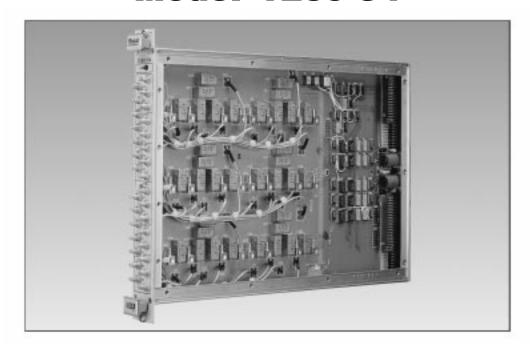
SWITCHING



1.3GHz RF Multiplexer Module Model 1260-54



- Configured as Six 1x4 Tree Multiplexers
- Ideal for VHF/UHF Matrix Building Block
- Excellent Crosstalk, Isolation and VSWR Performance to 1.3GHz
- Optional Termination of Input Signals
- Low Noise Performance Supports Switching of Low-level RF Signals

Model 1260-54 is ideal for high-performance RF applications. The tree configuration eliminates the effect of unterminated stubs which would otherwise severely limit bandwidth performance. Unused inputs may be terminated into optional on-board 50Ω impedances.

The 1260-54 can be used for switching signals from oscilloscopes, spectrum, network or distortion analyzers to a unit under test. The module consists of six independent banks of channels configured as 1x4 multiplexers.

Only one connection at a time can be made to each common bus. Unused inputs may be terminated into optional terminators (purchased separately). There is also a fifth, no connect, position for each bank for situations when no signal is desired on the common bus.

Relay coil current monitoring is available to provide confidence checking. This gives the user assurance of proper relay operation. The 1260-54 is controlled by the Option 01 message-based interface which is explained in detail on the Smart Card Module page. All 1260 control features explained on that page are available to this module.

1260-54C/D Specifications

Maximum Switchable Voltage

(Signal-Ground)

30VDC or 100VACrms

Maximum Switchable Current

Per Channel: 1.5ADC or ACrms

Maximum Switchable Power

Per Channel: 60W DC, 60VA, 150W@100MHz, 70W @ 500MHz,

40W @ 1GHz

DC PERFORMANCE

Path Resistance

1.0Ω

Thermal EMF

<40μV

DC Isolation

>10⁻⁸Ω

AC PERFORMANCE (into 50Ω)

Bandwidth (-3dB)

1.3GHz

Insertion Loss

100MHz: <0.5dB 500MHz: <1.5dB 1GHz: <2.0dB

Crosstalk Across Groups

100MHz: <-100dB 500MHz: <-80dB 1GHz: <-60dB 1.3GHz: <-50dB

Isolation Between Channels

100MHz: <-80dB 500MHz: <-65dB 1GHz: <-55dB 1.3GHz: <-40dB

VSWR

100MHz: 1.1:1 500MHz: 1.25:1 1GHz: 1.75:1 1.3GHz: 1.75:1

VXIbus INTERFACE DATA

Cooling Requirements

Airflow: 1.0 liters/sec Backpressure: 0.05mm H_a0

With Option 01S/T

Airflow: 2.0 liters/sec Backpressure: 0.2mm H₂0

Power Requirements

+5V: 0.4A (2.8A with Option 01

installed)

+12V: 10mA per relay (energized)

Weight

2.59 lb (1.17 kg) without Option 01 2.87 lb (1.29 kg) with Option 01

Dimensions

C-size, Single-slot VXIbus Module

User Connector

SMC (not supplied)

Terminations

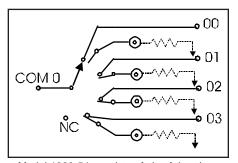
SMB (not supplied)

Typical Programming Syntax

Programming Syntax is in the "<module address> . <channel>" Example: CLOSE 3.02. This CLOSE statement will close

channel number 2 on the 1260-54 at card address 3.

The CE Mark indicates that the product has completed and passed rigorous testing in the area of RF Emissions, Immunity to Electromagnetic Disturbances and complies with European electrical safety standards.



Model 1260-54 consists of six of the above 1x4 tree multiplexers. Each channel has the capability of being terminated to an optional 50Ω terminator. One tree is shown.

ORDERING INFORMATION		
Model	Description	Part Number
1260-54	Six 1x4 Trees 1.3GHz can be terminated	404768
404664	50 ohm terminator (kit of 4) order separately	404664
Option 01*	Smart Card Module (installed)	OPT-401901-005
*One Option 01 must be ordered with switch system. Please specify the card on which Option 01 will be installed.		





