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RACAL INSTRUMENTS™ 1260-118/118A



80/24 Channel SPST Plug-in Switch

- **80 or 24 Channels of SPST Switching**
- **100 MHz Bandwidth (-3dB)**
- **118A Version Accommodates a Low-Cost Ribbon Cable Interface**
- **Switches Up to 2 A**
- **Easily Configured to Meet User-defined Network Requirements**
- **Standard Adapt-a-Switch® Plug-in Design for Ease of Replacement**

Racal Instrument™s 1260-118/118A is an 80/24 channel. SPST (Form A) plug-in relay card for the Adapt-a-Switch® platform. It quickly and easily plugs into the front of an Adapt-a-Switch Carrier, Racal Instruments 1260-100 or 1260-101, or Racal Instruments 1256 GPIB/Ethernet Switching System

Each channel to the 1260-118/118A can switch up to 2A. Its bandwidth and current/voltage switching capability make it the ideal general-purpose switch card. In addition , the SPST architecture allows the user to interconnect the relays externally to create custom multiplexers and matrices.

Since all relays on the 1260-118/118A are electromechanical, all inputs/outputs are interchangeable to meet the test requirements. Interface connectors are not provided with the 1260-118 and must be ordered separately. However, a six-foot unterminated cable assembly is available as a standard option. For the 1260-118A, 2 A DIN crimp-style connectors or low-cost 1 A IDC ribbon cable connectors are also a available as options.

Racal Instruments Option-01T interface (for VXI) controls the 1260-118/1260-118A using either register-based or message-based commands. Racal Instruments 1256 (for GPIB/Ethernet) supports message-based operations.

Refer to Racal Instruments Option-01T/1256 literature for more information about product specifications and features such as include, exclude, scan lists, user-defined path names, and reset states.

Racal Instruments Adapt-a-Switch series includes VXI*plug&play* support of WIN98/NT/2000/XP frameworks, including drivers for LabWindows/CVI and LabVIEW.

EADS NORTH AMERICA DEFENSE

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1260-118/118A PRODUCT SPECIFICATIONS

INPUT

Maximum Switching Voltage
300 VDC or 300 VAC

Maximum Switching Current
2 ADC or 2A AC 1 ADC/AC with IDC mating connector

Maximum Switching Power
60 W, 125 VA

DC PERFORMANCE

Path Resistance
< 500 μΩ

Insulation Resistance
> 10^9 Ω

Thermal EMF
< 10 μV

AC PERFORMANCE

Bandwidth (-3 dB)
100 MHz

Insertion Loss
100 kHz: < 0.5 dB
1 MHz: < 1.0 dB

Isolation (50Ω)
100 kHz: > 80 dB
1 MHz: > 40 dB

Crosstalk (50 Ω)
100 kHz: < 80 dB
1 MHz: < -40 dB

Capacitance
Channel-Chassis: < 200 pF
Open Channel: < 20 pF

INTERFACE DATA

Cooling
See 1260-100 cooling data

Power Requirements
+5 VDC at 150 mA plus 30 mA per energized relay (730 mA max.)

ENVIRONMENTAL DATA

(All Environmental Conditions Tested to MIL-PRF-28800F, Class 3)

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

Relative Humidity
5% to 95% RH non-condensing ≤ 30º C
5% to 75% RH above 30º C
5% to 45% RH above 40º C

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

Shock
30 g peak, half sine, 11 ms pulse

Random Vibration
Operating: 5-500 Hz, 0.3 Grms
Non-Operating: 5-500 Hz, 2.1 Grms

Bench Handling
4-inch drop at 45º

EMC

Emissions/Immunity
EN61326: 1997 + A1: 1998, Class A

Safety
EN61010-1; 1993 + A2: 1995

RELIABILITY

Switching Time
< 3 ms (includes settling time)

Rated Switch Operation
Mechanical: 1 x 10^8
Electrical: 1 x 10^6 @ 50 V, 0.1 A
1 x 10^6 @ 10 V, 10 mA

Note: Each 1260-118/118A requires one mating connector.

MTBF
≥ 783,668 hrs. (MIL-STD-217E)

MTTR
< 5 minutes

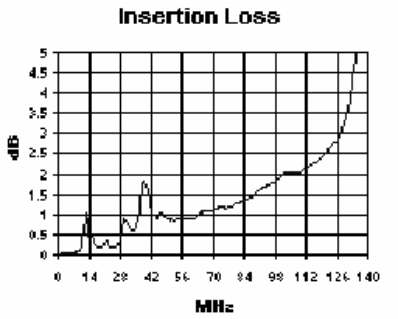
MECHANICAL

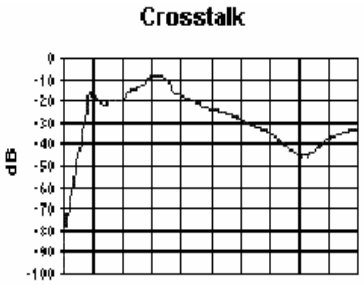
Weight
12,8 oz. (0.36 kg)

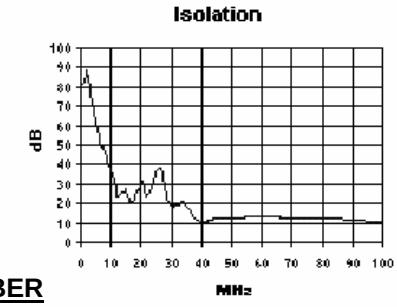
Dimensions
4.5" H x 0.75" W x 9.5" D

Front Panel I/O Interface Connector
1260-118: 160 Pin DIN Connector
1260-118A: 64 Pin DIN Connector

TYPICAL CHANNEL







ORDERING INFORMATION

MODEL/DESCRIPTION	PART NUMBER
Racal Instruments 1260-118, Adapt-a-Switch Module, 80 Channel SPST, 2A	407632
Racal Instruments 1260-118 160-pin Cable Assembly, 6ft. 24 AWG	407408-001
Racal Instruments 1260-118 160-pin Mating Connector with Pins	407664
Racal Instruments 1260-118 Connector Bracket, Strain Relief	456673
Racal Instruments 1260-118A, Adapt-a-Switch Module, 24 Channel SPST, 2A	407632-001
Racal Instruments 1260-118A 64-pin DIN Connector, EDC (1A)*	602004
Racal Instruments 1260-118A 64-pin DIN Crimp Body (2A)	602159-064
Racal Instruments 1260-118A 64-pin DIN Crimp Pin (2A)	602159-900

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.

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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