



ETL Systems  
Excelling in RF Engineering

Model Number:  
D0102T2ULA-22276-XXXX

# 2-Way Triple L-band Active Splitter

## With LNB Powering & internal 10MHz Source

### Typical applications:

- Satellite operators, VSAT, teleports, and broadcasters
- High resilience RF distribution where optimum satellite signal quality is required
- Teleports with limited rack space

This L-band splitter shelf contains 3 of ETL's 2-way active splitter modules and is housed in a 2U high shelf. The unit has dual redundant power supplies and can be used to provide LNB powering (the LNB bias for each RF input port can be switched on and off from the rear panel). The unit has a dry contact alarm for PSU failure.



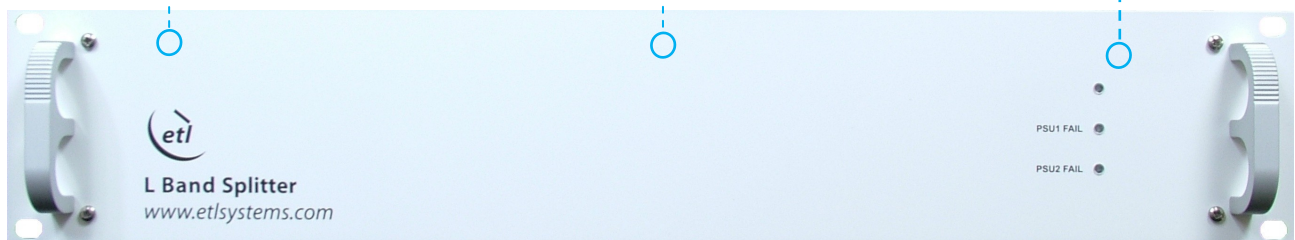
**10MHz** Internal 10MHz Source



**850 - 2150 MHz**  
operating frequency range.



**Local monitoring** Front  
Panel LED's for monitoring  
PSU's



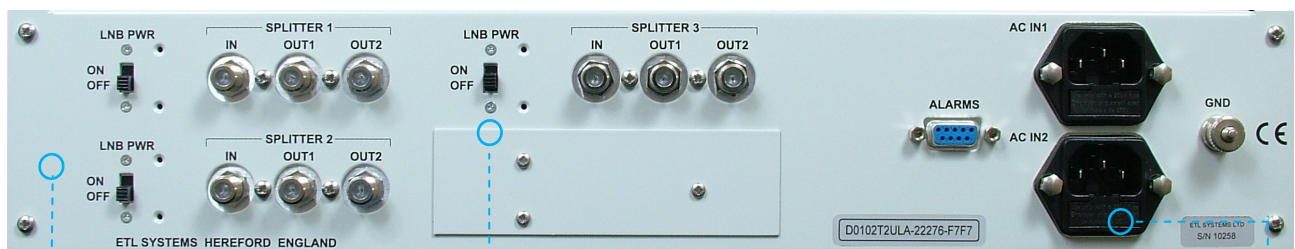
**Compact 2U**  
chassis housing  
3 2-way splitters



**18V LNB Powering**  
Switchable LNB powering  
(on/off) selectable for each  
splitter module



**Resilience**  
from dual  
redundant  
power supplies







**Technical specifications and operating parameters**

RF Parameters						
Capacity		2- way (Triple)				
Frequency Range		850-2150 MHz (L-band)				
Connector & Impedance		50 Ω SMA	50 Ω BNC	50 Ω N-type	75 Ω BNC	75 Ω F-type
Gain		1 ± 1.0 dB	1 ± 1.0 dB	1 ± 1.0 dB	1 ± 1.0 dB	1 ± 1.0 dB
Flatness	850-2150MHz	± 1.0 dB	± 1.0 dB	± 1.0 dB	± 1.2 dB	± 1.25 dB
	Any 36MHz	± 0.35 dB	± 0.50 dB	± 0.35 dB	± 0.50 dB	± 0.50 dB
Input Return Loss	Typical	15 dB	15 dB	15 dB	12 dB	12 dB
	Minimum	10 dB	10 dB	10 dB	8 dB	8 dB
Output Return Loss	Typical	18 dB	18 dB	18 dB	15 dB	12 dB
	Minimum	12 dB	12 dB	12 dB	8 dB	8 dB
1dB Compression		0 dBm (Typically 5 dBm) output power				
Noise Figure		<10 dB (Typically 7 dB)				
LNB Power		18V nominal, 500mA max per channel, switchable on/off power				
Alarms		Dry contact alarm				
AC Power		85-264 VAC (50/60Hz)				
Input RF power		+18dBm Absolute Maximum				
PSU		Dual Redundant (Diode OR)				
Display		Front Panel LED's for monitoring PSU's				
Operating temperature		0 to 45°C (Indoor use only)				
Storage temperature		-20°C to +75°C				
Humidity		85% non-condensing				
Dimensions		2U high x 350mm deep x 19" wide				
Weight		8 kg				
Colour		White 00-E-55 semi-gloss				
10MHz Source						
Output	Type	Sine Wave				
	Frequency	10MHz ± 10Hz, 1ppm				
	Level	0 ± 2 dBm, fundamental				
Harmonic Rejection		>40dBc (50dBc nominal)				
Ageing	Per day	< ± 2 x 10 <sup>-9</sup>				
	Per year	< ± 5 x 10 <sup>-7</sup>				
Frequency Stability over temperature		< ± 3 x 10 <sup>-8</sup>				
Warm up time		< 2 min at 25°C to < ± 1 x 10 <sup>-7</sup>				
Phase Noise	1Hz	< -85				
	10Hz	< -115				
	100Hz	< -140				
	1KHz	< -150				
	10KHz	< -155				

Preliminary Specifications