



ALM Series

L-Band Inline Amplifier Unit

The 1:1 redundant L-Band inline amplifier systems are designed to ensure continuous operation without disruption of signal transmission. A fault condition in the on-line amplifier, or an operator generated command, will switch the standby amplifier to the on-line position and remove the on-line amplifier from the signal path.

Features

- Fault tolerant design
- Fully redundant, hot swappable power supplies
- Remote control via RS485 / Ethernet
- Automatic/manual control from both local and remote mode
- Remote status
- Off-line input/output access
- Amplifier current fault detection
- Input/output signal monitors
- Level control

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Technical Specifications

RF Specifications

Frequency	950 to 1750MHz
Small Signal Gain	40dB min
Output Power @ 1dB compression	+20dB min
Noise Figure	3dB max
Gain Flatness (Full BW)	+/-0.75dB
Gain Flatness (over 40MHz)	0.3dB max
Gain Slope	0.2dB / 10MHz max
Gain Control	30dB min (0.2dB Step size)
Gain Stability at Constant Temp	+/-0.2dB / 24hr
AM/PM conversion	0.5°/dB
Isolation	50dB min
I/P VSWR	1.28:1 min
O/P VSWR	1.25:1 min
Input Return Loss	18dB min
Channel-to-Channel gain match	2.0dB max

DC Power Requirement

Prime Power	90 to 264VAC
Interfaces	Hot swap dual AC power supply
Input Interface	50Ohms N-type Female
Output Interface	50Ohms N-type Female

Monitor & Control

Monitor	Attenuation Settings Status Alarm
Control	30dB in step of 1dB
Interface	Front Panel (LCD Display) Ethernet (SNMP & HTTP) Serial Interface RS485 / RS422
Redundancy	Built in 1+1 redundancy feature with auto & manual switching
RF Input / Output Monitor Port	-15dBc max

Environmental

Operating Temp	-10°C to +50°C
Storage Temp	-10°C to +60°C
Humidity	Up to 95%

Mechanical

Size	480L X 330W X 44Hmm (19" Rack Mount : 1RU Height)
Weight	3.5kg

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