

# AMP 2150

## L-Band Line Amplifier



AMP 2150



AMP 2150 Dual L-Band Line Amplifier



AMP 2150/4 Quad L-Band Line Amplifier



### General Description:

The **AMP 2150** series of L-band line amplifiers provide high gain as well as optional DC path continuity. These amplifiers are manufactured utilizing highly reliable surface mount technology and advanced microstrip RF circuitry and are typically deployed in satellite telecommunication networks to compensate for L-band signal paths through long coaxial cable runs. Housed in a standard 1 RU rack mount enclosure, the **AMP 2150** series amplifiers are the optimum choice for any L-band satellite communications application.

### Features & Benefits:

- High (adjustable) gain over full bandwidth
- 1 RU rack mount chassis
- Passes a 10 MHz reference signal
- LNB power available

Specifications:*	AMP 2150 (Dual Rack Mounted)	AMP 2150 (Quad Rack Mounted)
<b>RF Connectors:</b>	F-Type or BNC 75 Ω or 50 Ω	F-Type or BNC 75 Ω or 50 Ω
<b>Operating Frequency:</b>	700-2150 MHz	700-2150 MHz
<b>Frequency Response:</b>	± 1 dB	± 1 dB
<b>Input P1dB:</b>	-10 dBm	-10 dBm
<b>Noise Figure:</b>	8 dB at +20 dB Gain	8 dB at +20 dB Gain
<b>OIP3:</b>	+4.5 dBm (with 20 dB Gain and Pin = -30 dBm)	+4.5 dBm (with 20 dB Gain and Pin = -30 dBm)
<b>Input Return Loss:</b>	12 dB	12 dB
<b>Output Return Loss:</b>	12 dB	12 dB
<b>Gain Range:</b>	0 dB to +24 dB, Adjustable From the Front Panel (Factory Preset to 20 dB)	0 dB to +24 dB, Adjustable From the Front Panel (Factory Preset to 20 dB)
<b>10 MHz Insertion Loss:</b>	1.5 dB ± 0.5 dB @ +20 dB Gain	1.5 dB ± 0.5 dB @ +20 dB Gain
<b>Group Delay:</b>	0.3 ns	0.3 ns
<b>Power Requirements:</b>	+18 to +24 VDC, 190 mA	+18 to +24 VDC, 190 mA
<b>Power Consumption:</b>	4.6 W/ AMP Module	4.6 W/ AMP Module
<b>Power Connectors:</b>	Via Output Connector (AC Optional)	Via Output Connector (AC Optional)
<b>Size:</b>	1 RU: 1.75"H x 19"W x 6.5"D	1 RU: 1.75"H x 19"W x 14"D
<b>Weight:</b>	3.6 lbs Gross (Boxed), 2.6 lbs Net	9 lbs Gross (Boxed), 8 lbs Net
<b>Operating Temperature:</b>	-10° to +60° C	-10° to +60° C

\*Specifications may vary with connector type. See individual specification sheet for specific performance data. Call for custom configurations.