VXI
Technology™

Dual 250 MHz High-voltage 1x16 Coaxial Stars

Overview

The SMP6006 is an RF switch module designed in a star configuration. A star switch allows any channel to be connected to any other channel. This configuration approach also allows for the creation of simple matrices (i.e., 8 x 1 x 8).

Additionally, for applications that require the switching of high voltage probes or transient power supply signals, the SMP6006 provides the capability of switching up to 500 V and up to 250 MHz. The front panel contains two high-density, 26-pin coaxial connectors designed for high reliability and superior signal integrity.

The SMP6006 is part of the SMIP//™ family and can be mixed and matched with other SMIP//™ modules to configure high-density switching systems. Because of the type of relays, it can only be housed in an SMP1200.

1 of 2 (1x16)

Features

Specifications

Maximum Switching Voltage:	500 V
Maximum Switching Current:	0.5 A
Maximum Carry Current:	2.0 A
Maximum Switching Power:	10 W
Bandwidth (-3 dB)	> 250 MHz

Insertion Loss:
100 MHz:	<1.0 dB
250 MHz:	<3.0 dB

Crosstalk:
100 MHz:	<-45 dB
250 MHz:	<-35 dB

Isolation:
100 MHz:	<-40 dB
250 MHz:	<-30 dB

VSWR:
100 MHz:	<1.2:1
250 MHz:	<1.5:1

Rated Switch Operations:
1.0 V, 10 mA:	100×10^6
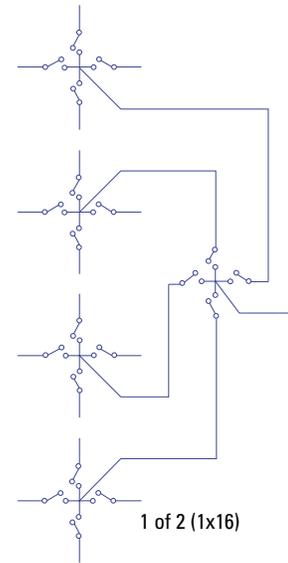
Switching Time: <1 ms

SMP6006   Dual 1x16 High-Voltage Coaxial Stars

Greater than 250 MHz Bandwidth

Very High-density (Two 1x16 Muxes)

500 V Switching Capability

Ideal for Differential Coaxial Switching

Star Configurations Allow any Channel to be Connected to any other Channel