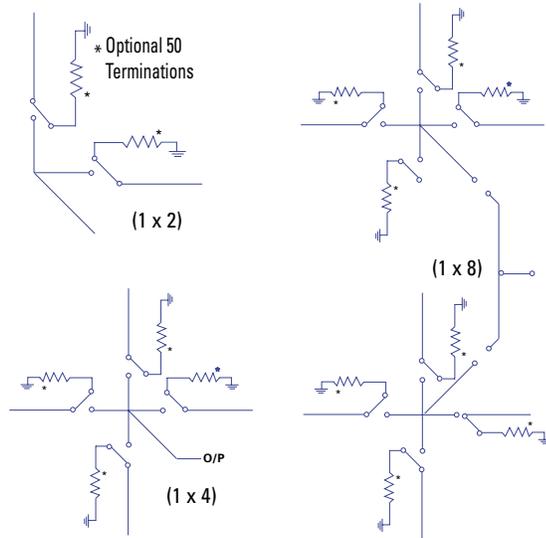


## 500 MHz Coaxial Stars



### Overview

The SMP6004 and SMP6005 are RF switch modules designed as star configurations. 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. 4 x 1 x 4).

For applications that require unswitched signal sources to be terminated into 50  $\Omega$ , optional 1/2 watt 50  $\Omega$  terminations can be provided. Both modules are configured to avoid any unterminated stub effects, and utilize high bandwidth RF relays.

The SMP6004 and SMP6005 are part of the SMIP//™ family and can be mixed and matched with other SMIP//™ modules to configure high-density switching systems.

### Specifications

<b>Maximum Switching Voltage:</b>	100 V
<b>Maximum Switching Current:</b>	0.5 A
<b>Maximum Switching Power:</b>	10 W (1/2 watt into 50 $\Omega$ terminations)
<b>Path Resistance:</b>	<1 $\Omega$
<b>Bandwidth (-3 dB):</b>	>500 MHz
<b>Insertion Loss:</b>	
100 MHz:	<0.2 dB
500 MHz:	<0.5 dB
<b>Crosstalk:</b>	
10 MHz:	<-70 dB
100 MHz:	<-65 dB
500 MHz:	<-60 dB
<b>Isolation:</b>	
10 MHz:	<-80 dB
100 MHz:	<-70 dB
500 MHz:	<-65 dB
<b>VSWR:</b>	
100 MHz:	<1.2:1
500 MHz:	<1.5:1
<b>Rated Switch Operations:</b>	
Mechanical:	5 x 10 <sup>6</sup>
Electrical:	1 x 10 <sup>5</sup> at full load
<b>Switching Time:</b>	<5 ms

# Features

SMP6004 3 1x8 and 3 1x2 Coaxial Stars  
SMP6005 8 1x4 Coaxial Stars

Greater than 500 MHz Bandwidths  
with Excellent Crosstalk and Isolation

10 W Maximum Switching Power

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

Ideal for General Purpose RF  
Switching with High Signal Fidelity

Optional 50  $\Omega$  Terminations (1/2 Watt)