



8-way L-band Active Hybrid Splitter & Combiner

with DC & 10MHz Pass

Typical applications:

- VSAT networks
- SNG & outside broadcast trucks
- Teleports with limited rack space

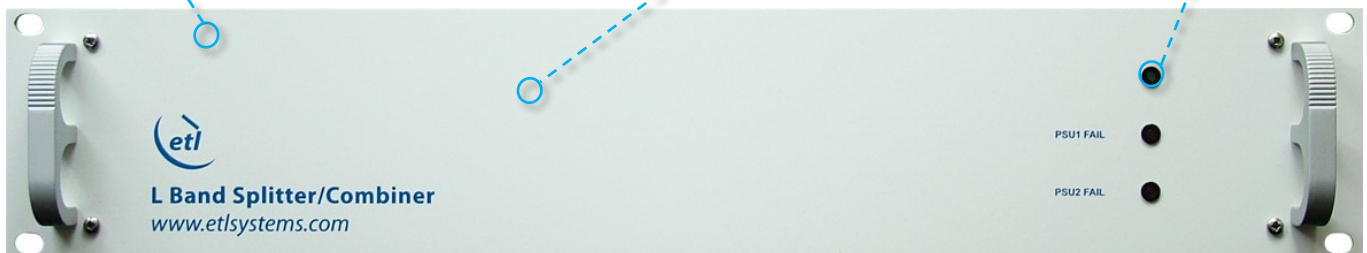
← **DC & 10MHz Pass** from port 1 to the common port. All other ports DC blocked



850 - 2150 MHz operating frequency range



Local monitoring via front panel LEDs



Compact 8-way splitter & combiner housed in a 2U high chassis



Resilience from dual redundant power supplies



Dry contact alarm port for power supply (PSU) status



Technical specifications and operating parameters

RF Parameters						
SPLITTER						
Capacity	8-way					
Frequency Range	850-2150 MHz (L-band)					
DC Block	Ports 2-8 Blocked, Port 1 to common is DC passing					
10MHz	Port 1 to common passes. Port 2-8 blocked					
RF Connectors	50Ω SMA	50Ω N-type	50Ω BNC	75Ω BNC	75Ω F-type	
Gain, typical, mean across band	0±1.5 dB	0±1.5 dB	0±1.5 dB	0±2.5 dB	0±2.5 dB	
Flatness	850-2150MHz	±1.0 dB	±1.2 dB	±1.5 dB	±2.0 dB	±2.0 dB
	Any 36MHz	±0.5 dB	±0.5 dB	±0.75 dB	±1.0 dB	±1.0 dB
Input Return Loss	Typical	18 dB	16 dB	15 dB	10 dB	10 dB
	Minimum	14 dB	12 dB	12 dB	7 dB	7 dB
Output Return Loss	Typical	18 dB	16 dB	15 dB	10 dB	10 dB
	Minimum	14 dB	12 dB	12 dB	7 dB	7 dB
Isolation, typical between any 2 outputs	25 dB	25 dB	25 dB	25 dB	25 dB	
Noise Figure, typical	9 dB	9 dB	9 dB	9 dB	9 dB	
1dB Gain Compression Point, output power	0 dBm	0 dBm	0 dBm	0 dBm	0 dBm	
Input RF Power	+ 10 dBm Absolute maximum					
COMBINER						
Capacity	8-way					
Frequency Range	850-2150 MHz (L-band)					
DC Block	Ports 2-8 Blocked, Port 1 to common is DC passing					
10MHz	Port 1 to common passes. Port 2-8 blocked					
RF Connectors	50Ω SMA	50Ω N-type	50Ω BNC	75Ω BNC	75Ω F-type	
Gain, typical, mean across band	0±1.5 dB	0±1.5 dB	0±1.5 dB	0±2.5 dB	0±2.5 dB	
Flatness	850-2150MHz	±1.0 dB	±1.2 dB	±1.5 dB	±2.0 dB	±2.0 dB
	Any 36MHz	±0.5 dB	±0.5 dB	±0.75 dB	±1.0 dB	±1.0 dB
Input Return Loss	Typical	18 dB	18 dB	14 dB	10 dB	10 dB
	Minimum	14 dB	14 dB	10 dB	8 dB	8 dB
Output Return Loss	Typical	18 dB	18 dB	14 dB	10 dB	10 dB
	Minimum	14 dB	14 dB	10 dB	8 dB	8 dB
Isolation, typical between any 2 outputs	25 dB	25 dB	25 dB	25 dB	25 dB	
Noise Figure, typical	15 dB	15 dB	15 dB	15 dB	15 dB	
1dB Gain Compression Point, output power	+10 dBm	+10 dBm	+10 dBm	+10 dBm	+10 dBm	
Input RF Power	+ 10 dBm Absolute maximum					

Environmental	
Operating temperature	0 to 45°C
Location	Indoor use only
Storage temperature	-20°C to +75°C
Humidity	20 to 90% non-condensing
Altitude	10,000 feet Above Mean Sea Level (AMSL)

Power		
PSU Power	85-264Vac 50-60Hz	Fused 2A
AC Consumption	9W	Max. consumption at steady state
LNB Power	None	
PSU	Dual redundant & alarmed	Diode OR. Not hot swap.

System Control	
Local Monitoring	Via Front Panel status LEDs
Alarms	Dry contact (D-type) for PSU status

Physical	
Dimensions	2U high x 350mm deep x 19" wide
Weight	8 kg
Colour	White 00-E-55 semi-gloss

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.