RLS2708L

Active 1:8 L-Band Splitter With 1:1 Amplifier Redundancy

GENERAL

The RLS2708L is a 1:8 L-Band splitter with front-side inserted 1:1 redundant operating line-amplifier modules built into a compact 1RU/19" rack-mount chassis. The unit features 1:8 L-Band splitting while the two redundant operating amplifier modules allow variable gain adjustment at each of the 8 outputs so to reach best RF performance within the network. The redundancy switching between these two amplifier modules is done nearly interruption free within a switchover time of less than 5ms. Besides the variable gain adjustment (MGC/AGC) and 1:8 splitting the unit also features slope-equalization, 10MHz external reference, RF power monitoring, LNB-powering as well as 1:1 redundant power-supply (hot-swappable). The RLS2508L features a flexible and compact RF-distribution solution which is perfectly suited for applications in Teleports, Satellite Earth-Stations, as well as Broadcast- and Broadband facilities wherever accurate RF power, highest stability and availability is necessary. The unit has a front-side LC-Display/keypads for user-friendly local configuration while front-side status LED´s indicating amplifier and power-supply status. Remote control and configuration can be done via its rear-side Ethernet-Interface (WEB-GUI, SNMP). The RLS2508L is available with 50Ohm SMA(f) or 75Ohm F(f) connectors (see order-information).

FEATURES

- Space saving and companct 1RU/19" design
- 1:8 L-Band splitter and 1:1 operating amplifiers in one box
- 1:1 redundant hot-standby operating amplifier-modules
- Less then 5ms switchover between ampflifier 1 & 2
- Variable gain-adjust -7...+17dB (MGC/AGC), 1dB steps
- Less then 5ms switchover between ampflifier 1 & 2
- Supports slope-equalization 0...9dB, 1dB steps
- Front-side monitoring-port (-10dB)
- Permanent RF-power monitoring (Input/Output) for both amplifier-modules
- Threshold alarm function and switchable output limiter
- 10MHz external reference signal, rear-side 50Ohm SMA(f)
- Switchable LNB-power supply (13/15/18V, 22kHz, 400mA)
- LNB current monitoring (400mA) with alarm shut-off
- 1:1 redundant power supply (hot swappable)
- Local access & configuration via front side LC-Display/keypads
- Front side status LED´s indicating amplifier- and power-supply status
- Remote configuration via Ethernet-Interface, RS232/485 (WEB-GUI/SNMPv2c)

ORDER INFORMATION

- **RLS2708L:** 1:8 L-Band splitter with 1:1 redundant Line Amplifier, 1RU/19", 50Ohm SMA(f)
- **RLS2708L-75:** 1:8 L-Band splitter with 1:1 redundant Line Amplifier, 1RU/19", 75Ohm F(f)

TECHNICAL SPECIFICATIONS

Dimensions:	1RU/19", 260mm deep
Power supply:	85...230V, 50/60Hz 1:1 redundant (hot-swappable)
Power consumption:	<10W
Frequency range:	950...2150MHz (L-Band)
Input/Output connectors:	50Ohm SMA(f) or 75Ohm F(f)
Input Return-Loss:	14dB min.
Output Return-Loss:	18 dB min.
Flatness:	±0.5dB typ., ±1dB max.
Variable Gain adjust:	-7..+17dB (Acc. ±0.25dB) 1dB steps (MGC/AGC)
Slope equalization:	0...9dB, 1dB steps
Max. RF output power:	+13dBm (@50Ohm) +11dBm (@75Ohm)
Noise figure:	5dB @ 17dB gain
IMA3 @ +10dBm:	< -36dBc
1dB Compression point:	+13dBm
Output limiter:	adjustable -40dBm...+0dBm
L-Band splitting config.:	1:8
Input Isolation:	≥ 25dB (50Ohm) ≥ 20dB (75Ohm)
Monitoring port:	-10dB (front-side)
10MHz reference:	External, rear 50Ohm SMA(f) *Internal upon request
LNB-supply:	13/15/18V, 22kHz, 400mA
Access/Control:	LC-Display/keypads, 100Mbit Ethernet-Interface, RS232/485 (WEB-GUI, SNMPv2c)
Status LED´s:	Amplifier & PSU monitoring
Operating temper.:	0...45°C
Storage temperature:	-10°C...70°C
Humidity:	90% non-condensing

969 Horsham Road • Horsham, Pennsylvania 19044 USA • Phone: 215-675-2053   Fax: 215-675-7543 • info@tonercable.com