

AMP 2150
AMP21501FA000
Amplifier w/ Adjustable Gain

General Description:

Designed and optimized specifically for the 700-2150 MHz frequency band, the **AMP21501FA000** line amplifier provides variable gain to optimize the 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.

NOTE: Do not insert V_{DC} power on the input.

Specifications:

Frequency:	700-2150 MHz
Gain Range:	0 dB to +24 dB, adjustable from front panel (factory-preset to 20 dB)
10 MHz Insertion Loss:	1.5 dB \pm 0.5 dB @ +20 dB gain
Frequency Response:	\pm 1 dB @ 20 dB gain
Noise Figure:	8 dB at +20 dB gain
Input P_{1dB}:	-10 dBm
MTFBF:	54 years
OIP₃:	12 dBm at +20 dB gain
Group Delay:	\pm 0.3 ns
Input Return Loss:	12 dB
Output Return Loss:	12 dB
Power Requirements:	+18 to +24 V _{DC} , 190 mA
Power Consumption:	4.6 W
RF Connectors:	Type F, 75 Ω
Power Connector:	Via Output Connector
Operating Temperature:	-10° to +60° C
Mechanical:	1 RU (1.75" H x 19" W x 6.5" D)
Weight:	3.5 lbs. gross (boxed), 2.5 lbs. net

