

## 8 (2 x 8) High-density Coaxial Matrix

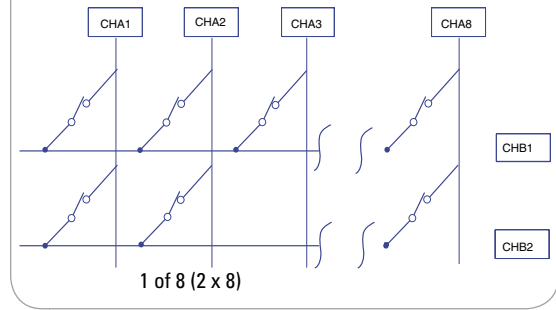
### Overview

The SMP4028 matrix is designed for applications that require matrix switching in a shielded coaxial environment. This card provides the ability to connect any input to any output. The SMP4028 is configured with 2x8 building blocks that can easily be expanded. For example a single module can be expanded into a 2x64 matrix, a 16x8, or any number of other intermediate configurations. The front panel contains high-density coaxial connectors designed for high reliability and superior signal integrity.

The high density, modular architecture of the SMIP//™ family provides the basis for extremely flexible and easily reconfigurable matrix switch systems.

### Specifications

<b>Maximum Switching Voltage:</b>	300 V ac, 300 V dc
<b>Maximum Switching Current:</b>	2 A
<b>Maximum Switching Power:</b>	60 W dc, 125 VA
<b>Path Resistance:</b>	<1 Ω
<b>Insulation Resistance:</b>	>1×10 <sup>9</sup> Ω
<b>Maximum Thermal Offset per Channel:</b>	< 7 uV
<b>Capacitance:</b>	
Open channel	<50 pF
Channel-mainframe	<80 pF
High-low	<50 pF
<b>Characteristic Impedance:</b>	50 Ω
<b>Bandwidth (-3 dB):</b>	>75 MHz
<b>Insertion Loss:</b>	
100 kHz	<0.1 dB
1 MHz	<0.2 dB
10 MHz	<0.5 dB
<b>Cross Talk:</b>	
100 kHz	<-80 dB
1 MHz	<-70 dB
10 MHz	<-50 dB
<b>Isolation:</b>	
100 kHz	<-85 dB
1 MHz	<-70 dB
10 MHz	<-50 dB
<b>Rated Switch Operations:</b>	
Mechanical	1×10 <sup>7</sup>
Electrical	5×10 <sup>5</sup> Full load
<b>Switch Time:</b>	<5 ms



## Features

### SMP4028 8 (2x8) Coaxial Matrix

Ideal for Instrument Matrix Switching

High Voltage and Current Handling Capabilities

2 A Switching per Path

50 Ω Characteristic Impedance

Extensive Shielding Employed on PCB's for Excellent Signal Fidelity

VXI *plug&play* Drivers

Switching