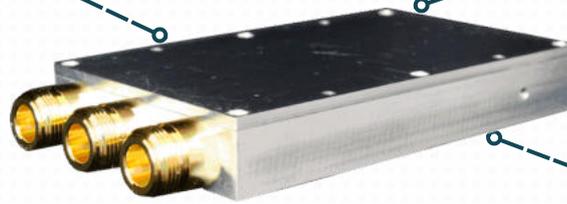


Scorpion 2-Way Passive Splitter/Combiner

850 - 2150 MHz

850-2150MHz
Operating frequency range.



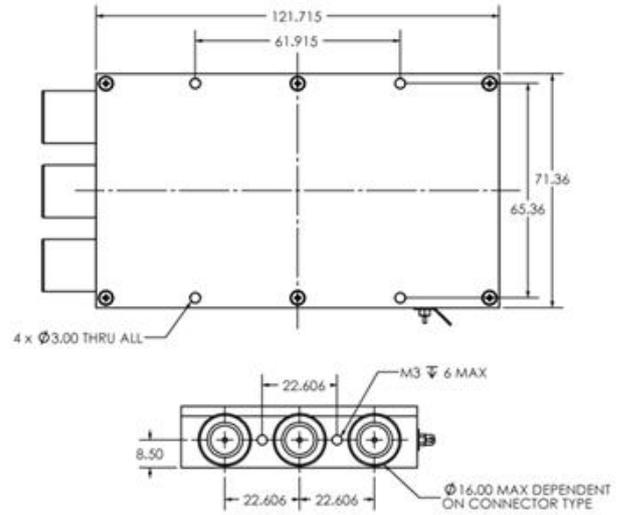
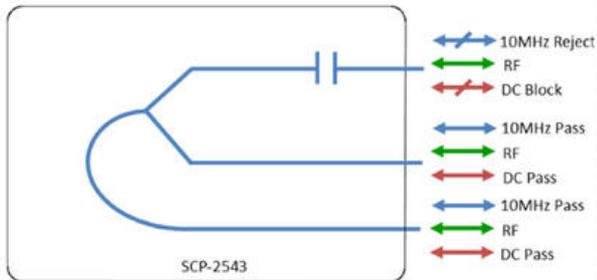
Chassis Mounting
Tapped screw & through hole for use with Scorpion 1U chassis mount system.

Compact
Housed in rugged compact enclosure.

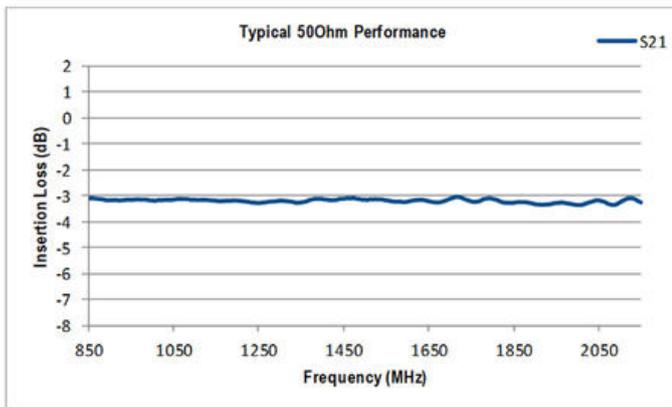
RF Parameters						
SCP-2543-XXXX	S5S5	N5N5	B5B5	B7B7	F7F7	
Frequency Range	850-2150MHz					
RF Connectors	50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type	
Flatness ± (dB)	0.4	0.4	0.4	0.6	0.6	
Insertion Loss (dB)	Typ.	0.7	0.7	1.0	1.0	1.0
	Max.	1.0	1.0	1.4	1.5	1.5
Input Return Loss (dB)	Typ.	18	18	18	18	18
	Min.	15	15	14	14	14
Output Return Loss (dB)	Typ.	18	18	18	18	18
	Min.	15	15	14	14	14
Isolation (dB)	Typ.	20	20	20	20	20
Amplitude Balance (dB)	≤ 0.3	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	
Phase Balance (Φ)	≤ 3°	≤ 4°	≤ 4°	≤ 4°	≤ 4°	
The given Insertion Loss specified is the loss above the theoretical limit for a lossless divider 10MHz Insertion Loss is up to 3dB above the theoretical loss* 10MHz Rejection is 20dB* *To ports which are applicable.						
Max Operating Parameters						
Input RF Power	+34 dBm (2.5W) As Splitter / 27 dBm (0.5W) As Combiner					
DC Voltage	35V on any RF port					
DC Current	1A Max total Current Max.					
Environmental						
Operating Temperature	0°C to +45°C					
Storage Temperature	-20°C to +75°C					
Location	Indoor use only					
Humidity (Max.)	85% non-condensing					
Altitude (Max.)	10,000 feet					

Diagrams

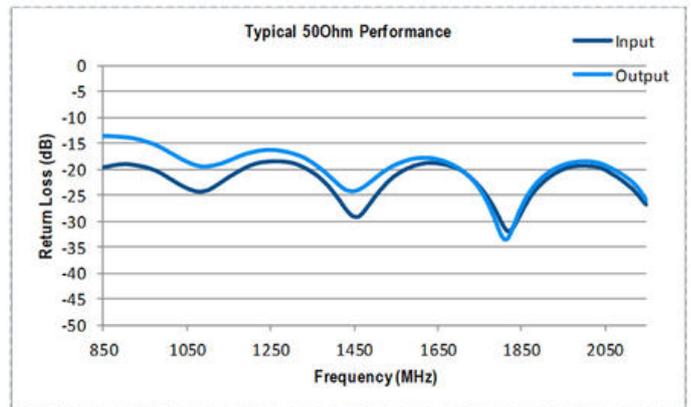
Dimensions (mm)



Test Plots



Insertion Loss (dB)



Return Loss (dB)

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.
 Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.