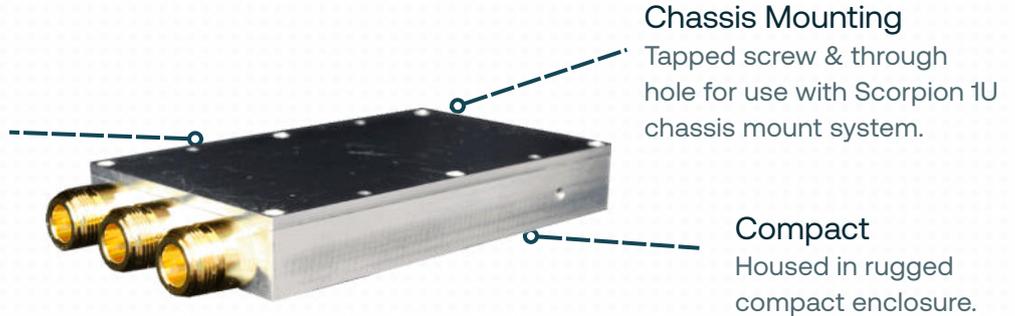


Scorpion 2-Way L-Band Passive Splitter/Combiner

850 - 2450 MHz

850-2450MHz
Operating frequency range.



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	
Mean insertion Loss (dB)	0.7±0.3	0.7±0.3	0.7±0.3	1±0.8	1±0.8	
Flatness ± (dB)	0.5	0.5	0.5	1.0	1.0	
Input Return Loss (dB)	Typ.	18	18	17	14	14
	Min.	15	15	14	8	8
Output Return Loss (dB)	Typ.	18	18	17	14	14
	Min.	15	15	14	8	8
Isolation (dB)	Typ.	20	20	20	18	18
Amplitude Balance (dB)	≤ 0.2	≤ 0.2	≤ 0.2	≤ 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 / +27 dBm (0.5W) As Combiner
DC Voltage	35V on any RF port
DC Current	1A Max total Current Max.
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

Preliminary Specifications

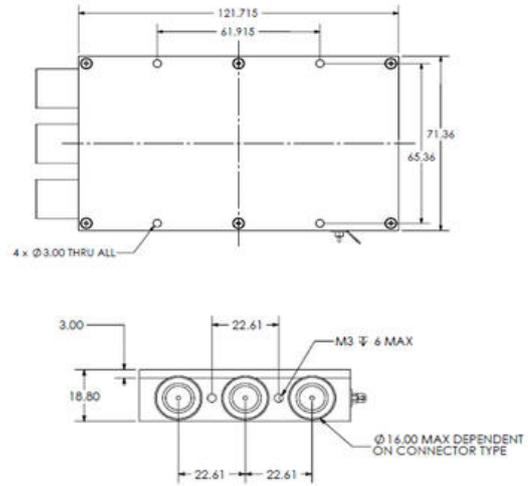
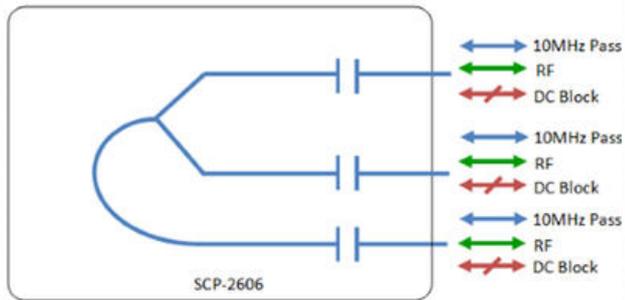
RF Parameters						
		S5S5	N5N5	B5B5	B7B7	F7F7
Frequency Range		850-2450MHz				
RF Connectors		50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type
Mean insertion Loss (dB)		0.7±0.3	0.7±0.3	0.7±0.3	1±0.8	1±0.8
Flatness ± (dB)		0.7	0.7	0.7	1.2	1.2
Input Return Loss (dB)	Typ.	18	18	17	14	14
	Min.	15	15	14	8	8
Output Return Loss (dB)	Typ.	18	18	17	14	14
	Min.	15	15	14	8	8
Isolation (dB)	Typ.	20	20	20	18	18
Amplitude Balance (dB)		≤ 0.2	≤ 0.2	≤ 0.2	≤ 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 +27 dBm (0.5W) As Combiner
DC Voltage	35V on any RF port
DC Current	1A Max total Current Max.
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)



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.