

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:

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

