress:RADAR:PULTrain:SELPulse:ADDITION:SELAll?
Arguments	Boolean
Returns	Boolean
Examples	RFXPRESS:RADAR:PULTRAIN:SELPULSE:ADDITION:SELALL 1 sets the pulse addition status of all the pulse groups. RFXPRESS:RADAR:PULTRAIN:SELPULSE:ADDITION:SELALL? returns the pulse addition status of all the pulse groups.

RFXPress:RADAR:PULTrain:SELPulse:ADDItion:TURNon

Sets or returns the status of the currently selected pulse group as to whether it will be added in time. Select a pulse group in the pulse train table before using this command.

Group Radar: Add pulse group

Syntax RFXPress:RADAR:PULTrain:SELPulse:ADDItion:TURNon
 {<NR1>|OFF|ON}
 RFXPress:RADAR:PULTrain:SELPulse:ADDItion:TURNon?

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)

Arguments Boolean

Returns Boolean

Examples RFXPRESS:RADAR:PULTRAIN:SELPULSE:ADDITION:TURNON 1 sets the pulse addition status of the pulse at index 2 (the currently selected index) to On.
 RFXPRESS:RADAR:PULTRAIN:SELPULSE:ADDITION:TURNON? returns the pulse addition status of the pulse at index 2 (the currently selected index).

RFXPress:RADAR:PULTrain:TYPE? (Query Only)

Returns the type of the currently selected pulse train element from the pulse train table. Select a valid pulse or dead-time in the pulse train table before using this command.

Group Radar: Pulse train settings

Syntax RFXPress:RADAR:PULTrain:TYPE?

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)

Returns String

The string values returned are:

PULSE

DEAD TIME

Examples RFXPRESS:RADAR:PULTRAIN:TYPE? returns the type of the currently selected element (pulse or dead-time) from the pulse train table.

RFXPress:RFDFile:LOAD (No Query Form)

Loads the waveform contained in the specified .rfd file in to the waveform list. The name of the loaded waveform will be same as the file name of the .rfd file. If the waveform list already contains a waveform with the same name, then this waveform will be overwritten with the loaded one.

Group Data file

Syntax RFXPress:RFDFile:LOAD

Related Commands [RFXPress:RFDFile:SAVE](#)
[RFXPress:RFDFile:SELEct](#)

Arguments String

Examples RFXPRESS:RFDFILE:LOAD "E:\MyData.rfd" loads the waveform stored in "E:\MyData.rfd" in to the waveform list.

RFXPress:RFDFile:SAVE (No Query Form)

Saves the currently selected waveform in the waveform list to a .rfd file. The waveform list must contain at least one waveform and only one waveform from the waveform list must be selected.

Group Data file

Syntax RFXPress:RFDFile:SAVE

Related Commands [RFXPress:RFDFile:LOAD](#)
[RFXPress:RFDFile:SELEct](#)

Arguments String

Examples RFXPRESS:RFDFILE:SAVE "E:\MyData.rfd" saves the "Waveform1" from the waveform list to "E:\MyData.rfd".

RFXPress:RFDFile:SELEct (No Query Form)

Selects the specified waveform in the waveform list. The waveform list must contain the specified waveform.

Group Data file

Syntax RFXPress:RFDFile:SELEct

Related Commands [RFXPress:RFDFile:LOAD](#)
[RFXPress:RFDFile:SAVE](#)

Arguments String

Examples RFXPRESS:RFDFILE:SELECT "waveform" selects "Waveform1" in the waveform list.

RFXPress:RFSFile:LOAD (No Query Form)

Loads the specified .rfs file.

Group File

Syntax RFXPress:RFSFile:LOAD

Related Commands [RFXPress:RFSFile:SAVE](#)

Arguments String

Examples RFXPRESS:RFSFILE:LOAD "E:\MySetup.rfs" loads the setup "E:\MySetup.rfs".

RFXPress:RFSFile:SAVE (No Query Form)

Saves the currently selected plug-in information to an .rfs file. The plug-in to be saved must first be selected first.

Group File

Syntax RFXPress:RFSFile:SAVE

Related Commands [RFXPress:RFSFile:LOAD](#)

Arguments String

Examples RFXPRESS:RFSFILE:SAVE "E:\MySetup.rfs" saves the setup as "E:\MySetup.rfs".

RFXPress:RSTDefault (No Query Form)

Restores the default setup for the currently selected plug-in. The plug-in to be reset must first be selected.

Group File

Syntax RFXPress:RSTDefault

Examples RFXPRESS:RSTDEFAULT restores the default setup.

RFXPress:SELApp

Sets or returns the currently selected application.

Group Launch

Syntax RFXPress:SELApp
RFXPress:SELApp?

Related Commands [RFXPress](#)

Arguments	String The string values are: Generic signal UWB-wiMedia Radar OFDM
Returns	String The string values returned are: Generic signal UWB-wiMedia Radar OFDM
Examples	RFXPRESS:SELAPP "Radar" selects the Radar application. RFXPRESS:SELAPP? returns the currently selected application.

RFXPress:RADAR:PULSe:MODUlation:UPDN:SWPRange

Sets or returns the sweep range in the Up-Down Chirp modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Up-Down Chirp modulation before using this command.

Group	Radar: Pulse modulation
Syntax	RFXPress:RADAR:PULSe:MODUlation:UPDN:SWPRange RFXPress:RADAR:PULSe:MODUlation:UPDN:SWPRange?
Related Commands	RFXPress:RADAR:PULTrain:SELEct RFXPress:RADAR:PULSe:MODUlation
Arguments	Real
Returns	Real

Examples `RFXPRESS:RADAR:PULSE:MODULATION:UPDN:SWPRANGE 12e6` sets the sweep range for the currently selected pulse to 12 MHz.

`RFXPRESS:RADAR:PULSE:MODULATION:UPDN:SWPRANGE?` returns the sweep range for the currently selected pulse.

RFXPress:RADAR:PULSe:MODUlation:USFM:AMPLitude

Sets or returns the amplitude for the selected step in the User-defined Step FM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step FM AM before using this command.

Group Radar: Pulse modulation

Syntax `RFXPress:RADAR:PULSe:MODUlation:USFM:AMPLitude`
`RFXPress:RADAR:PULSe:MODUlation:USFM:AMPLitude?`

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSe:MODUlation](#)
[RFXPress:RADAR:PULSe:MODUlation:USFM:SELStep](#)

Arguments Real

Returns Real

Examples `RFXPRESS:RADAR:PULSE:MODULATION:USFM:AMPLITUDE -30` sets the amplitude for the currently selected pulse to -30 dB.

`RFXPRESS:RADAR:PULSE:MODULATION:USFM:AMPLITUDE?` returns the amplitude for the currently selected pulse.

RFXPress:RADAR:PULSe:MODUlation:USPM:ADDN (No Query Form)

Adds 'n' user defined code steps in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.

Group Radar: Pulse modulation

Syntax RFXPress:RADAR:PULSE:MODULATION:USPM:ADDN

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSE:MODULATION](#)

Arguments Integer

Returns Integer

Examples RFXPRESS:RADAR:PULSE:MODULATION:USPM:ADDN 6 adds 6 user defined steps for the currently selected pulse.

RFXPress:RADAR:PULSE:MODULATION:BPSK:SYMBOLS

Sets or returns the number of symbols in the BPSK modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to BPSK modulation before using this command.

Group Radar: Pulse modulation

Syntax RFXPress:RADAR:PULSE:MODULATION:BPSK:SYMBOLS
RFXPress:RADAR:PULSE:MODULATION:BPSK:SYMBOLS?

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSE:MODULATION](#)

Arguments Integer

Returns Integer

Examples RFXPRESS:RADAR:PULSE:MODULATION:BPSK:SYMBOLS 25 sets the number of symbols for the BPSK modulation for the currently selected pulse to 25.

RFXPRESS:RADAR:PULSE:MODULATION:BPSK:SYMBOLS? returns the number of symbols for the BPSK modulation for the currently selected pulse.

RFXPress:RADAR:PULSE:MODULATION:BPSK:SAME

Sets or returns the status of “Same symbols for all pulses” for the BPSK modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to BPSK modulation before using this command.

Group Radar: Pulse modulation

Syntax RFXPress:RADAR:PULSE:MODULATION:BPSK:SAME {<NR1>|OFF|ON}
RFXPress:RADAR:PULSE:MODULATION:BPSK:SAME?

Related Commands [RFXPress:RADAR:PULTrain:SELEct](#)
[RFXPress:RADAR:PULSE:MODULATION](#)

Arguments Boolean

Returns Boolean

Examples RFXPRESS:RADAR:PULSE:MODULATION:BPSK:SAME 1 sets the “Same symbols for all pulses” status for the currently selected pulse group to ON.
RFXPRESS:RADAR:PULSE:MODULATION:BPSK:SAME? returns the “Same symbols for all pulses” status for the currently selected pulse group.

RFXPress:WLISt:CALibration:APPLY (No Query Form)

Applies calibration on the selected files in the waveform list. Select the waveform to calibrate using the [RFXPress:WLISt:SELWaveform](#) command.

Group Waveform list

Syntax RFXPress:WLISt:CALibration:APPLY

Related Commands [RFXPress:WLISt:SELWaveform](#)
[RFXPress:WLISt:CLRSelect](#)

Arguments String

Returns String

Examples RFXPRESS:WLIST:CALIBRATION:APPLY "C:\RFRSA.rfc" applies calibration with the correction file "C:\RFRSA.rfc" on the selected waveforms in the waveform list.

RFXPress:WLIST:CLRSelect (No Query Form)

Clears the selected waveforms from the waveform list.

Group Waveform list

Syntax RFXPress:WLIST:CLRSelect

Related Commands [RFXPress:WLIST:SELWaveform](#)

Examples RFXPRESS:WLIST:CLRSELECT clears the selected waveforms from the waveform list.

RFXPress:WLIST:SELWaveform (No Query Form)

Selects the waveforms from the waveform list. The input waveform name should be present in the waveform list.

Group Waveform list

Syntax RFXPress:WLIST:SELWaveform

Arguments String

Returns String

Examples RFXPRESS:WLIST:SELWAVEFORM "TEST1" selects the waveform "Test1" from the waveform list.

RFXPRESS:WLIST:SELWAVEFORM "TEST1_I", "TEST1_Q" selects the waveforms "Test1_I" and "Test1_Q" from the waveform list.

Status and Events

Status and Events

There is no status and event information.

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