## PRODUCT INFORMATION

80/24 Channel SPST Plug-in Switch Model 1260-118/118A



80 or 24 Channels of SPST Switching<br>100 MHz Bandwidth (-3dB)<br>118A Version Accommodates a LowCost Ribbon Cable Interface

The 1260-118/118A is an 80/24 channel. SPST (Form A) plug-in relay card for the Adapt-a-Switch ${ }^{\circledR}$ platform. It quickly and easily plugs into the front of an Adapt-aSwitch Carrier, model 1260-100 or 1260-101, or the Model 1256 GPIB/Ethernet Switching System. Please refer to the corresponding literature for specifications and product features.

Each channel to the 1260118/118A 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 1260118/118A 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 crimpstyle connectors or low-cost 1 A IDC ribbon cable connectors are also a available as options.

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

Refer to the 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.

The Adapt-a-Switch series includes VXIplug\&play support of WIN98/NT/2000/XP frameworks, including drivers for LabWindows/CVI and LabVIEW.

## Model 1260-118/118A SPECIFICATIONS



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: $0^{\circ} \mathrm{C}$ to $55^{\circ} \mathrm{C}$
Storage: $-40^{\circ} \mathrm{C}$ to $71^{\circ} \mathrm{C}$
Relative Humidity
$5 \%$ to $95 \%$ RH non-condensing $\leq 30^{\circ} \mathrm{C}$
$5 \%$ to $75 \% \mathrm{RH}$ above $30^{\circ} \mathrm{C}$
$5 \%$ to $45 \% \mathrm{RH}$ above $40^{\circ} \mathrm{C}$
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 $45^{\circ}$
EMC
Emissions/Immunity
EN61326: 1997 + A1: 1998, Class A
Safety
EN61010-1; 1993 + A2: 1995

## RELIABILITY

Switching Time
$<3 \mathrm{~ms}$ (includes settling time)
Rated Switch Operation
Mechanical: $1 \times 10^{8}$
Electrical: $1 \times 10^{6} @ 50 \mathrm{~V}, 0.1 \mathrm{~A}$ $1 \times 10^{6} @ 10 \mathrm{~V}, 10 \mathrm{~mA}$

MTBF
$\geq 783,668 \mathrm{hrs}$. (MIL-STD-217E)
MTTR
< 5 minutes
MECHANICAL
Weight $12,8 \mathrm{oz}$. ( 0.36 kg )

## Dimensions

$4.5^{\prime \prime} \mathrm{H} \times 0.75^{\prime \prime} \mathrm{W} \times 9.5^{\prime \prime} \mathrm{D}$
Front Panel I/O Interface Connector 1260-118: 160 Pin DIN Connector 1260-118A: 64 Pin DIN Connector

TYPICAL CHANNEL
Insertion Loss


Crosstalk


Isolation


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

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

