



# AmpliTech

*"Amplify Your Potential"*

## 5.8GHz, 802.11a Military Grade, Bi-Directional Amplifier

Model Number PBA-802.11a-CD-NFF is a 5.8GHz bi-directional amplifier that is designed for 802.11a radios. This product is hermetically sealed and is designed for harsh Military environments. This amplifier delivers 1 watt of power in transmit mode. The receive path provides a low noise figure of 2.0dB maximum.

### Specifications:

Operating Frequency.....	5725 to 5875MHz
Rx Small Signal Gain.....	14dB typical
Rx Noise Figure.....	2.0dB maximum
Rx Output Power for 1dB Compression .....	10dBm minimum
Tx Small Signal Gain.....	30dB typical
Tx Noise Figure.....	10dB typical
Tx Output Power for 1dB Compression.....	30dBm typical, 28dBm minimum
VSWR In/Out.....	2.0:1 maximum
Power Consumption.....	1500mA typical @ +12VDC
LED Indicators.....	Red = Rx and Green = Tx



### Environmental Ratings:

Temperature.....	-40°C to +70°C (Operating) -55°C to +125°C (Storage)
Humidity.....	MIL-STD-202F, METHOD 103B, COND. B
Vibration.....	MIL-STD-883G, METHOD 2007, COND. A
Acceleration.....	Constant Acceleration 10G In Y1 Axis Holding for 1 Min.
Temperature Cycle.....	MIL-STD-883G, METHOD 1010, COND. B

### Mechanical:

Dimensions.....	4.5" x 4.85" x 1.0"
Enclosure.....	Hermetically Sealed Aluminum Housing
Connectors.....	Type N Female
Weight.....	1lb 7oz. typical

### Included With Amplifier:

1. DC Bias-T for Powering through output coax
2. Universal power supply (110-240VAC to 12VDC)