

**AMP50-990/5BX
WIDEBAND LINEAR AMPLIFIER
50 MHz – 1000 MHz**

The new linear amplifier for UHF band is excellent design made for special applications, lab testing, digital and analog RF applications. This board requires 12 VDC / 1.5A. The minimum driving input is 1 mW; required RF input is 5-20 mW. Rated output RF power is 5 W.

| Technical Specifications | |
|--------------------------|---------------------------------|
| Frequency: | 50-1000 MHz |
| Gain: | 26 dBi |
| DC power | 9-12V |
| Power Output: | 5 W |
| Current consumption: | 1.6 A max |
| Impedance: input-output | 50 ohms |
| Max. input power | 50 mW |
| VSWR: | < 1.5:1 avg. |
| Connectors: | SMA |
| Weight: | 160 grams |
| Length: | 3.25 inch X 2.5 inch X 0.8 inch |
| Operating temperature: | -40 ° C to 85 ° C |
| RoHS compliant: | Yes |

TEST RESULTS

| FREQUENCY | POWER INPUT 1 (dBm) | POWER OUTPUT 1 | POWER INPUT 2 (dBm) | POWER OUTPUT 2 |
|------------------|--------------------------------|---------------------------|--------------------------------|---------------------------|
| 50 MHz | 0 | 1.65 W | 15.00 | 2.65W |
| 60 MHz | 0 | 1.85 W | 15.00 | 2.85 W |
| 70 MHz | 0 | 1.85 W | 15.00 | 3.20 W |
| 80 MHz | 0 | 1.90 W | 15.00 | 3.45 W |
| 90 MHz | 0 | 1.95 W | 15.00 | 3.46W |
| 100 MHz | 0 | 2.00 W | 15.00 | 3.44W |
| 145 MHz | 0 | 1.35 W | 15.00 | 4.50 W |
| 200 MHz | 0 | 1.25W | 15.00 | 4.88 W |
| 250 MHz | 0 | 1.12 W | 15.00 | 5.15W |
| 300 MHz | 0 | 1.85 W | 15.00 | 5.29 W |
| 400 MHz | 0 | 1.25 W | 15.00 | 5.0 W |
| 500 MHz | 0 | 1.85 W | 15.00 | 5.89 W |
| 600 MHz | 0 | 1.5 W | 15.00 | 5.45 W |
| 700 MHz | 0 | 1.6 W | 15.00 | 5.35 W |
| 800 MHz | 0 | 1.0 W | 15.00 | 5.25 W |
| 860 MHz | 0 | 1.9 W | 15.00 | 5.22 W |
| 900 MHz | 0 | 1.8 W | 15.00 | 4.6 W |
| 1.00 GHz | 0 | 1.6 W | 15.00 | 4.5 W |