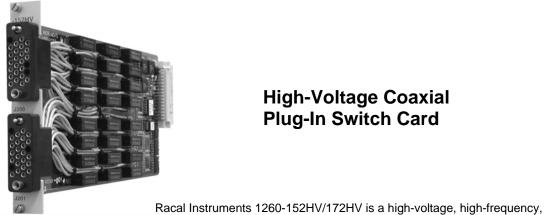
RACAL INSTRUMENTS™ 1260-152HV/172HV



High-Voltage Coaxial **Plug-In Switch Card**

coaxial switch card for use in either the Adapt-a-Switch™ 1260-100, VXI carrier, or the 1256, GPIB/RS-232 Switching Mainframe. Its high-density coaxial interface allows for high-frequency signal applications, while simultaneously ensuring safety in a high-voltage environment by isolating the center conductor from the return signal..

The 1260-152HV/172HV is ideal for measuring transient voltages or for applications that require both high-frequency and high-voltage switching, such as power supply transient testing. With a -3 dB bandwidth of 700 MHz, it is capable of switching up to 500 V. This switch card is comprised of 20 discrete 1x1 SPST relays and 2 discrete 1x2 SPDT relays.

All relays on the 1260-152HV/172HV are electromechanical, making inputs/outputs interchangeable to meet test requirements. Each switch card includes coaxial connector shells; however, the connector pins must be purchased separately. Cables supplied with the coaxial pins at both ends (tested up to 1 GHz) are optional and may be ordered in 2, 6, or 12foot lengths. By cutting the cable in half, the user can support 2 channels per cable and alleviate the need for a special crimp tool. Refer to ordering information on the second page of this data sheet.

When used with the Adapt-a-Switch™ carrier, the 1260-152HV/172HV requires an 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. When used with the 1256 Switching Mainframe, no controller is required, and message-based operation is available.

The Adapt-a-Switch™ line includes drivers for LabWindows/CVI and LabView for VXI applications. It also includes VXIplug&play compliant support for WIN95/98/NT/2000 platforms.



- **Coaxial Interface**
- 50 Ω and 75 Ω Versions
- Ideal for Power Supply **Transient Testing**
- **High-Frequency**
- **High-Voltage**
- **High-Density**

1260-152HV/172HV PRODUCT SPECIFICATIONS

Altitude

EMC

Emissions

Immunity

Safety

Shock

MTBF

Weight

Vibration

Operating: 10,000 ft.

Non-operating: 15,000 ft.

EN61326, Class A, Table 3

EN61326, Class A, Table 1

30 g, 11 ms, 1/2 sine wave

0.013 in. (pk-pk), 5-55 Hz

300,000 hrs. (MIL-HDBK-217E)

CE, EN61010-1

RELIABILITY

MECHANICAL

Bench Handling

8 oz. (0.23 kg)

Dimensions

4-inch drop at 45°

4.5" H X 0.75" W X 9.5" D

CE The CE Mark indicates that the product has

completed and passed rigorous testing in the area of RF Emissions

RF Emissions, Immunity to Electromagnetic Disturbances and complies with European electrical safety standards.

INPUT

Maximum Switching Voltage AC: 500 VAC peak DC: 500 VDC

Switching Current AC: 0.50 AAC peak DC: 0.50 A

Switching Power AC: 10 VA DC: 10 W

Power Requirements +5 VDC 150 mA + 25 mA per energized relay (0.8 A Max.)

DC PERFORMANCE

 Path Resistance

 < 1 Ω</td>

 Isolation

 > 35 dB to 100 MHz

 > 18 dB to 350 MHz

AC PERFORMANCE

Characteristic Impedance

1260-152HV: 50 Ω 1260-172HV: 75 Ω **Bandwidth** (-3 dB) 700 MHz

Insertion Loss

300 KHz: < 0.2 dB 100 MHz: < 0.5 dB 350 MHz: <1.5 dB

VSWR

1260-152HV: 1.3:1 max 100 MHz 1.9:1 max 350 MHz 1260-172HV: 1.2:1 max 100 MHz 1.4:1 max 350 MHz

Crosstalk < -45 dB to 100 MHz < -25 dB to 350 MHz

Capacitance Channel-Ground: < 60 pF Open-Channel: < 5 pF

Insulation Resistance > $10^9 \Omega$ at 500 V Relay Settling Time

< 5 ms

ENVIRONMENTAL DATA

Cooling See 1260-100 cooling data Temperature Operating: 0° C to +55° C Non-operating: -40° C to +75° C Relative Humidity 85% ± 5% non-condensing at < 30° C

ORDERING INFORMATION

MODEL/DESCRIPTION

Racal Instruments 1260-152HV High-Frequency, High-Voltage Coaxial Switch Module, 50 Ω Racal Instruments 1260-172HV, High-Frequency, High-Voltage Coaxial Switch Module, 75 Ω 26-Pin Housing HV Coaxial Mating Pin

Single Coaxial Cable w/HV pins, 50 Ω , 2 ft. Single Coaxial Cable w/HV pins, 50 Ω , 6 ft. Single Coaxial Cable w/HV pins, 50 Ω , 12 ft. Single Coaxial Cable w/HV pins, 75 Ω , 2 ft. Single Coaxial Cable w/HV pins, 75 Ω , 6 ft. Single Coaxial Cable w/HV pins, 75 Ω , 12 ft.

PART NUMBER

 407742-001

 407742-002

 602221-126

 602221-903

 407746-001

 407746-003

 907746-006

 407746-006

 407747-003

 407747-003

 407747-006

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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