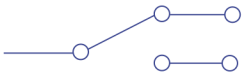
VXI Technology™

General Purpose 2 A Relays

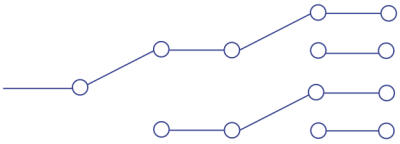
Overview

These high-density basic switch modules are designed for general purpose switching where individual relays can be used to route signals to/from the units under test (UUT), or combined externally to form user-defined configurations. The latter approach allows the same switch module to be used for testing multiple UUTs by simply changing the configuration within a UUT-specific external adapter. Up to 480 individual SPST relays, 300 individual SPDT, or 156 SP4T relays can be accommodated in a double-slot VXIbus card (SMP1200) for maximum density.

SMP5001 - 1 of 80 SPST



SMP5002 - 1 of 50 SPDT



SMP5003 - 1 of 26 SP4T

Specifications

Maximum Switching Voltage:	300 V ac, 300 V dc
Maximum Switching Current:	2 A
Maximum Switching Power:	60 W dc, 125 VA
Path Resistance:	<300 mΩ
Insulation Resistance:	>1x10^9 Ω
Maximum Thermal Offset per Channel (HI-LO):	<7 µV
Capacitance:	
Open Channel:	<50 pF
Channel-Mainframe:	<80 pF
High-Low:	<50 pF
Bandwidth (-3 dB):	> 100 MHz
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

Features

SMP5001	80 SPST 2 A Relays
SMP5002	50 SPDT 2 A Relays
SMP5003	26 SP4T 2 A Relays

- High Channel Counts - up to 480 SPST Relays in Two VXIbus Card Slots
- Can be Mixed and Matched to Create Application Specific Configurations
- Ideal for General Purpose Switching
- SPST Relays can be Paired to Configure 40 DPST Relays per SMP5001
- SPDT Relays can be Paired to Configure 25 DPDT Relays per SMP5002