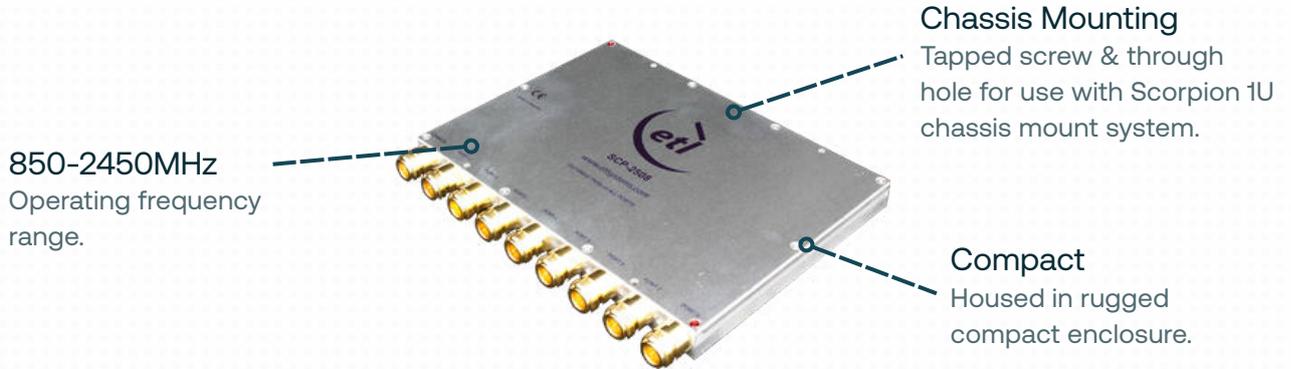


# Scorpion 8-Way S/L-Band Passive Splitter/Combiner

## 850-2450MHz



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)		1.0	1.0	1.0	2.0	2.0
Input Return Loss (dB)	Typ.	16	16	16	12	12
	Min.	14	14	14	8	8
Output Return Loss (dB)	Typ.	18	18	18	12	12
	Min.	16	16	16	8	8
Isolation (dB)	Typ.	25	25	25	25	25
Amplitude Balance (dB)		≤ 0.5	≤ 0.5	≤ 0.5	≤ 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 4dB above the theoretical loss\*

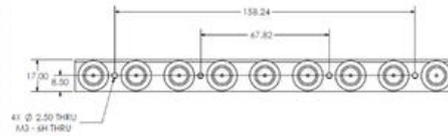
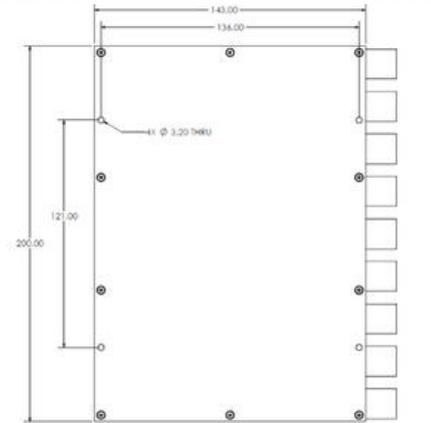
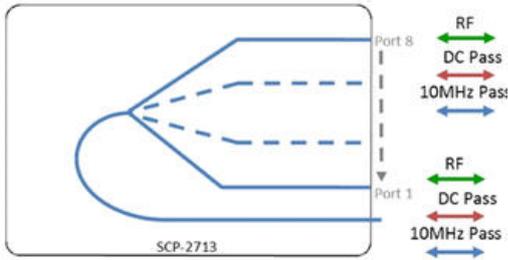
\*To ports which are applicable

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

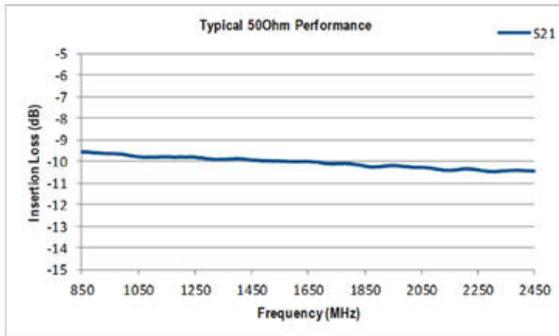
Environmental	
Operating Temperature	0°C to +45°C
Storage Temperature	-20°C to +75°C
Location	Indoor use only
Humidity (Max.)	85% non-condensing
Altitude (Max.)	10,000 feet

## Diagrams

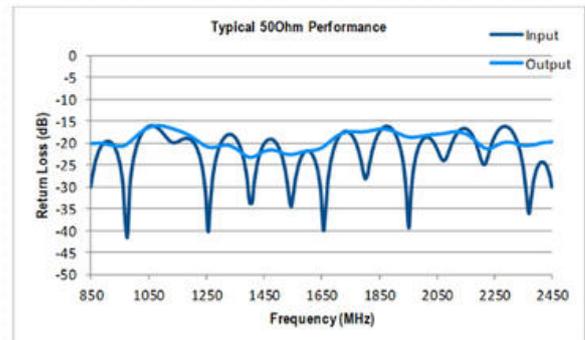
### Dimensions (mm)



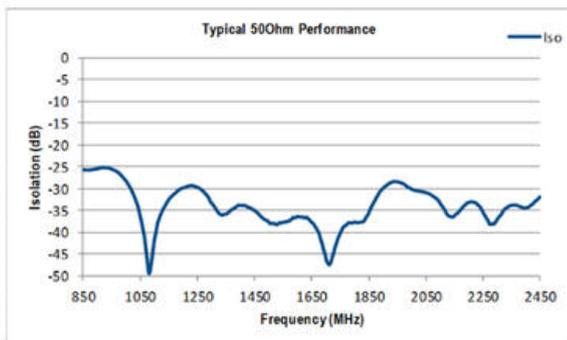
## Test Plots



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.