

# AMP 2150

## AMP21501FK000

### LINE AMPLIFIER W/ ADJUSTABLE GAIN



#### General Description:

Designed and optimized specifically for the 700-2150 MHz frequency band, the **AMP21501FK000** Line Amplifier provides variable gain to optimize the L-Band signal path through long coaxial cable runs and distribution networks. The unit is powered via the output F connector and will pass DC for LNB power. The unit also passes a 10 MHz Reference. Like all other Quintech RF products, the AMP series amplifiers are manufactured using highly reliable surface mount technology and advanced microstrip RF circuitry. Housed in a rugged, weatherproof extruded housing, the AMP21501FK000 represents the optimum choice for any 700-2150 MHz system application, indoors or out.

#### Specifications:



<b>Frequency:</b>	700-2150 MHz
<b>Gain Range:</b>	0 dB to +24 dB adjustable by internal pot ( <b>factory-preset to 20 db</b> )
<b>10 MHz Insertion Loss:</b>	1.5 dB $\pm$ 0.5 dB @ +20 dB gain
<b>Frequency Response:</b>	$\pm$ 1 dB
<b>Noise Figure:</b>	10 dB at +20 dB gain
<b>Input P1dB:</b>	-10 dBm
<b>MTBF:</b>	54 Years
<b>IIP3:</b>	+4.5 dBm (with 20 dB gain and Pin = -30 dBm)
<b>Group Delay:</b>	$\pm$ 0.1 ns
<b>Phase Noise:</b>	At analyzer minimum capability
<b>Input Return Loss:</b>	12 dB min.
<b>Output Return Loss:</b>	12 dB min.
<b>Power Requirements:</b>	+18 to +24 V $\overline{\text{---}}$ , 190 mA
<b>Power Consumption:</b>	4.6 W
<b>RF Connectors:</b>	Type F, 75 $\Omega$
<b>Power Connectors:</b>	Via Output Connector
<b>Operating Temperature:</b>	-10° to +60° C
<b>Mechanical:</b>	5.00" L x 3.25" W x 1.25" H
<b>Weight:</b>	0.5 lbs
<b>Certifications:</b>	CE

