

## 100 MHz RF Multiplexer

- ◆ **1260-75A Configurable as:**
  - Eight 1x4**
  - Two 1x19**
  - Four 1x9**
  - One 1x39**
- ◆ **1260-75B Configurable as:**
  - Sixteen 1x4**
  - Two 1x39**
  - Eight 1x9**
  - One 1x79**
  - Four 1x19**
- ◆ **100MHz Bandwidth,  
Useable over 200MHz with  
Excellent Crosstalk and  
Isolation Specs**
- ◆ **Software Configurable**
- ◆ **Coaxial Interfaces**

Racal Instruments™ 1260-75 is ideal for switching wideband signals up to 200MHz. It is intended for use with function/pulse generators, universal counter/timers, oscilloscopes and other instruments where high frequency or fast pulse signals are switched. A major application is in the switching of video signals.

The 1260-75A consists of eight 1x4 75Ω multiplexers and the 1260-75B consists of sixteen 1x4 75Ω multiplexers. These multiplexers are bi-directional and configurable via software. This makes reconfiguration very easy and eliminates the need to disassemble the module.

The coaxial connector housing (shell) is supplied with the 1260 75A/B. Coaxial pins and cables for this module are also offered. Coaxial cables have been tested up to a 1GHz bandwidth and are available in 2, 6 and 12 foot lengths with a coaxial pin at each end.

Relay coil currents are monitored to provide selectable confidence checking which gives the user additional assurance of proper relay operation.

The 1260-75 is controlled by the Option 01 message-based interface.

# 1260-75 PRODUCT SPECIFICATIONS

## Maximum Switchable Voltage

(Signal-Signal Ground, Resistive Load)  
200VDC or VAC peak

## Maximum Switchable Current Per Channel

0.5A DC, 0.5A AC peak

## Maximum Carry Current

1ADC, 1A AC peak

## Maximum Switchable Power Per Channel

10WDC, 10VA, 10W RF into 75Ω

## DC PERFORMANCE

### Path Resistance

≤2 Ω

## AC PERFORMANCE (into 75Ω)

### Insulation Resistance

2 x 109Ω

### Thermal EMF

<75μV

## Bandwidth (-3dB)

100MHz

## Crosstalk

10MHz: -50dB

100MHz: -35dB

## Isolation

10MHz: >40dB

100MHz: >35dB

## VSWR

Less than 1.5:1 at 100MHz

## Rise/Fall Time (Typical)

3.5ns

## Capacitance

<50pF

## Propagation Delay Time (Typical)

5ns (within group)

## Cooling Requirements

Airflow: 1.0 liters/sec

Backpressure: 0.05mm H<sub>2</sub>O

With Option 01S/T

Airflow: 2.0 liters/sec

Backpressure: 0.2mm H<sub>2</sub>O

## VXIBUS INTERFACE DATA

### Power Requirements

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

+12V: 0.34A

### Weight

2.49lb (1.17kg) without Option 01

2.87lb (1.29kg) with Option 01

### Dimensions

C-size, Single-slot VXIbus Module

### Life Expectancy

250x10<sup>6</sup> Operations

(Signal <1.0V, 10mA)

### User Connector: GMCT

Crimp Shielded Contact from Positronics or available from our facility - see ordering information below

### Typical Programming Syntax

Programming Syntax is in the form

"<module address> . <channels>"

Example: CLOSE 3.04

This close statement will close relay number 4 on 1260-75 at card address 3.

## ORDERING INFORMATION

### MODEL/DESCRIPTION

Racal Instruments 1260-75A, 100MHz RF Multiplexer (Eight 1x4)

Racal Instruments 1260-75B, 100MHz RF Multiplexer (Sixteen 1x4)

Option 01\*, Smart Control Module (installed)

Coax Pin for 1260-75A/B

1GHz Cables with connectors at each end for 1260-75A/B, 2ft. (-003, 6ft./-006, 12ft.)

Crimp Tool for Coaxial Pin, Order directly through Burndy, Norwalk, CT.

### PART NUMBER

407354-001


407366-002

OPT-401901-005

602220-900

407363-001

Contact Factory

 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.

The EADS North America Defense Test and Services policy is one of continuous development, consequently the equipment may vary in detail from the description and specification in this publication.



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