

Scorpion 4-Way S/L-Band Passive Splitter/Combiner

850-2450MHz

850-2450MHz
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	B7B7	F7F7
Frequency Range		850-2450MHz				
RF Connectors		50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type
Mean Insertion Loss (dB)		1.5 ± 1.0	1.5 ± 1.0	1.5 ± 1.0	2.0 ± 1.0	2.0 ± 1.0
Flatness ± (dB)		0.9	0.9	0.9	1.0	1.0
Input Return Loss (dB)	Typ.	10	10	10	10	10
	Max.	8	8	8	8	8
Output Return Loss (dB)	Typ.	16	16	16	12	12
	Min.	14	14	14	8	8
Isolation (dB)	Typ.	20	20	20	20	20
Amplitude Balance (dB)		≤ 0.3	≤ 0.3	≤ 0.3	≤ 1.0	≤ 1.0
Phase Balance (Φ)		≤ 4°	≤ 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*

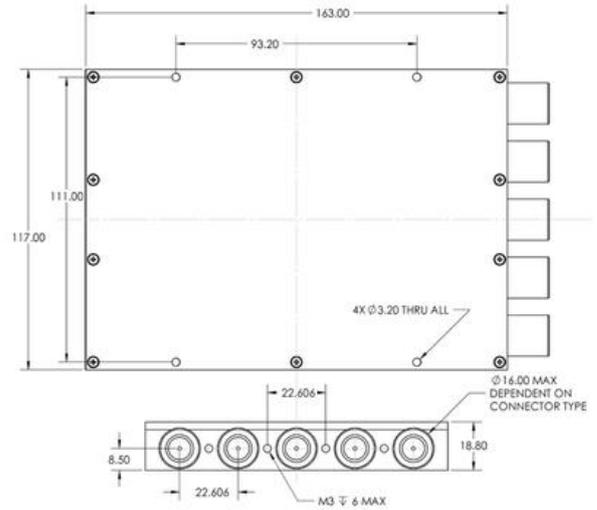
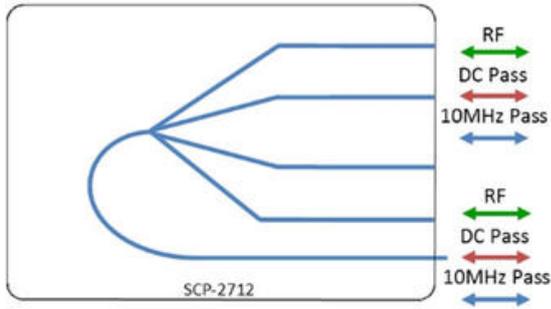
10MHz Rejection is 20dB*

*To ports which are applicable

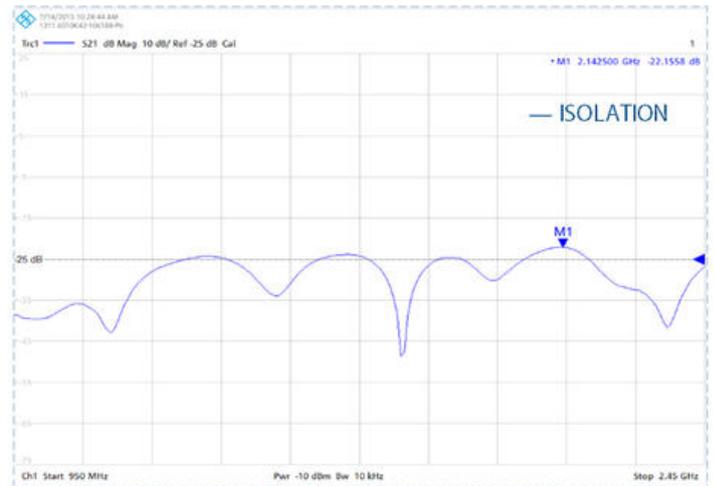
Max Operating Parameters	
Input RF Power	+34 dBm (2.5W) As Splitter +27dBm (0.5W) As Combiner
DC Voltage	35V on any RF port
DC Current	1A Max. total current
Environmental	
Operating Temperature	0°C to +45°C
Storage Temperature	-20°C to +75°C
Location	Indoor use only
Humidity (Max.)	85% non-condensing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

Diagrams

Dimensions (mm)



Test Plots



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.