



Model Number:  
**SCP-2688**

RF Components

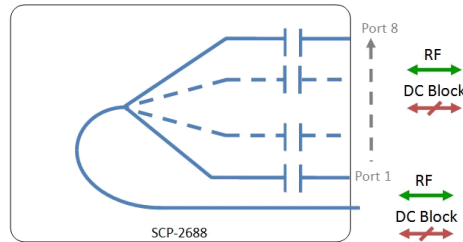
# 8-Way IF-Band Passive Splitter/Combiner

10 - 1000 MHz

- All ports DC blocked
- All connectors located on rear of unit
- To be used as standalone unit or fitted to the Scorpion 1U rack mount chassis SCP-1U-11

Available with RF connector options:

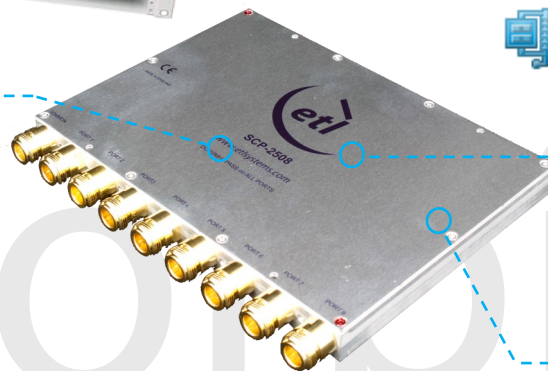
- 50 Ω SMA
- 50 Ω N-type
- 50 Ω BNC
- 75 Ω BNC



**10-1000 MHz**  
Operating frequency range. IF-Band ready

**Compact**  
Housed in rugged compact enclosure

**Flexible Mounting**  
Tapped screw & through hole mounting options



Scorpion

RF Parameters						
SCP-2688-XXXX	S5S5	N5N5	B5B5	B7B7	F7F7	
Frequency Range	10-200 MHz					
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

## Broadcast



## Marine Oil & Gas



## SNG & VSAT



## Satellite Teleport



**Technical specifications and operating parameters**

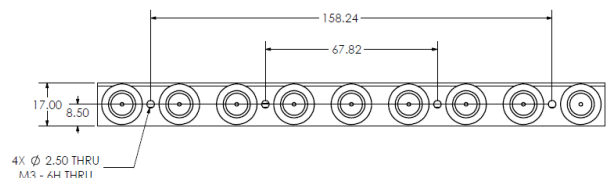
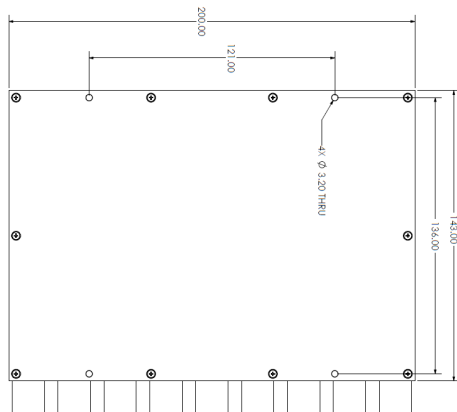
RF Parameters					
SCP-2688-XXXX	S5S5	N5N5	B5B5	B7B7	F7F7
Frequency Range	200-1000 MHz				
RF Connectors	50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type
Mean Insertion Loss (dB)	2.2 ± 0.5	2.2 ± 0.5	2.2 ± 0.5	2.8 ± 0.5	2.8 ± 0.5
Flatness ± (dB)	0.9	0.9	0.9	1.2	1.2
Input Return Loss (dB)	20	20	20	12	12
	15	15	15	8	8
Output Return Loss (dB)	22	22	22	12	12
	18	18	18	8	8
Isolation (dB)	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* *To ports which are applicable					

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

Max Operating Parameters	
Input RF Power (As Splitter)	+27 dBm (500mW)
Input RF Power (As Combiner)	+18 dBm (62.5W)
DC Voltage	35V on any RF port
DC Consumption	N/A

**!** Operation beyond these limits may cause instantaneous and permanent damage.

**Physical Dimensions (mm)**



Note: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved specification accuracy.