

PA1131

850-900 MHz.

Ultra Linear Amplifier



M/A-COM



Features (Typical Values)

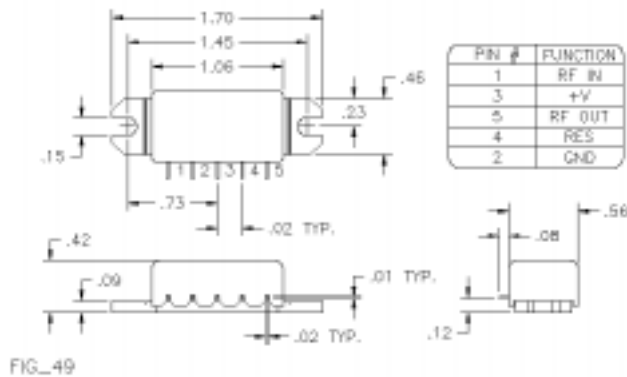
- High IP3 49.0 dBm.
- High Pout @ 1dB. comp. +33.0 dBm.
- Low Noise Figure 2.5 dB.
- Low Cost

Electrical Specifications (Referenced to 50 ohms)

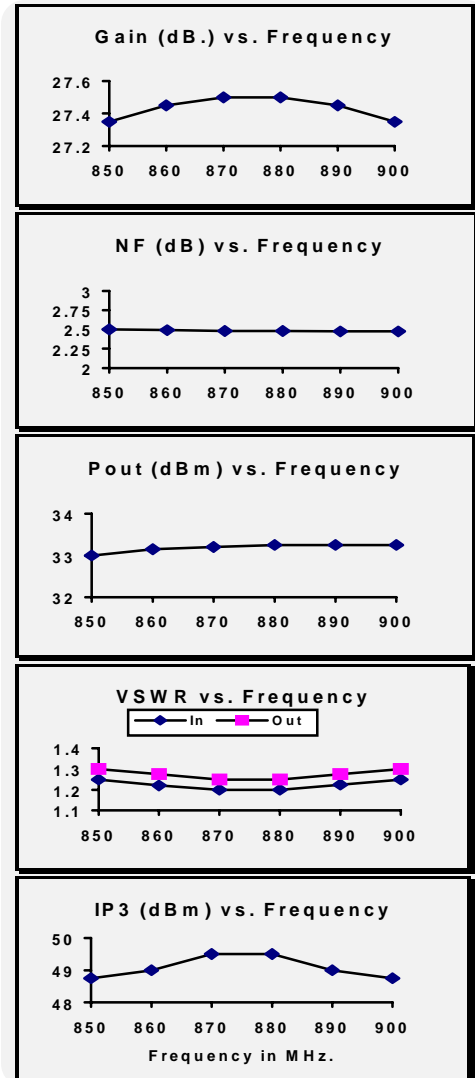
| Parameter | Typical Value | Min. Value | Max. Value | Units |
|-------------------|---------------|------------|------------|--------|
| Frequency | | 850 | 900 | MHz. |
| Gain | 27.5 | 26.5 | | dB. |
| Gain Flatness | ±0.3 | | ±0.5 | dB. |
| Reverse Isolation | 40 | | | dB. |
| Pout @ 1dB. comp. | 33.0 | 31.5 | | dBm. |
| Noise Figure | 2.5 | | 3.2 | dB. |
| IP3 | 49.0 | 48.0 | | dBm. |
| VSWR | 1.3:1 | | 1.5:1 | |
| Supply Req'd | +15/700 | | +15/800 | v./mA. |

IP3 measured with 2 tones @ +15 dBm. per tone , 1 Mhz apart
 Min and max values from 0 to 85 degrees C
Unit requires an external 12 ohm, 10 watt resistor from pin #4 to gnd.

Outline Drawings



Typical Performance Curves



Maximum Ratings

- Storage Temperature -40°C to +85°C
- DC Voltage +17 volts
- RF Input Power +15 dBm.
- Case Temperature +95°C