

**AMP 2150/2**  
**AMP21502FA000**  
Dual Amplifier w/ Adjustable Gain

### General Description:

Designed and optimized specifically for the 700-2150 MHz frequency band, the **AMP21502FA000** 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 two amplifiers.

NOTE: Do not insert V<sub>DC</sub> power on the input.

### Specifications:

Frequency:	700-2150 MHz
Gain Range:	0 dB to +24 dB, adjustable from front panel ( <b>factory-preset to 20 dB</b> )
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 <sub>DC</sub> , 190 mA
Power Consumption:	4.6 W (each amplifier)
RF Connectors:	Type F, 75 $\Omega$
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:	3.6 lbs. gross (boxed), 2.6 lbs. net

