

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.

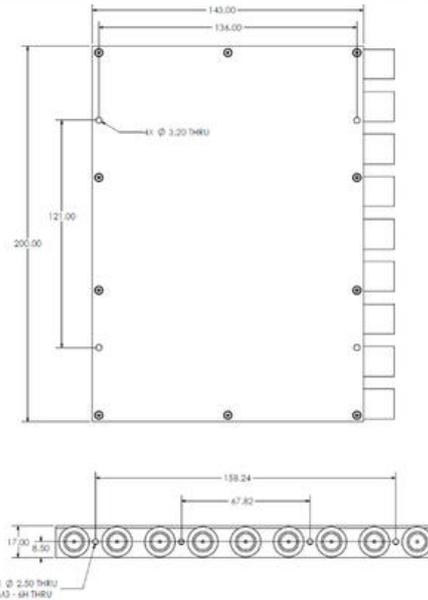
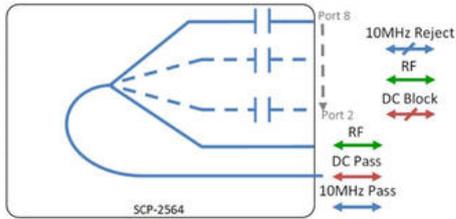
Compact

Housed in rugged compact enclosure.

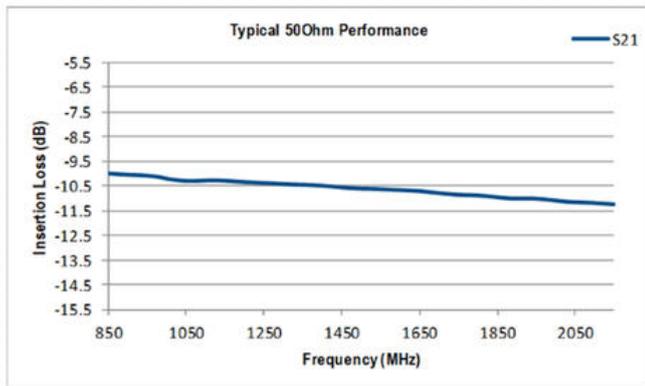
RF Parameters						
		S5S5	N5N5	B5B5	B7B7	F7F7
Frequency Range		850-2150MHz				
RF Connectors		50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type
Flatness ± (dB)		1.2	1.2	1.4	1.7	1.7
Insertion Loss (dB)	Typ.	1.2	1.2	1.5	2.1	2.1
	Max.	2.2	2.2	2.5	3.0	3.0
Input Return Loss (dB)	Typ.	18	18	15	14	14
	Min.	15	15	15	8	8
Output Return Loss (dB)	Typ.	23	23	20	15	15
	Min.	16	16	16	10	10
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 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

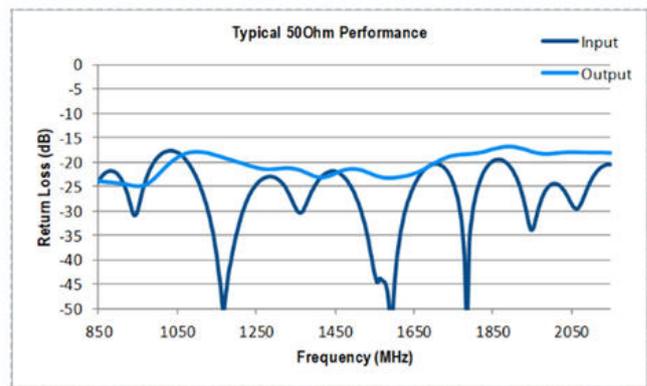
Dimensions (mm)



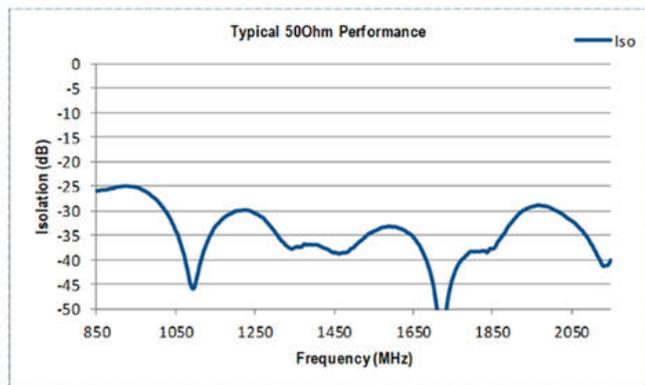
Test Plots



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.