

AMP 2150/4
AMP21504FA000
Quad Amplifier w/ Adjustable Gain

General Description:

Designed and optimized specifically for the 700-2150 MHz frequency band, the **AMP21504FA000** 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. The 1 RU rackmount enclosure houses four amplifiers.

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 P1dB:	-10 dBm
MTBF:	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 (each amplifier)
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 14" D)
Weight:	9.0 lbs. gross (boxed), 5.5 lbs. net

