

Coaxial Switches >900 MHz

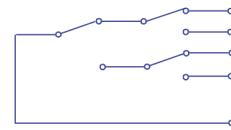
Overview

The SMP6001 high-density (1x4) coaxial tree and SMP6002 high-density (1x2) coaxial switch modules are designed for general purpose RF switching. The front panel contains two high-density, 26-pin coaxial connectors designed for high reliability and superior signal integrity. Excellent crosstalk and isolation is maintained by using RF relays, along with short low-loss coaxial runs from the connector directly to the relays. Both modules are also configured to avoid any unterminated stub effects.

The SMP6001 and SMP6002 are part of the SMIP//™ family and can be mixed and matched with other SMIP//™ modules to configure high-density switching systems.

Specifications

Maximum Switching Voltage:	100 V
Maximum Switching Current:	0.5 A
Maximum Switching Power:	10 W
Path Resistance:	<1 Ω
Bandwidth (-3 dB):	> 900 MHz
Insertion Loss:	
100 MHz:	<0.2 dB
500 MHz:	<0.5 dB
Crosstalk:	
10 MHz:	<-70 dB
100 MHz:	<-65 dB
500 MHz:	<-60 dB
Isolation:	
10 MHz:	<-80 dB
100 MHz:	<-70 dB
500 MHz:	<-65 dB
VSWR:	
100 MHz:	<1.2:1
900 MHz:	<1.5:1
Rated Switch Operations:	
Mechanical:	5 x 10 ⁶
Electrical:	1 x 10 ⁵ at full load
Switching Time:	<5 ms



SMP6001 - 1 of 10, Coaxial Trees



SMP6002 - 1 of 17, (1x2) Coaxial Switches

Features

- SMP6001 10 1x4 Coaxial Trees >900 MHz
- SMP6002 17 1x2 Coaxial Switches >900 MHz

Greater than 900 MHz Bandwidths with Excellent Crosstalk and Isolation

10 W Maximum Switching Power

Can be Mixed and Matched to Create Application Specific Configurations

Ideal for General Purpose RF Switching with High Signal Fidelity

No Unterminated Stub Effects