

Scorpion 8-Way Passive Splitter/Combiner

850-2150MHz

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						
		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)		1.2	1.2	1.4	1.7	1.7
Insertion Loss (dB)	Typ.	1.2	1.2	1.5	2.5	2.5
	Max.	2.2	2.2	2.5	3.5	3.5
Input Return Loss (dB)	Typ.	18	18	15	14	14
	Min.	15	15	10	8	8
Output Return Loss (dB)	Typ.	23	23	20	15	15
	Min.	16	16	16	8	8
Isolation (dB)	Typ.	23	23	23	23	23
Amplitude Balance (dB)		≤ 3	≤ 4	≤ 4	≤ 10	≤ 10
Phase Balance (Φ)		≤ 0.3°	≤ 0.5°	≤ 0.5°	≤ 1.0°	≤ 1.0°

The given Insertion Loss specified is the loss above the theoretical limit for a lossless divider

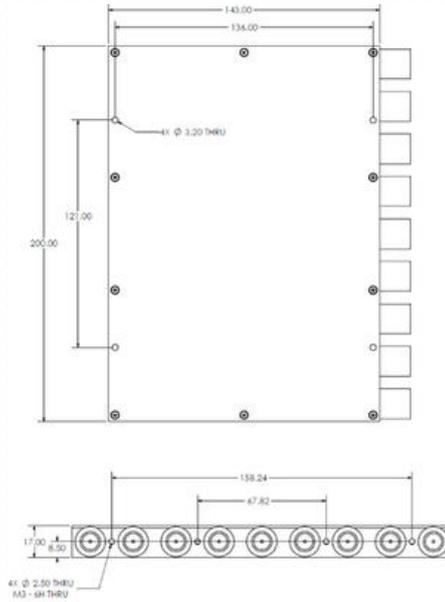
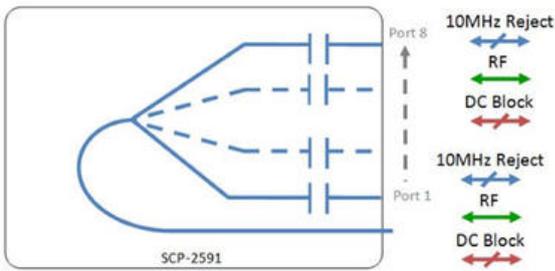
10MHz Rejection is 20dB*

*To ports which are applicable

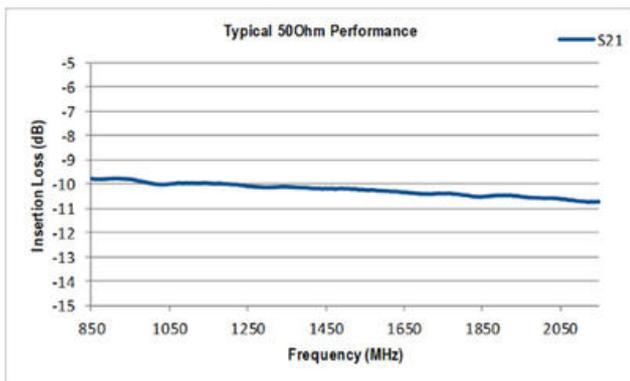
Max Operating Parameters	
Input RF Power	+34 dBm (2.5W) As Splitter +27dBm (0.5W) As Combiner
DC Voltage	35V on any RF port
DC Current	1A Max. total current
Environmental	
Operating Temperature	0°C to +45°C
Storage Temperature	-20°C to +75°C
Location	Indoor use only
Humidity (Max.)	85% non-condensing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

Diagrams

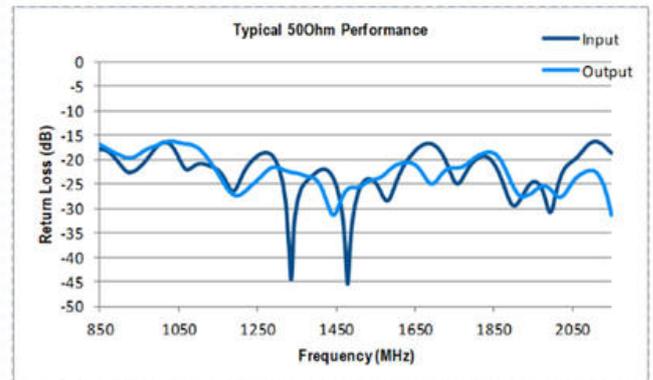
Dimensions (mm)



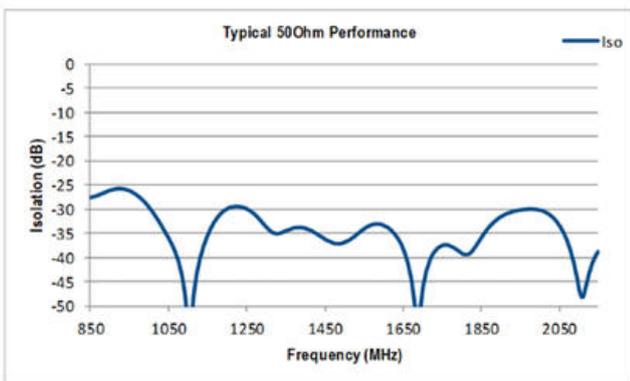
Test Plots



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.