Scorpion8-Way IF-Band Passive Splitter/Combiner

10-1000MHz

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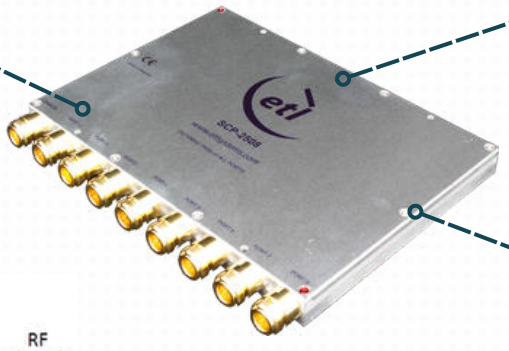
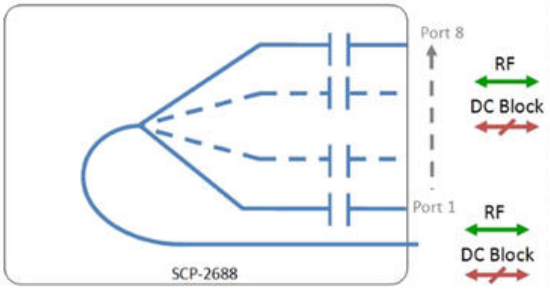
Operating frequency range.



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		10-200MHz				
RF Connectors		50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type
Mean Insertion Loss (dB)		1.5 ± 0.5	1.5 ± 0.5	1.5 ± 0.5	2.0 ± 0.5	2.0 ± 0.5
Flatness ± (dB)		0.3	0.3	0.3	0.8	0.8
Input Return Loss (dB)	Typ.	25	25	25	14	14
	Min.	22	22	22	8	8
Output Return Loss (dB)	Typ.	22	22	22	14	14
	Min.	18	18	18	8	8
Isolation (dB)	Typ.	22	22	22	20	20
Amplitude Balance (dB)		≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0
Phase Balance (Φ)		≤ 5°	≤ 5°	≤ 5°	≤ 5°	≤ 5°

The given Insertion Loss specified is the loss above the theoretical limit for a lossless divider
10MHz Insertion Loss is up to 9dB above the theoretical loss*
10MHz Rejection is 20dB*
*To ports which are applicable

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.

RF Parameters						
		S5S5	N5N5	B5B5	B7B7	F7F7
Frequency Range		200-1000MHz				
RF Connectors		50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type
Mean Insertion Loss (dB)		2.2 ± 0.5	2.2 ± 0.5	2.2 ± 0.5	2.8 ± 0.5	2.8 ± 0.5
Flatness ± (dB)		0.9	0.9	0.9	1.2	1.2
Input Return Loss (dB)	Typ.	20	20	20	12	12
	Min.	15	15	15	8	8
Output Return Loss (dB)	Typ.	22	22	22	12	12
	Min.	18	18	18	8	8
Isolation (dB)	Typ.	16	16	16	14	14
Amplitude Balance (dB)		≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5
Phase Balance (Φ)		≤ 8°	≤ 8°	≤ 8°	≤ 8°	≤ 8°
The given Insertion Loss specified is the loss above the theoretical limit for a lossless divider 10MHz Insertion Loss is up to 9 dB above the theoretical loss* 10MHz Rejection is 20dB*						
Max Operating Parameters						
Input RF Power		+27 dBm (500mW) As Splitter +18dBm (62.5W) As Combiner				
DC Voltage		35V 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)