



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 H₂O

With Option 01S/T

Airflow: 2.0 liters/sec

Backpressure: 0.2mm H₂O

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

250x10⁶ 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 1260-75B, 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

407366-002

OPT-401901-005

602220-900

407363-001

Contact Factory

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.



EADS North America Defense Test and Services
1.800.722.2528/1.949.859.8999 sales@eads-nadefense.com