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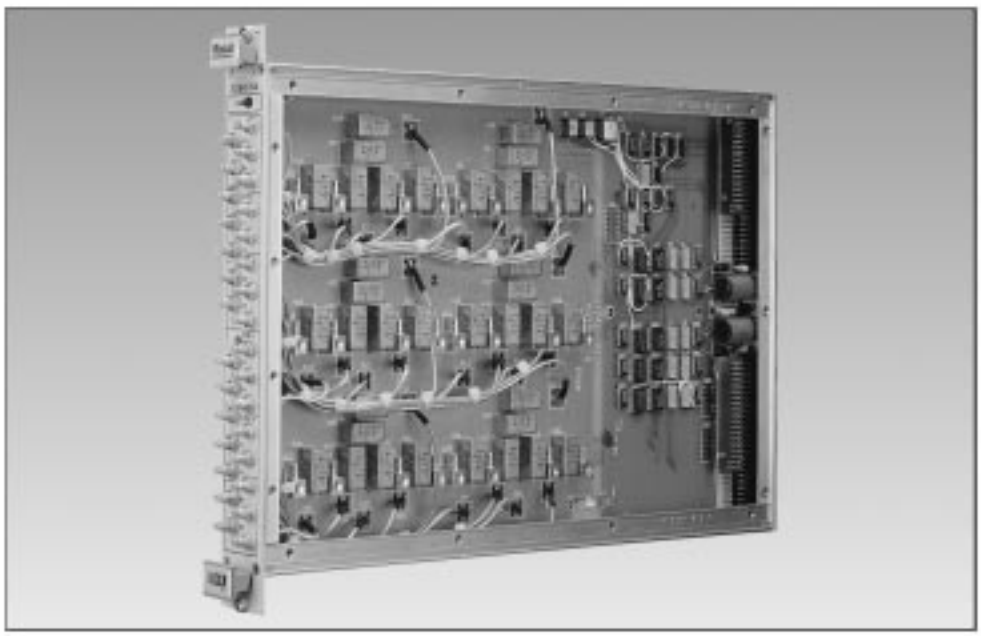
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Find the *Astronics / EADS / Racal 1260-54* at our website: ***Click HERE***

# 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.

*For your local Racal Instruments Sales Office see page 173.*



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# 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**
$>10^{-8}\Omega$

## AC PERFORMANCE (into 50Ω)

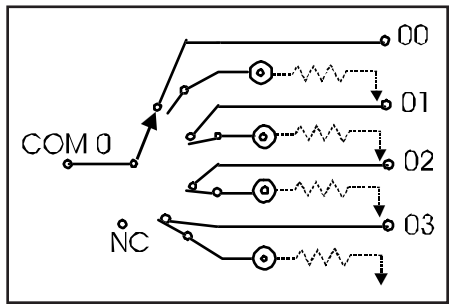
**Bandwidth** (-3dB)
1.3GHz
**Insertion Loss**
100MHz: <0.5dB
500MHz: <1.5dB
1GHz: <2.0dB
**Crosstalk Across Groups**
100MHz: <-100dB
500MHz: <-80dB
1GHz: <-60dB
1.3GHz: <-50dB
**Isolation Between Channels**
100MHz: <-80dB
500MHz: <-65dB
1GHz: <-55dB
1.3GHz: <-40dB
**VSWR**
100MHz: 1.1:1
500MHz: 1.25:1
1GHz: 1.75:1
1.3GHz: 1.75:1

## VXIbus INTERFACE DATA

**Cooling Requirements**
Airflow: 1.0 liters/sec
Backpressure: 0.05mm $H_20$
With Option 01S/T
Airflow: 2.0 liters/sec
Backpressure: 0.2mm $H_20$
**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.

CE

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.

WORLDWIDE SUPPORT

**http://www.racalinst.com**

LLOYD'S REGISTER QUALITY ASSURANCE 100650SI

VXI plug&play



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