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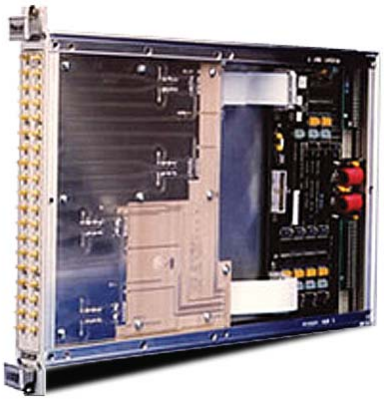
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Racal Instruments™

1260-58

1 GHz RF Switch Module

MATURE

The Racal Instruments™ 1260-58 is a high-density switch module with four 1x8 coaxial trees. It is designed for high-frequency, 50 Ω signals, making it ideal for switching source or measurement signals in an ATE environment or modern communication system.

Key Features

- **Four 1x8 coaxial trees**
- **1 GHz bandwidth**
- **Excellent crosstalk and isolation characteristics**
- **Single-slot, C-size, VXIbus module**
- **High-quality 50 Ω SMB coaxial interface connectors**
- **Ideal for switching high-frequency signals in ATE systems**

Product Information

The 1260-58 is intended for use with function/pulse generators, universal timer/counters, oscilloscopes, high-speed digital test units, and other instruments involving high-frequency or fast rise-times.

This switch module has excellent AC performance, with a bandwidth greater than 1 GHz. All relays are bi-directional, making inputs and outputs interchangeable to meet different test requirements.

Larger switching systems can be configured by using external jumpers with easy-to-interface SMB connectors. This method configures large multiplexers as well as large matrices.

The 1260-58 requires a Racal Instruments™ Option 01T to communicate with 1260-series modules. This option provides message-based operation for ease-of-use and register-based operation for maximum speeds.

The 1260-series includes VXI*plug&play* support for frameworks based on Microsoft Win32® application programming interface, including drivers for LabWindows™/CVI and LabVIEW™.

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Specifications

Note: The Astronics Test Systems policy is one of continuous development and improvement. Consequently, the equipment may vary in detail from the description and specifications in this publication.

Input

Maximum Switching Voltage
- 30 VDC or 30 VAC_{pk}

Maximum Switching Current
- 0.5 ADC, 0.5 AAC_{pk}

Maximum Switching Power
- 10 WDC, 10 VA, 10 WRF into 50 Ω

DC Performance

Path Resistance
- <1.0 Ω

Insulation Resistance
- >10^9 Ω

Thermal EMF
- <20 µV

AC Performance (Into 50 Ω)

Bandwidth (-3 dB)
- >1 GHz

Insertion Loss
- 100 MHz: <0.6 dB
- 500 MHz: <1.0 dB
- 1 GHz: <1.5 dB

Isolation
- 100 MHz: >70 dB
- 500 mHz: >55 dB
- 1 GHz: >35 dB

Crosstalk
- 100 MHz: <-60 dB
- 500 MHz: <-43 dB
- 1 GHz: <-35 dB

VSWR
- 100 MHz: <1.1:1
- 500 MHz: <1.3:1
- 1 GHz: <1.9:1

Capacitance
- Closed Channel to Input Ground: <200 pF
- Open Channel to Input Ground: <150 pF

Interface

Power Requirements (I_{PM})
- +5 V: 0.4 A (+5 V: 2.5 A with Option 01T installed)
- +12 V: 0.5 A

User Connector
- SMB (interface connectors not supplied, 36 maximum required)

Environmental

Temperature
- Operating: 0° C to 55° C
- Storage: -40° C to 71° C

Relative Humidity
- 95% +5%, non-condensing at <30° C

Altitude
- Operating: 10,000 ft
- Non-operating: 15,000 ft

Shock
- 30 g, 11 ms, 1/2 sine wave

Vibration
- 0.013 in: double amplitude, 5 to 55 Hz

Bench Handling
- 4-inch drop at 45°

Emissions
- EN55011A with limits in accordance with EN50081-1

Immunity
- IEC801-2, 3, 4 with limits in accordance with EN50082-1

Safety
- EN61010-1

Switch Time
- <10 ms (includes settling time)

Rated Switch Operations
- >100,000,000 operations

MTBF (MIL-HDBK-217E, includes relays)
- 312,218 hrs

Mechanical

Dimensions
- C-Size, Single-Slot VXIbus Module

Weight
- 2.49 lb (1.17 kg) w/o Option 01T
- 2.87 lb. (1.29 kg) w/ Option 01T

Cooling Requirements
- Without Option 01T
  - Airflow: 1.0 l/s
  - Backpressure: 0.05 mm H_20
- With Option 01T
  - Airflow: 2.0 l/s
  - Backpressure: 0.2 mm H_20

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

Ordering Information

Note: Compatible smart controller: A smart card must be installed in the left-most slot of a set of 1260-xx series switch cards. Two 1260 series smart cards exist:

- Option 01: Native command set. Not compatible with this 1260-xx series switch card and cannot be used.
- Option 01T: SCPI command set. Compatible with this 1260-xx series switch card and must be used in the chain.

407512 : Racal Instruments™ 1260-58
1 GHz RF Switch Module

Options:

OPT-401901-005 : Racal Instruments™ Option 01, Smart Control Module installed (manual must be ordered separately; see below)

404820-005 : Racal Instruments™ Option 01, Smart Control Module (not installed) with manual

OPT-405108-001 : Racal Instruments™ Option 01T Smart Control Module installed (manual must be ordered separately; see below)

407531-001 : Racal Instruments™ Option 01T Smart Control Module (not installed) with manual

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