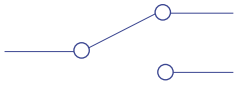
SMP5004/5005

General Purpose 5 A Relays



SMP5004 - 1 of 30, 5 A SPDT

SMP5005 - 1 of 48, 5 A SPST

Features

SMP5004	30 SPDT 5 A Relays 15 DPDT 5 A Relays
SMP5005	48 SPST 5 A Relays

- Fail-safe Interrupt Input on Front Panels for Emergency Fault Conditions
- All Cards have Built-in Shield Planes to Improve Signal Integrity
- Ideal for 5 A General Purpose Switching
- SPST Relays can be Paired to Configure 24 DPST Relays per SMP5005
- SPDT Relays can be Paired to Configure 15 DPDT Relays per SMP5004

Overview

These high-density 5 A switch modules are designed for switching applications such as process control, appliance pass/fail testing, and on/off control. Up to 288 individual SPST relays, or 180 individual SPDT relays, can be accommodated in a double-slot VXIbus card (SMP1200) for maximum density, or mixed and matched with other SMIP//™ cards for flexibility.

Since these modules typically switch power to the UUT or interface, a fail-safe interrupt input line is provided on the front panel that can open all relays automatically if a safety condition occurs. This approach instantly removes all power to the UUT or interface.

Specifications

Maximum Switching Voltage:	250 V ac, 110 V dc
Maximum Switching Current:	5 A
Maximum Switching Power:	150 W dc, 1250 VA per channel 18 kWatts per switch module
Path Resistance:	<150 mΩ
Insulation Resistance:	>1x10^{9}Ω
Maximum Thermal Offset per Channel (HI-LO):	<7 µV
Capacitance:	
Open Channel:	<50 pF
Channel-Mainframe:	<80 pF
Bandwidth (-3 dB):	> 50 MHz bandwidth
Insertion Loss:	
100 kHz:	<0.1 dB
1 MHz:	<0.2 dB
10 MHz:	<1.0 dB
Crosstalk:	
100 kHz:	<-80 dB
1 MHz:	<-60 dB
10 MHz:	<-40 dB
Isolation:	
100 kHz:	<-50 dB
1 MHz:	<-45 dB
10 MHz:	<-40 dB
Rated Switch Operations:	
Mechanical:	1 x 10^7
Electrical:	5 x 10^5 at full load
Switching Time:	<3ms