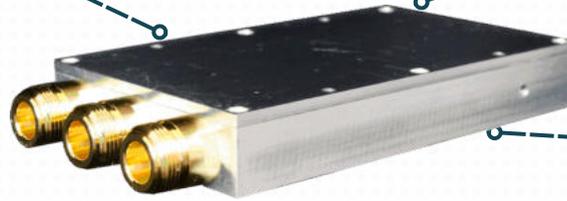


Scorpion 2-Way Passive Splitter/Combiner

10-3000MHz

10-3000MHz

Operating frequency range.



Chassis Mounting

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

Compact

Housed in rugged compact enclosure.

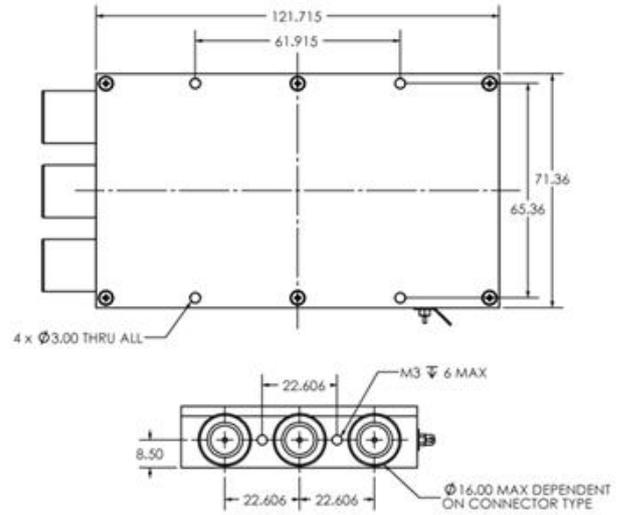
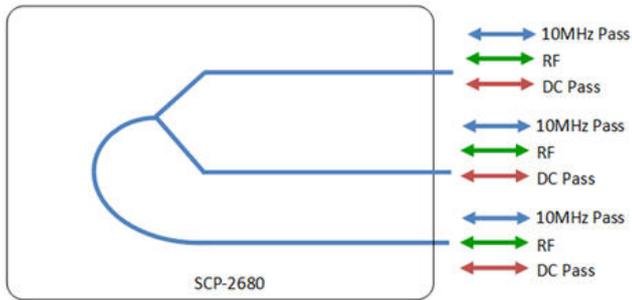
RF Parameters						
	S5S5	N5N5	B5B5	S5S5	N5N5	B5B5
Frequency Range	10-300MHz			300-3000MHz		
RF Connectors	50Ω SMA	50Ω N-Type	50Ω BNC	50Ω SMA	50Ω N-Type	50Ω BNC
Flatness ± (dB)	0.5	0.5	0.5	1.2	1.2	1.2
Insertion Loss (dB)	Typ.	0.5	0.5	0.8	0.8	0.8
	Max.	1.0	1.0	2.2	2.2	2.2
Input Return Loss (dB)	Typ.	10	10	20	20	20
	Min.	8	8	8	8	8
Output Return Loss (dB)	Typ.	10	10	20	20	20
	Min.	8	8	10	10	10
Isolation (dB)	Typ.	5	5	10	10	10
Amplitude Balance (dB)	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5
Phase Balance (Φ)	≤ 2°	≤ 2°	≤ 2°	≤ 2°	≤ 2°	≤ 2°

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*

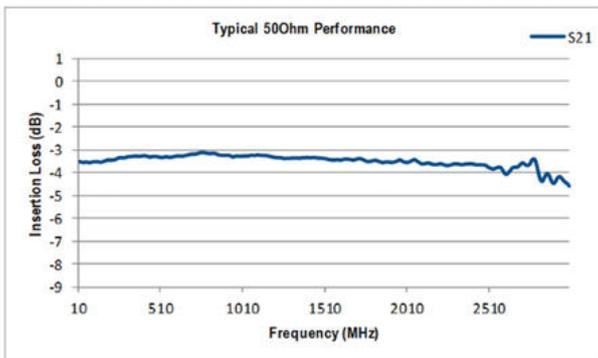
Max Operating Parameters	
Input RF Power	+34 dBm (2.5W) As Splitter / +27 dBm (0.5W) As Combiner
DC Voltage	35V on any RF port
DC Current	1A Max total Current Max.
Environmental	
Operating Temperature	0°C to +45°C
Storage Temperature	-20°C to +75°C
Location	Indoor use only
Humidity (Max.)	85% non-condensing
Altitude (Max.)	10,000 feet

Diagrams

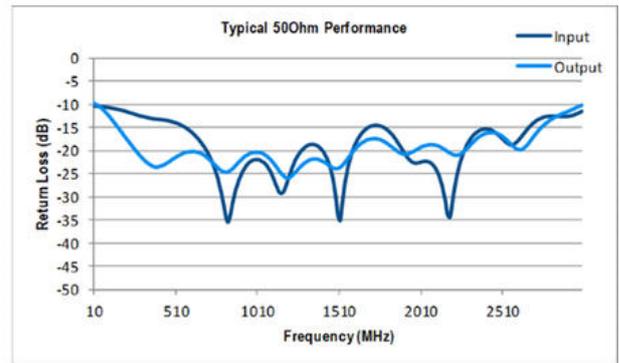
Dimensions (mm)



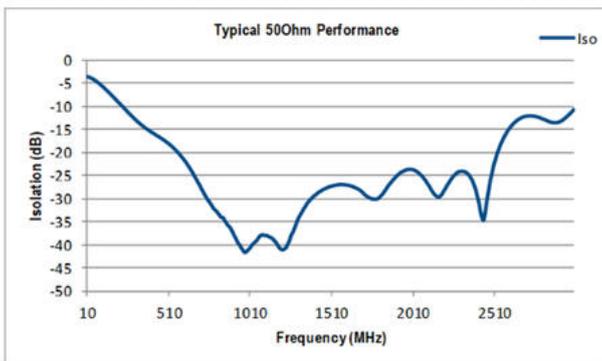
Test Plots



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.