

PA1131

850-900 MHz.

Ultra Linear Amplifier



M/A-COM



Features (Typical Values)

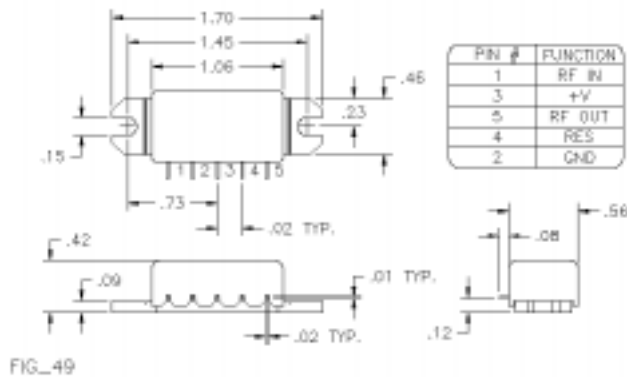
High IP3 49.0 dBm.
 High Pout @ 1dB. comp. +33.0 dBm.
 Low Noise Figure 2.5 dB.
 Low Cost

Electrical Specifications (Referenced to 50 ohms)

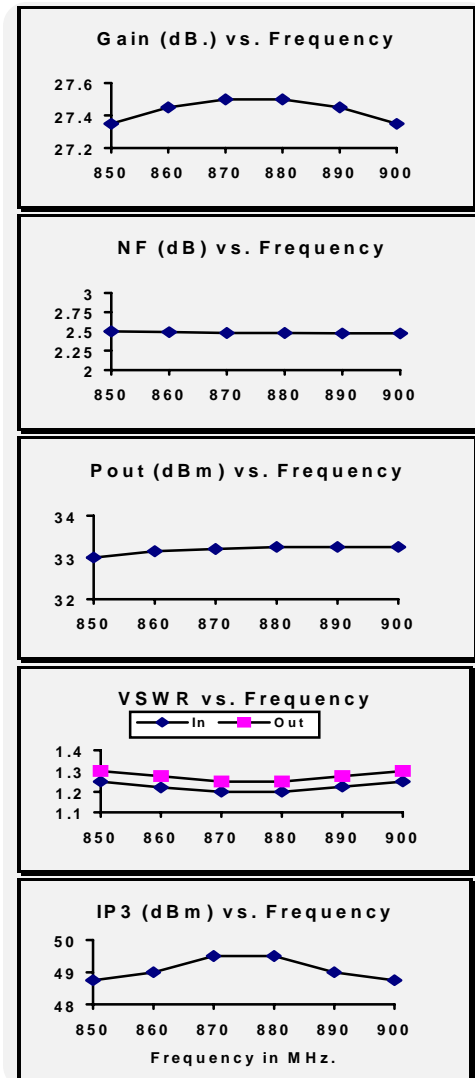
Parameter	Typical Value	Min. Value	Max. Value	Units
Frequency		850	900	MHz.
Gain	27.5	26.5		dB.
Gain Flatness	±0.3		±0.5	dB.
Reverse Isolation	40			dB.
Pout @ 1dB. comp.	33.0	31.5		dBm.
Noise Figure	2.5		3.2	dB.
IP3	49.0	48.0		dBm.
VSWR	1.3:1		1.5:1	
Supply Req'd	+15/700		+15/800	v./mA.

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