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Racal Instruments™ 1260-X153

1 GHz Coaxial Tree Switch Plug-in Eight 1x4 and Four 1x2

The Racal Instruments™ 1260-X153 is a high-frequency, coaxial 1x4 binary tree switch plug-in for use in the Racal Instruments™ 1260-100X Adapt-a-Switch™ VXI carrier.

Key Features

- **High-density coaxial connector interface**
- **Software re-configurable**
- **Excellent signal integrity**
- **No unterminated stubs**

Product Information

The 1260-X153 is intended to switch signals to and from the following types of high-speed instruments: oscilloscopes, digitizers, arbitrary waveform generators, function generators, pulse/pattern generators and counter/timers.

This module is highly configurable via software.

Configurations include:

- Ten (1x4)
- Eight (1x4) and Four (1x2)
- Nine (1x4) and Two (1x2)
- Four (1x8) and Two (1x4)

High signal fidelity is maintained through the use of high quality RF relays and coaxial connectors. This high quality design reduces insertion loss while maintaining excellent isolation and crosstalk.

When used with the 1260-100X VXI carrier, the 1260-X153 requires a Racal Instruments™ Option 01T to communicate with the switch cards and to provide both message-based operation for ease of use and register-based operation for maximum speed.

An IVI-COM driver is available for this module.

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Specifications

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

Input Performance

Maximum Voltage
- 200 V_{pk}

Maximum Switching Voltage
- 110 VDC, 125 VAC

Switching Current
- 1 A, 2 A Carry

Switching Power
- 30 W, 37.5 VA, 1 W RF

DC Performance

Initial Path Resistance
- <0.5 Ω

Insulation Resistance
- >10^8 Ω to ground
- >10^9 Ω open channel

AC Performance (Into 50 Ω)

Bandwidth (-3 dB)
- >1 GHz

Insertion Loss
- <0.4 dB to 100 MHz
- <1.2 dB to 500 MHz
- <2.0 dB to 800 MHz
- <3.0 dB to 1 GHz

VSWR
- <1.1:1 to 100 MHz
- <1.6:1 to 500 MHz
- <1.8:1 to 1 GHz

Crosstalk
- <-70 dB to 1 MHz
- <-65 dB to 100 MHz
- <-45 dB to 500 MHz
- <-35 dB to 1 GHz

Isolation
- >70 dB to 1 MHz
- >65 dB to 100 MHz
- >40 dB to 500 MHz
- >30 dB to 1 GHz

Capacitance
- <100 pF to ground
- <10 pF open channel

Interface

Current Draw
- +5 VDC at 1.0 A Max
- +5 VDC at 27 mA per energized relay

Maximum Overall Power Dissipation
- 60 W

Front Panel I/O Interface Connectors
- 2-26-pin connectors

Environmental

Temperature
- Operating: 0° C to + 55° C
- Non-operating: -40° C to + 75° C

Relative Humidity
- 85% ±5% non-condensing at <35° C

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

Shock
- 30 g, 11 ms, ½ sine wave

Vibration
- 0.013 in: (pk-pk), 5 to 55 Hz

Emissions
- Designed to meet EN55011A with limits in accordance with EN50081-1

Immunity
- Designed to meet IEC901-2,3,4 with limits in accordance with EN50082-1

Safety
- Designed to meet EN61010-1
- Impulse Withstand 1000 V

Relay Settling Time
- <10 ms

MTBF (MIL-HDBK-217 E)
- >130,000 hrs at 25° C

Relay Life
- Mechanical: 50,000,000
- Electrical: 100,000 At full rated load; 500,000 At 12 W or 18.75 VA

Bench Handling
- 4-inch drop at 45°

Mechanical

Weight
- 18 oz (0.51 kg)

Dimensions
- 4.4" H X 0.75" W X 12.6" D

Cooling Requirements
- See 1260-100X cooling data

* Operation at 15,000 feet requires de-rating of maximum overall power dissipation to 49 W.

Ordering Information

408011 : Racal Instruments™ 1260-X153
8 (1x4), 4 (1x2) Coaxial switch card plug-in

Accessories:
407746-001 : Single Coax Cable with HV pins, 50 Ω, 2 ft
407746-003 : Single Coax Cable with HV pins, 50 Ω, 6 ft
407746-006 : Single Coax Cable with HV pins, 50 Ω, 12 ft
602221-126 : Spare 26-Pin Mating Housing
602221-903 : HV Coaxial Mating Pin (2 req'd)

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