100 MHz RF Multiplexer

◆ **1260-93A Configurable as:**
   Eight 1x4
   Two 1x19
   Four 1x9
   One 1x39

◆ **1260-93B Configurable as:**
   Sixteen 1x4
   Two 1x39
   Eight 1x9
   One 1x79
   Four 1x19

◆ **100MHz bandwidth,**
   Useable over 200MHz

◆ **Excellent Crosstalk and**
   Isolation

◆ **Software Configurable**

◆ **Coaxial Interfaces**

Racal Instruments™ 1260-93 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 used by the military.

The 1260-93A consists of eight 1x4 93Ω multiplexers and the 1260-93B consists of sixteen 1x4 93Ω 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 1260-93A/B. We also offer coaxial pins and cables for this module. 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.

The 1260-93 is controlled by the Option 01 message-based interface.

EADS
NORTH AMERICA
DEFENSE

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
1A DC, 1A AC peak

Maximum Switchable Power Per Channel
10W DC, 10VA, 10W RF into 93

DC PERFORMANCE

Path Resistance
2.5Ω

AC PERFORMANCE (into 93Ω)

Impedance
93Ω

Bandwidth (-3dB)
100MHz

Crosstalk
10MHz: -50dB
100MHz: -40dB

Isolation
10MHz: >45dB
100MHz: >35dB

VSWR
Less than 1.5:1 at 100MHz

Rise/Fall Time (Typical)
2.5ns

Propagation Delay Time (Typical)
3ns

Cooling Requirements
Airflow: 4.0 liters/sec
Backpressure: 0.5mm H_2O

VXIBUS INTERFACE DATA

Power Requirements
+5V: 0.4A (2.5A with Option 01 installed)
+12V: 0.5A

Weight
2.59 lb (1.17 kg) without Option 01
2.90 lb (1.32 kg) with Option 01

Dimensions
C-size, Single-slot VXIbus Module

Life Expectancy
250×10^6 Operations
(Signal <1.0V, .10mA)

User Connector: GMCT
Crimp Shielded Contact from Positronics or Available from Racal Instruments - See Ordering Informa-tion 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 the 1260-93 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.**

ORDERING INFORMATION

MODEL/DESCRIPTION	PART NUMBER
Racal Instruments 1260-93A, 100MHz RF Multiplexer (Eight 1x4)	407355-001
Racal Instruments 1260-93B, 100MHz RF Multiplexer (Sixteen 1x4)	407355-002
Option 01*, Smart Control Module (installed)	OPT-401901-005
Coax Pin for 1260-75A/B	602220-900
1GHz Cables with connectors at each end for 1260-75A/B, 2ft. (-003, 6ft./-006, 12ft.)	407364-001
Crimp Tool for Coaxial Pin	Order directly through Burndy, Norwalk, CT

*One Option 01 must be ordered with switch system. Please specify the card on which Option 01 will be installed

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.