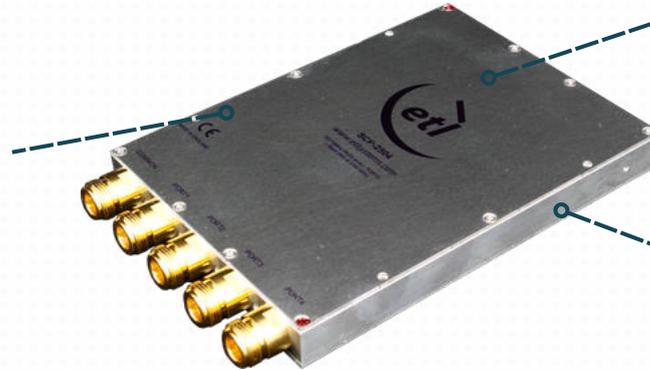


# Scorpion 4-Way Passive Splitter/Combiner

L-band 50-1000MHz

50-1000MHz  
Operating frequency  
range.



**Chassis Mounting**

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

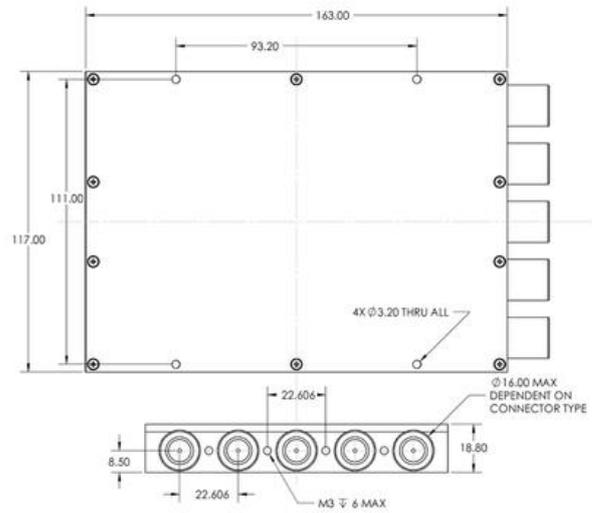
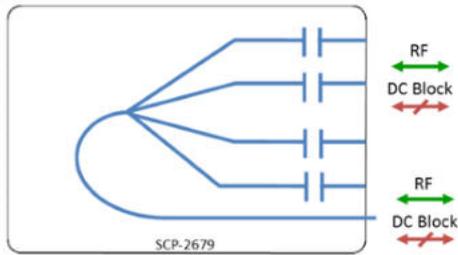
**Compact**

Housed in rugged compact enclosure.

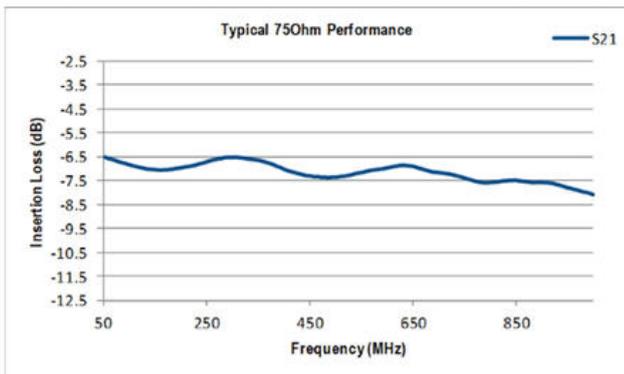
RF Parameters						
		S5S5	N5N5	B5B5	B7B7	F7F7
Frequency Range		50-1000MHz				
RF Connectors		50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type
Flatness ± (dB)		1.2	1.2	1.4	1.7	1.7
Insertion Loss (dB)	Typ.	1.0	1.0	1.0	1.5	1.5
	Max.	2.1	2.1	2.1	2.7	2.7
Input Return Loss (dB)	Typ.	18	18	18	14	14
	Min.	12	12	12	8	8
Output Return Loss (dB)	Typ.	20	20	20	14	14
	Min.	15	15	15	8	8
Isolation (dB)	Typ.	16	16	16	16	16
Amplitude Balance (dB)		≤ 0.5	≤ 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						
Max Operating Parameters						
Input RF Power		+27 dBm (0.5W) As Splitter / +21dBm (0.125W) As Combiner				
DC Voltage		50V on any RF port				
DC Current		N/A				
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

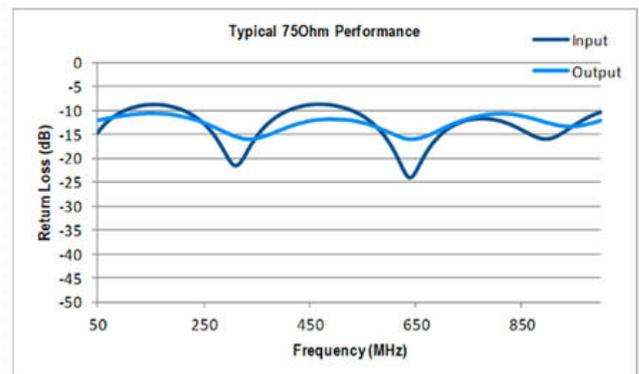
### Dimensions (mm)



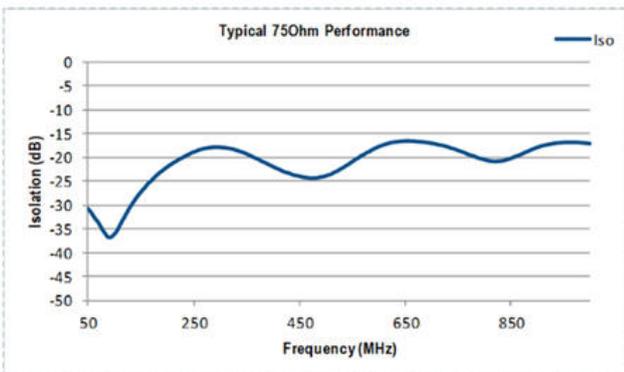
## Test Plots



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.