

# AMP 2150

## L-Band Line Amplifier



AMP 2150



AMP 2150 Dual L-Band Line Amplifier



AMP 2150/4 Quad L-Band Line Amplifier



AMP 2150 Inline

### 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 either a standard 1 RU rack mount enclosure or a rugged weatherproof extruded housing, the **AMP 2150** series amplifiers are the optimum choice for any L-band satellite communications application.

### Features & Benefits:

- High (adjustable) gain over full bandwidth
- Housed in a rugged, weatherproof extruded aluminum enclosure or in a 1 RU rack mount chassis
- Passes a 10 MHz reference signal
- LNB power available

Specifications:*	AMP 2150	AMP 2150 (Dual Rack Mounted)	AMP 2150 (Quad Rack Mounted)
<b>Operating Frequency:</b>	700-2150 MHz	700-2150 MHz	700-2150 MHz
<b>Gain Range:</b>	0 dB to +24 dB Adjustable by Internal Pot (factory preset to 20 dB)	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 $\pm$ 0.5 dB @ +20 dB Gain	1.5 dB $\pm$ 0.5 dB @ +20 dB Gain	1.5 dB $\pm$ 0.5 dB @ +20 dB Gain
<b>Input P1dB:</b>	-10 dBm	-10 dBm	-10 dBm
<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)	+4.5 dBm (with 20 dB gain and Pin = -30 dBm)
<b>Frequency Response:</b>	$\pm$ 1 dB	$\pm$ 1 dB	$\pm$ 1 dB
<b>Group Delay:</b>	0.3 ns	0.3 ns	0.3 ns
<b>Input Return Loss:</b>	12 dB	12 dB	12 dB
<b>Output Return Loss:</b>	12 dB	12 dB	12 dB
<b>RF Connectors:</b>	F-Type or BNC 75 $\Omega$ or 50 $\Omega$	F-Type or BNC 75 $\Omega$ or 50 $\Omega$	F-Type or BNC 75 $\Omega$ or 50 $\Omega$
<b>Power Requirements:</b>	+18 to +24 VDC, 190 mA	+18 to +24 VDC, 190 mA	+18 to +24 VDC, 190 mA
<b>Power Consumption:</b>	4.6 W	4.6 W/AMP Module	4.6 W/AMP Module
<b>Noise Figure:</b>	8 dB at +20 dB gain	8 dB at +20 dB gain	8 dB at +20 dB gain
<b>Power Connectors:</b>	Via Output Connector J-hooks	Via Output Connector (AC optional)	Via Output Connector (AC optional)
<b>Operating Temperature:</b>	-10° to +60° C	-10° to +60° C	-10° to +60° C
<b>Mechanical:</b>	1.25" H x 3.25" W x 5" L	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>	0.5 lbs	3.6 lbs Gross (boxed), 2.6 lbs Net	9 lbs Gross (boxed), 8 lbs Net

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

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