ETL Systems
Excelling in RF Engineering

Model Number:
D0104D1ULA-22513-XXXX

4-way Dual Active Dextra Series S-band Splitter

Typical applications:
- Satellite operators, VSAT, teleports & broadcasters
- High resilience RF distribution where optimum satellite signal quality is required

850 - 3150 MHz operating frequency range

LNB Powering 0/13V/18Vdc, 500mA with 22kHz tone

Signal Monitoring via –20 dB monitor port

Local Monitoring via front panel status LEDs for power & PSU

Compact dual 4-way splitter housed in a 1U high chassis

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

Dry contact alarm port for power supply status & LNB supply alarms

Resilience from dual redundant power supplies

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RF Parameters					
Capacity		Dual 4-way Splitter			
Front panel monitor		50Ω SMA		-20dB, 14dB return loss	
Frequency		850-3150MHz			
Connector & impedances		50Ω BNC	50Ω SMA	75Ω F-type	75Ω BNC
Gain Flatness	850-3150 MHz	±1.0 dB	±1.0 dB	±1.2 dB	±1.2 dB
Input Return Loss	Minimum	14 dB	14 dB	14 dB	14 dB
Output Return Loss	Minimum	14 dB	14 dB	14 dB	14 dB
Gain		0 ± 1.5 dB		Mean across band	
Group Delay	850-3150 MHz	2 ns maximum			
	Any 36 MHz	1 ns maximum			
Amplification		Single path amplifier (standard model)			
Isolation 850-2250MHz	Typical	28 dB	28 dB	28 dB	28 dB
	Minimum	24 dB	24 dB	24 dB	24 dB
Isolation 2250-3150MHz	Typical	28 dB	28 dB	22 dB	22 dB
	Minimum	24 dB	24 dB	20 dB	20 dB
Noise Figure (Typ.)	50Ω	16 dB			
	75Ω	18 dB			
1dB Gain Compression Point (output)		0 dBm			
OIP3		+13 dBm			
OIP2		+30 dBm			
3rd order intermodulation level		-40 dBc	With 2 equi-magnitude –13 dBm carriers. Total power -10 dBm.		
In Band Spurious		<-80 dBm			
Input RF Power		16 dBm Absolute Maximum			

Power		
AC Power	85-264Vac 50-60Hz	Fused 2A
AC Consumption	<20W	At steady state. With max rated LNB current supplied
LNB Power	0/13V/18Vdc, 500mA max via common (RF in) port, over current protected at 800mA typical. 22kHz tone on/off enabled/disabled through comms. Monitored, alarms and status available through comms. Thresholds settable by user through comms.	
PSU	Dual redundant PSUs with dual IEC inlets.	Diode OR
Hot-swap PSU	No	

System Control	
Monitoring & Remote Control	Redundant amplifiers, LNB current and power supplies monitored via RJ45 port with 10baseT/100baseTX Ethernet offering web browser access, SNMP and ETL proprietary TCP protocol
Alarms	Dry contact, change-over via 9-way D-type. Available alarms are: PSU and LNB supply. Full status and alarms are also available via the Ethernet interface.
Display	Tri colour LEDs to indicate PSU, LNB supply and amplifier status.

Environmental	
Operating temperature	0 to 50˚C
Location	Indoor use only
Storage temperature	-20˚C to +75˚C
Humidity	85% non-condensing
Altitude	10,000 feet Above Mean Sea Level (AMSL)

Physical	
Dimensions	1U high x 350mm deep x 19" wide
Weight	3.05 Kg
Colour	White 00-E-55 semi-gloss

Note 1: typical parameters are guide figures and measured data may deviate from quoted figures. ETL endeavours to exceed the quoted typical parameters where practically possible

Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.

Note 3: The spec table is subject to regular reviews and will be updated from time to time as part of out continuing product development and improved spec accuracy

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