ETL Systems

Excelling in RF Engineering

Model Number:
2785-xxxx

(2 Port LNB Power Supply) with switchable 13/18V & 22 KHz tone, external 10 MHz injection, current monitoring, local & remote control.

Typical applications:

- Satellite teleports between satellite modems & LNB
- Feed DC power & an external 10MHz reference signal to 2 LNBs

10 MHz reference signal can be passed from an external source

Local control & monitoring with switchable 13/18V 22 KHz tone

850 - 2150 MHz operating frequency range.

Compact housed in a 1U high chassis

Resilience from dual redundant hot-swap power supplies

Dry contact alarm port & serial communications for amplifier & power supply status

Remote control & monitoring via RJ45 Ethernet port

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2 Port LNB Power Supply

Technical specifications and operating parameters

RF Parameters						
Capacity		2 channel				
Frequency Range		850-2150 MHz (L-band)				
RF Connectors		50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type
Insertion Loss		<1 dB	<1 dB	<1 dB	<1.2dB	<1.2 dB
Flatness		±0.3 dB	±0.3 dB	±0.3 dB	±0.6 dB	±0.6 dB
Input Return Loss	Typical	15 dB	14 dB	16 dB	12 dB	12 dB
	Minimum	12 dB	12 dB	12 dB	8 dB	8 dB
Output Return Loss	Typical	15 dB	14 dB	16 dB	12 dB	12 dB
	Minimum	12 dB	12 dB	12 dB	8 dB	8 dB
10MHz Pass		10MHz injection Port to Input port		0.25dB typical insertion loss		
Isolation		70dB		Minimum between each channel		
Input RF Power		16dBm		Absolute maximum		

Preliminary Specification

Power		
PSU Power	100-240Vac 50/60Hz	Fused 2A
AC Consumption	31W Full Load	Max. consumption at steady state
	12W No Load	
LNB Power	13/18Vdc up to 0.5A Max & 22kHz tone via Input ports	
PSU	Dual redundant and Alarmed	Diode OR.
Hot-Swap PSU	Yes	

System Control		
Remote Control & monitoring	Via Serial (RS232 or RS422/485) and Ethernet (RJ45) on Rear Panel	Enables voltage selection and current monitoring of each LNB, and Alarms status
Local Control & Monitoring	Via front panel push buttons. LED status	
Alarms	Dry contact (D-type) & Ethernet (RJ45)	

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 AMSL	Above Mean Sea Level

Physical	
Dimensions	1U high x 350mm deep x 19" wide
Weight	4 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.

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