

Specifications

	R&S FSQ3	R&S FSQ8	R&S FSQ26
Specifications apply under the following conditions: 30 minutes warmup time at ambient temperature, specified environmental conditions met, calibration cycle adhered to, and total calibration performed. Data without tolerances: typical values only. Specifications designated nominal apply to design parameters and are not tested. Specification of $\sigma = xx$ dB refers to standard uncertainty.			
Frequency			
Frequency range			
DC coupled	20 Hz to 3.6 GHz	20 Hz to 8 GHz	20 Hz to 26.5 GHz
AC coupled	1 MHz to 3.6 GHz	1 MHz to 8 GHz	10 MHz to 26.5 GHz
Frequency resolution	0.01 Hz		
Internal reference frequency (nominal) with standard OCXO			
Aging per day ¹⁾	1 x 10 ⁻⁹		
Aging per year ¹⁾	1 x 10 ⁻⁷		
Temperature drift (0°C to 50°C)	8 x 10 ⁻⁸		
Total error (per year) ¹⁾	2 x 10 ⁻⁷		
Internal reference frequency (nominal); option R&S FSU-B4			
Aging per day ¹⁾	2 x 10 ⁻¹⁰		
Aging per year ¹⁾	3 x 10 ⁻⁸		
Temperature drift (0°C to 50°C)	1 x 10 ⁻⁹		
Total error (per year) ¹⁾	5 x 10 ⁻⁸		
External reference frequency			
Frequency display	1 MHz to 20 MHz, in 1 Hz steps		
Marker resolution	with marker or frequency counter		
Accuracy (sweep time >3 x auto sweep time)	0.1 Hz to 10 kHz (depending on span)		
Frequency counter resolution	$\pm(\text{marker frequency} \times \text{reference error} + 0.5\% \times \text{span} + 10\% \times \text{resolution bandwidth} + \frac{1}{2} \text{ (last digit)})$		
Count accuracy (S/N >25 dB)	0.1 Hz to 10 kHz (selectable)		
Frequency span	$\pm(\text{frequency} \times \text{reference error} + \frac{1}{2} \text{ (last digit)})$		
Resolution/accuracy of span	0 Hz, 10 Hz to 3.6 GHz	0 Hz, 10 Hz to 8 GHz	0 Hz, 10 Hz to 26.5 GHz
	0.1 Hz/1%		
Spectral purity (dBc (1 Hz)), SSB phase noise, f = 640 MHz			
Carrier offset			
10 Hz	typ. -73 dBc (1 Hz), with option R&S FSU-B4 typ. -86 dBc		
100 Hz	<-90 dBc (1 Hz), -104 dBc (1 Hz) typ.		
1 kHz	<-112 dBc (1 Hz), -118 dBc (1 Hz) typ.		
10 kHz	<-120 dBc (1 Hz), -123 dBc (1 Hz) typ.		
100 kHz	<-120 dBc (1 Hz), -123 dBc (1 Hz) typ.		
1 MHz	<-138 dBc (1 Hz), -144 dBc (1 Hz) typ.		
10 MHz	<-155 dBc (1 Hz) nominal, -160 dBc (1 Hz) typ.		
Sweep			
Span 0 Hz	1 μ s to 16000 s in steps of 5%		
Span \geq 10 Hz	2.5 ms to 16000 s in steps \leq 10%		
Max. deviation of sweep time	3%		
Measurement in time domain	with marker and display lines (resolution 31.25 ns)		
Resolution bandwidths			
3 dB bandwidths	10 Hz to 20 MHz, in 1/2/3/5 sequence, 50 MHz		
Bandwidth accuracy			
10 Hz to 100 kHz (digital Gaussian)	<3%		
200 kHz to 5 MHz (analog Gaussian)	<10%		
10 MHz, 20 MHz	-30% to +10%		
50 MHz	-30% to +10%	-30% to +10% for f<3.6 GHz -30% to +100% for f> 3.6 GHz	
Shape factor -60 dB:-3 dB			
\leq 100 kHz	<6		
200 kHz to 2 MHz	<12		
3 MHz to 10 MHz	<7		
20 MHz, 50 MHz	<6, nominal		
Video bandwidths	1 Hz to 10 MHz, in 1/2/3/5 sequence		

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FFT filters			
6 dB bandwidths	1 Hz to 30 kHz in 1/2/3/5 sequence		
Bandwidth accuracy	<5%, nominal		
Shape factor –60 dB:–3 dB	<3, nominal		
EMI filters			
6 dB bandwidths	200 Hz, 9 kHz and 120 kHz		
Bandwidth accuracy	<3%, nominal		
Shape factor –60 dB:–3 dB	<6, nominal		
Channel filters			
Bandwidth	100; 200; 300; 500 Hz; 1; 1.5; 2; 2.4; 2.7; 3; 3.4; 4; 4.5; 5; 6; 8.5; 9; 10; 12.5; 14; 15; 16; 18 (RRC); 20; 21; 24.3 (RRC); 25; 30; 50; 100; 150; 192; 200; 300; 500 kHz; 1; 1.228; 1.5; 1.516; 2; 3; 5 MHz		
Bandwidth accuracy	2%, nominal		
Shape factor –60 dB:–3 dB	<2, nominal		
Level			
Display range	displayed average noise level to 30 dBm		
Maximum input level			
DC voltage (AC coupled)	50 V		
DC voltage (DC coupled)	0 V		
RF attenuation 0 dB			
CW RF power	20 dBm (=0.3 W)		
Pulse spectral density	97 dB μ V/MHz		
RF attenuation ≥ 10 dB			
CW RF power	30 dBm (=1 W)		
Max. pulse voltage	150 V		
Max. pulse energy (10 μ s)	1 mWs		
1 dB compression of input mixer (0 dB RF attenuation)	+13 dBm nominal	+13 dBm nominal up to 3.6 GHz	
		+10 dBm nominal from 3.6 GHz to 8 GHz	+7 dBm nominal from 3.6 GHz to 26 GHz
Intermodulation			
Third-order intermodulation distortion			
Third-order intercept (TOI), level 2 x –10 dBm, $\Delta f > 5$ x RBW or 10 kHz, whichever is larger	>17 dBm, 20 dBm typ. for f=10 MHz to 300 MHz >20 dBm, 25 dBm typ. for f >300 MHz	>17 dBm, 20 dBm typ. for f=10 MHz to 300 MHz >20 dBm, 25 dBm typ. for f=300 MHz to 3.6 GHz >19 dBm, 23 dBm typ. for f=3.6 GHz to 8 GHz	>17 dBm, 20 dBm typ. for f=10 MHz to 300 MHz >22 dBm, 27 dBm typ. for f=300 MHz to 3.6 GHz >12 dBm, 15 dBm typ. for f=3.6 GHz to 26.5 GHz
Second harmonic intercept (SHI)			
$f_{in} \leq 100$ MHz	>35 dBm		
$100 \text{ MHz} < f_{in} \leq 400$ MHz	>45 dBm, 55 dBm typ.		
$400 \text{ MHz} < f_{in} \leq 500$ MHz	>52 dBm, 60 dBm typ.		
$500 \text{ MHz} < f_{in} \leq 1$ GHz	>45 dBm, 55 dBm typ.		
$1 \text{ GHz} < f_{in} \leq 1.8$ GHz	>35 dBm		
$f_{in} > 1.8$ GHz	–	>80 dBm (nominal)	
Displayed average noise level (0 dB RF attenuation, RBW 10 Hz, VBW 30 Hz, 20 averages, trace average, span 0 Hz, 50 Ω termination)			
Frequency			
20 Hz	<–80 dBm		
100 Hz	<–100 dBm		
1 kHz	<–110 dBm		
10 kHz	<–120 dBm		
100 kHz	<–126 dBm		
1 MHz	<–136 dBm		
10 MHz to 2 GHz	<–145 dBm, –148 dBm typ.		<–142 dBm, –146 dBm typ.
2 GHz to 3 GHz	<–143 dBm, –147 dBm typ.		<–140 dBm, –143 dBm typ.
3 GHz to 3.6 GHz	<–142 dBm, –146 dBm typ.		<–140 dBm, –142 dBm typ.
3.6 GHz to 7 GHz	–	<–140 dBm, –142 dBm typ.	<–141 dBm, –145 dBm typ.
7 GHz to 8 GHz	–	<–139 dBm, –141 dBm typ.	<–141 dBm, –145 dBm typ.
8 GHz to 13 GHz	–	–	<–139 dBm, –143 dBm typ.

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13 GHz to 18 GHz	–		<–137 dBm, –141 dBm typ.
18 GHz to 22 GHz	–		<–135 dBm, –138 dBm typ.
22 GHz to 26.5 GHz	–		<–133 dBm, –136 dBm typ.
Log level display, RBW ≤100 kHz, S/N >20 dB			
Maximum dynamic range 1 dB compression to DANL (1 Hz)		170 dB	
Immunity to interference			
Image frequency			
f ≤3.6 GHz		>90 dB, >110 dB typ.	
f >3.6 GHz	–	>70 dB, 100 dB typ.	
Intermediate frequency			
f ≤3.6 GHz		>90 dB, >110 dB typ.	
3.6 GHz ≤ f ≤4.2 GHz	–	70 dB typ.	
f >4.2 GHz	–	>70 dB, >90 dB typ.	
Spurious responses (f >1 MHz, without input signal, 0 dB attenuation)		<–103 dBm	
Other spurious ($\Delta f >100$ kHz)			
$f_{in} <2.3$ GHz		<–80 dBc (mixer level ≤ –10 dBm)	
$2.3 \text{ GHz} \leq f_{in} <4$ GHz		<–70 dBc (mixer level ≤ –35 dBm)	
$4 \text{ GHz} \leq f_{in} <26.5$ GHz		<–80 dBc (mixer level ≤ –10 dBm)	
Level display (spectrum mode)			
Screen	625 x 500 pixels (one diagram), max. 2 diagrams with independent settings		
Logarithmic level axis	1 dB, 10 dB to 200 dB in 10 dB steps		
Linear level axis	10% of reference level per level division, 10 divisions or logarithmic scaling		
Traces	max. 6 with 2 diagrams on screen, max. 3 per diagram		
Trace detectors	Max Peak, Min Peak, Auto Peak (Normal), Sample, RMS, Average, Quasi Peak		
Trace functions	Clear/Write, Max Hold, Min Hold, Average		
Number of measurement points	625, settable between 155 and 100001 in steps of approx. factor 2		
Setting range of reference level			
Logarithmic level display	–130 dBm to (+5 dBm + RF attenuation), max. 30 dBm, in 0.1 dB steps		
Linear level display	7.0 nV to 7.07 V, in steps of 1 %		
Units of level axis	dBm, dB μ V, dBmV, dB μ A, dBpW (log level display) μ V, mV, μ A, mA, pW, nW (linear level display)		
Level measurement accuracy			
Reference error at 128 MHz, RBW ≤ 100 kHz, reference level –30 dBm, RF attenuation 10 dB		<0.2 ($\sigma = 0.07$) dB	
Frequency response (DC coupling, RF attenuation ≥10 dB)			
10 MHz to 3.6 GHz		<0.3 dB ($\sigma = 0.1$ dB) ²⁾	
3.6 GHz to 8 GHz	–	<1.5 dB ($\sigma = 0.5$ dB) ³⁾	
8 GHz to 22 GHz	–	–	<2 dB ($\sigma = 0.7$ dB) ³⁾
22 GHz to 26.5 GHz	–	–	<2.5 dB ($\sigma = 0.8$ dB) ³⁾
Attenuator (≥5 dB)		<0.2 dB ($\sigma = 0.07$ dB)	
Reference level switching		<0.15 dB ($\sigma = 0.05$ dB)	
Display nonlinearity (20 °C to 30 °C, mixer level ≤ –10 dBm)			
Logarithmic level display RBW ≤100 kHz, S/N >20 dB			
0 dB to –70 dB		<0.1 dB ($\sigma = 0.03$ dB)	
–70 dB to –90 dB		<0.3 dB ($\sigma = 0.1$ dB)	
Logarithmic level display RBW ≥ 200 kHz, S/N >16 dB			
0 dB to –50 dB		<0.2 dB ($\sigma = 0.07$ dB)	
–50 dB to –70 dB		<0.5 dB ($\sigma = 0.17$ dB)	
Linear level display		5% of reference level	

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Bandwidth switching uncertainty (ref. to RBW = 10 kHz)			
10 Hz to 100 kHz		–	
200 kHz to 10 MHz		<0.2 dB ($\sigma = 0.07$ dB)	
5 MHz to 50 MHz		<0.5 dB ($\sigma = 0.15$ dB)	
FFT 1 Hz to 3 kHz		<0.2 dB ($\sigma = 0.07$ dB)	
Total measurement uncertainty (0 dB to –70 dB, S/N >20 dB, span/RBW <100, 95% confidence level, 20°C to 30°C, mixer level \leq –10 dBm)			
<3.6 GHz		0.3 dB for RBW \leq 100 kHz 0.5 dB for RBW >100 kHz	
3.6 GHz to 8 GHz	–		< 1.5 dB ²⁾
8 GHz to 22 GHz	–		< 2.0 dB ²⁾
22 GHz to 26.5 GHz	–		< 2.5 dB ²⁾
I/Q data			
General			
Sampling rate	programmable: 10 kHz to 81.6 MHz in 0.1 Hz steps		
ADC resolution	14 bit		
I/Q memory	16 Msample each for I and Q data		
RF path			
Max. information bandwidth	28 MHz		
Harmonic distortion (with full-scale input signal)	<–70 dBc typ.		
3rd order distortion (with two input tones 6 dB below full scale)	<–80 dBc typ.		
LO feedthrough ($f_{I/Q} = 81.6 \text{ MHz} - f_{\text{center}}$) (mixer level = –10 dBm)	<–65 dBfs typ.		
Aliased DC offset ($f_{I/Q} = 20.4 \text{ MHz}$, within $\pm 10 \text{ K}$ temperature change after I/Q or total calibration)	<–65 dBfs typ.		
Frequency response (within $2/3$ RBW; RBW = 3, 5, 10, 20, 50 MHz)			
$f \leq 3.6 \text{ GHz}$			0.3 dB typ.
$f > 3.6 \text{ GHz}$	–		0.5 dB typ.
Linear phase error (within $2/3$ RBW; RBW = 3, 5, 10, 20, 50 MHz)			
$f \leq 3.6 \text{ GHz}$			1° dB typ.
$f > 3.6 \text{ GHz}$			2° dB typ.
Audio demodulation			
Modulation modes			
Modulation modes	AM and FM		
Audio output	loudspeaker and headphones output		
Marker hold time in spectrum mode	100 ms to 60 s		
Trigger functions			
Trigger			
Span $\geq 10 \text{ Hz}$			
Trigger source	free run, video, external, IF level (selectable, mixer level 10 dBm to –50 dBm)		
Trigger offset	125 ns to 100 s, resolution 125 ns min. (or 1% of offset)		
Span = 0 Hz			
Trigger source	free run, video, external, IF level (mixer level 10 dBm to –50 dBm)		
Trigger offset	$\pm(125 \text{ ns to } 100 \text{ s})$, resolution 125 ns min., dependent on sweep time		
Trigger offset accuracy	$\pm(125 \text{ ns} + (0.1\% \times \text{delay time}))$		
Gated sweep			
Trigger source	external, IF level, video		
Gate delay	1 μs to 100 s		
Gate length	125 ns to 100 s, resolution 125 ns min. or 1% of gate length		
Gate length accuracy	$\pm(125 \text{ ns} + (0.05\% \times \text{gate length}))$		

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Inputs and outputs (front panel)			
RF input	N female, 50 Ω		test port adapter APC 3.5 mm, 50 Ω
VSWR, RF attenuation ≥ 10 dB, DC coupling			
f < 3.6 GHz	<1.5		
f < 8 GHz	–	<2.0	<1.8
f < 18 GHz	–	–	<1.8
f < 26.5 GHz	–	–	<2.0
RF attenuation <10 dB, f < 3.6 GHz	1.5 typ.		
Setting range of attenuator	0 dB to 75 dB, in 5 dB steps		
Probe power supply	+15 V DC, –12.6 V DC and ground, 150 mA max. (nominal)		
Power supply for antennas	5-pin connector		
Supply voltages	± 10 V and ground, 100 mA max. (nominal)		
Power supply connector for noise source	BNC female, 0 V and 28 V, switchable, 100 mA max. (nominal)		
Keyboard	US character set		
Keyboard connector	PS/2 female for MF2 keyboard		
AF output			
NF output	3.5 mm mini jack		
Output impedance	10 Ω		
Open-circuit voltage	up to 1.5 V, adjustable		
Inputs and outputs (rear panel)			
IF 20.4 MHz	$R_i = 50 \Omega$, BNC female		
Bandwidth			
RBW < 30 kHz	1.67 x resolution bandwidth, 2.6 kHz min.		
RBW = 50 kHz, 100 kHz	400 kHz		
10 MHz \geq RBW \geq 200 kHz	same as resolution bandwidth		
Level			
RBW \leq 100 kHz, FFT	–20 dBm at reference level, mixer level > -70 dBm		
10 MHz \geq RBW \geq 200 kHz	0 dBm at reference level, mixer level > -50 dBm		
IF 404.4 MHz	$Z_{out} = 50 \Omega$, BNC female; output IF 404.4 MHz, only active if RBW > 10 MHz		
Bandwidth			
RBW > 10 MHz	same as resolution bandwidth		
Level			
Mixer level \leq 0 dBm	mixer level –10 dB typ.		
Video output	$Z_{out} = 50 \Omega$, BNC female		
Voltage (RBW \geq 200 kHz)	0 V to 1 V, full scale (open-circuit voltage), logarithmic scaling		
Reference frequency			
Output	BNC female		
Output frequency	10 MHz		
Level			
Input frequency range	1 MHz to 20 MHz in 1 Hz steps		
Required level	> 0 dBm from 50 Ω		
Sweep output	BNC female, 0 V to 5 V, proportional to displayed frequency		
External trigger/gate input	BNC female, $> 10 \text{ k}\Omega$		
Trigger voltage	1.4 V		
IEC/IEEE bus remote control	interface to IEC-625-2 (IEEE 488.2)		
Command set	SCPI 1997.0		
Connector	24-pin Amphenol female		
Interface functions	SH1, AH1, T6, L4, SR1, RL1, PP1, DC1, DT1, C0		
LAN interface	10/100Base/T, RJ45		
Serial interface	RS-232-C (COM), 9-pin D-SUB female		
Printer interface	parallel (Centronics-compatible)		
Mouse connector	PS/2-compatible		
Connector for external monitor (VGA)	15-pin D-SUB female		

	R&S FSQ3	R&S FSQ8	R&S FSQ26
General specifications			
Display	21 cm TFT LCD colour display (8.4")		
Resolution	800 x 600 pixels (SVGA resolution)		
Pixel failure rate	<1 x 10 ⁻⁵		
Mass memory	1.44 Mbyte 3½ " disk drive, hard disk		
Temperature ranges			
Operating temperature range	+5 °C to +40 °C		
Permissible temperature range	+0 °C to +50 °C		
Storage temperature range	-40 °C to +70 °C		
Damp heat	+40 °C at 95% relative humidity (DIN EN 60068-2-3)		
Mechanical resistance			
Vibration, sinusoidal	5 Hz to 150 Hz, max. 2 g at 55 Hz; 0.5 g const. from 55 Hz to 150 Hz; meets DIN EN 60068-2-6, DIN EN 60068-2-3, IEC 61010, MIL-T-28800D, class 5		
Vibration, random	10 Hz to 100 Hz, acceleration 1 g (rms)		
Shock	40 g shock spectrum, meets MIL-STD-810C and MIL-T-28800D, classes 3 and 5		
Recommended calibration interval	2 years for operation with external reference, 1 year with internal reference		
RFI suppression	meets EMC directives of EU (89/336/EEC) and German EMC law		
Power supply			
AC supply	100 V to 240 V AC, 3.1 A to 1.3 A, 50 Hz to 400 Hz, protection class I to VDE 411		
Power consumption	130 VA typ.	150 VA typ	
Safety	meets EN 61010-1, UL 3111-1, CSA C22.2 No. 1010-1		
Test mark	VDE, GS, CSA, CSA-NRTL		
Dimensions in mm (W x H x D)	435 x 192 x 460		
Weight	14.6 kg	15.4 kg	15.6 kg

¹⁾ After 30 days of continuous operation.

²⁾ Valid for temperature range 20 °C to 30 °C, <0.6 dB for temperature range 5 °C to 45 °C.

³⁾ Valid for temperature range 20 °C to 30 °C and span <1 GHz; add <0.5 dB for temperature range 5 °C to 45 °C or span >1 GHz.



Optional Electronic Attenuator R&S FSU-B25

Frequency	
Frequency range	
R&S FSQ 3	10 MHz to 3.6 GHz
R&S FSQ 8	10 MHz to 8 GHz
R&S FSQ26	10 MHz to 3.6 GHz
Setting range	
Electronic attenuator	0 dB to 30 dB, 5 dB steps
Preamplifier	20 dB, switchable
Level measurement accuracy	
Frequency response, with preamplifier or electronic attenuator	
10 MHz to 50 MHz	<1 dB
50 MHz to 3.6 GHz	<0.6 dB
3.6 GHz to 8 GHz	<2.0 dB
Reference accuracy at 128 MHz, RBW ≤ 100 kHz, reference level –30 dBm, RF attenuation 10 dB	
Electronic attenuator	<0.3 dB
Preamplifier	<0.3 dB
Displayed average noise level	
RBW = 1 kHz, VBW = 3 kHz, zero span, sweep time 50 ms, 20 averages, mean marker, normalized to 10 Hz RBW	
Preamplifier on	
10 MHz to 2.0 GHz	<–152 dBm
2.0 GHz to 3.6 GHz	<–150 dBm
3.6 GHz to 8.0 GHz	<–147 dBm
With the R&S FSU-B25 option built-in, the DANL values of the basic units degrade by (R&S FSU-B25 off):	
20 Hz to 3.6 GHz	1 dB
3.6 GHz to 8 GHz	2 dB
Preamplifier off, electronic attenuator 0 dB	
20 Hz to 3.6 GHz	2.5 dB typ.
3.6 GHz to 8 GHz	3.5 dB typ.
Intermodulation	
Third-order intermodulation, third-order intercept (TOI), electronic attenuator on, $\Delta f > 5 \times$ RBW or 10 kHz	
10 MHz to 300 MHz	>17 dBm
300 MHz to 3.6 GHz	>20 dBm
3.6 GHz to 8 GHz	>18 dBm

Ordering information

Order designation	Type	Order No.
Signal Analyzer 20 Hz to 3.6 GHz	R&S FSQ3	1155.5001.03
Signal Analyzer 20 Hz to 8 GHz	R&S FSQ8	1155.5001.08
Signal Analyzer 20 Hz to 26.5 GHz	R&S FSQ26	1155.5001.26

Accessories supplied

Power cable, operating manual, service manual, R&S FSQ26: test port adapter 3.5 mm female (1021.0512.00) and N female (1021.0535.00) connector

Options

Order designation	Type	Order No.
Options		
Highly Accurate Reference Frequency	R&S FSU-B4	1144.9000.02
External Generator Control	R&S FSP-B10	1129.7246.02
Electronic Attenuator 0 dB to 30 dB and 20 dB Preamplifier	R&S FSU-B25	1144.9298.02
Software		
Noise Measurement Software	R&S FS-K3	1057.3028.02
Phase Noise Measurement Software	R&S FS-K4	1108.0088.02
GSM/EDGE Application Firmware	R&S FS-K5	1141.1496.02
FM Measurement Demodulator	R&S FS-K7	1141.1796.02
3GPP BTS/NodeB FDD Application Firmware	R&S FS-K72	1154.7000.02
WLAN Application Software		on request

Recommended extras

Order designation	Type	Order No.
Headphones	–	0708.9010.00
US Keyboard with trackball	R&S PSP-Z2	1091.4100.02
PS/2 Mouse	R&S FSE-Z2	1084.7043.02
Colour Monitor, 17", 230 V	R&S PMC3	1082.6004.04
IEC/IEEE Bus Cable, 1 m	R&S PCK	0292.2013.10
IEC/IEEE Bus Cable, 2 m	R&S PCK	0292.2013.20
19" Rack Adapter	R&S ZZA-411	1096.3283.00
Adapter for mounting on telescopic rails (only with 19" Adapter ZZA-411)	R&S ZZA-T45	1109.3774.00

Matching Pads, 75 Ω

L Section	R&S RAM	0358.5414.02
Series Resistor, 25 Ω	R&S RAZ	0358.5714.02

SWR Bridges

SWR Bridge, 5 MHz to 3 GHz	R&S ZRB2	0373.9017.52
SWR Bridge, 40 kHz to 4 GHz	R&S ZRC	1039.9492.52

High-Power Attenuators, 100 W

3/6/10/20/30 dB	R&S RBU 100	1073.8820.XX (XX=03/06/10/20/30)
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High-Power Attenuators, 50 W

3/6/10/20/30 dB	R&S RBU 50	1073.8895.XX (XX=03/06/10/20/30)
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