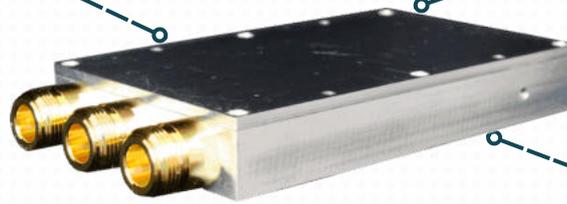


Scorpion 2-Way Passive Splitter/Combiner

850 - 2150 MHz

850-2150MHz
Operating frequency range.



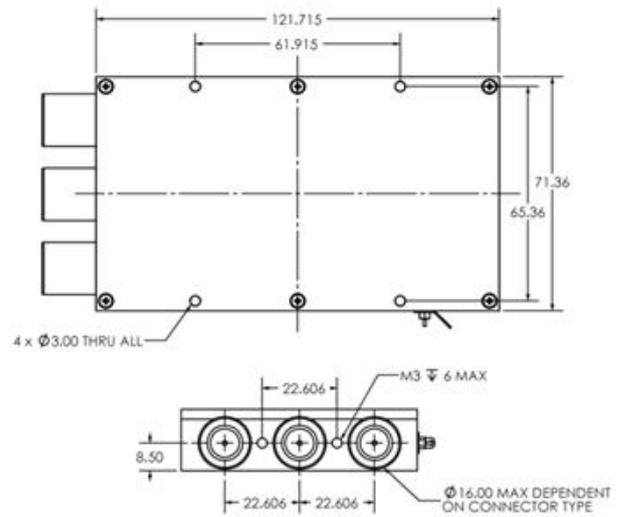
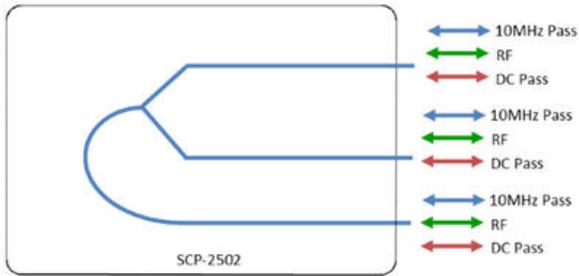
Chassis Mounting
Tapped screw & through hole for use with Scorpion 1U chassis mount system.

Compact
Housed in rugged compact enclosure.

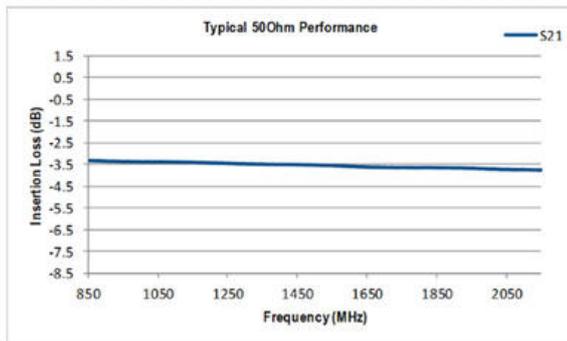
RF Parameters						
SCP-2502-XXXX	S5S5	N5N5	B5B5	B7B7	F7F7	
Frequency Range	850-2150MHz					
RF Connectors	50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type	
Flatness ± (dB)	0.4	0.4	0.4	1.0	1.0	
Insertion Loss (dB)	Typ.	0.7	0.7	1.0	1.5	1.5
	Max.	1.0	1.0	1.4	2.0	2.0
Input Return Loss (dB)	Typ.	18	18	17	14	14
	Min.	15	15	14	8	8
Output Return Loss (dB)	Typ.	18	18	17	14	14
	Min.	15	15	14	8	8
Isolation (dB)	Typ.	20	20	20	20	20
Amplitude Balance (dB)	≤ 0.3	≤ 0.5	≤ 0.5	≤ 1.0	≤ 1.0	
Phase Balance (Φ)	≤ 3°	≤ 4°	≤ 4°	≤ 10°	≤ 10°	
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*						
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

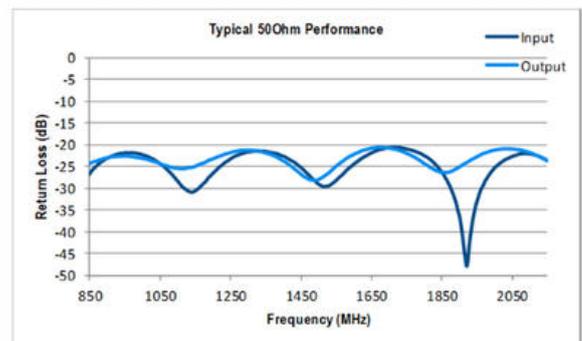
Dimensions (mm)



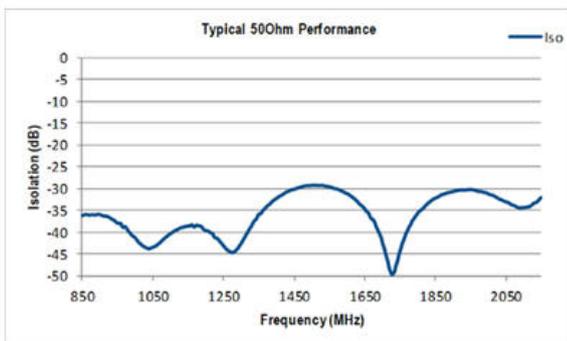
Test Plots



Insertion Loss (dB)



Return Loss (dB)



Isolation (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.