ETL Systems
Excelling in RF Engineering

Model Number:
D0116S1ULA-22522-12-XXXX

16-way Single L-band Active Splitter with –2-28 dB variable gain, 0-8 dB variable slope compensation, dual redundant, hot-swap amplifiers & hot-swap power supplies

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

Resilience from dual redundant, hot-swap power supplies

Variable Gain & Slope Compensation to balance input signals

Local control & monitoring via front panel LCD & keypad

Resilience from dual redundant, hot-swap amplifier modules

850-2150 MHz operating frequency range

Compact housed in a 1U high chassis

Dry contact alarm For summary alarm status

Remote control & monitoring via RJ45 Ethernet port with SNMP & web browser interface

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Technical specifications and operating parameters

RF Parameters					
Capacity		16 way Splitter		Single input	
Frequency Range		850-2150 MHz (L-band)			
Gain	Maximum	28 ± 2 dB			
	Minimum	-2 ± 2 dB			
Gain Flatness	Full band	±1.50 dB		At 0 dB slope setting	
	Any 36MHz	±0.25 dB			
Slope Range		0 to 8 dB			
Slope Settings		1±0.25 dB		Mean slope	
RF Connectors		50Ω SMA	50Ω BNC	75Ω BNC	75Ω F-type
Input Return Loss	Typical	18 dB	18 dB	12 dB	12 dB
	Minimum	14 dB	14 dB	8 dB	8 dB
Output Return Loss	Typical	18 dB	18 dB	12 dB	12 dB
	Minimum	14 dB	14 dB	8 dB	8 dB
Isolation		>22 dB between any RF ports			
Noise Figure At max gain and 0 dB slope setting	Typical	10.0 dB			
	Maximum	12.0 dB			
1 dB GCP At max gain and 0 dB slope setting	Typical	+1 dBm			
	Minimum	-1 dBm			
OIP3 At max gain and 0 dB slope setting		≥ +17 dBm			
OIP2 At max gain and 0 dB slope setting	Typical	+31 dBm			
	Minimum	+27 dBm			
Max Input Level		+20 dBm			
In band, signal independent spurii		< -85 dBm			

Environmental	
Operating temperature	0 to 55˚C
Location	Indoor use only
Storage temperature	-20˚C to +75˚C
Humidity	85% non-condensing
Altitude	10,000 feet AMSL. Above Mean Sea Level

Power		
PSU Power	85-264Vac 50-60Hz	Fused 2A
AC Consumption	<50W	Max. consumption at steady state
PSU	Dual redundant	Dual IEC inlet
Hot-swap PSU	Yes	

System Control	
Local Control	Via Front Panel LCD and push buttons
Remote Control	Via RJ45 Ethernet port 10BaseT/100BaseTx. TCP/IP, SNMP & Web browser interface.
Alarms	Dry contact, change-over via 9-way D-type on summary alarm. Ethernet (RJ45) for PSU & Amp. status

Physical	
Dimensions	1U high x 550mm deep x 19” wide
Weight	4.5 kg
Colour	RAL9003— White (Semi-Matte)

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.

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