

PA1131 850-900 MHz. Ultra Linear Amplifier

tyco
Electronics

Features (Typical Values)

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

M/A-COM



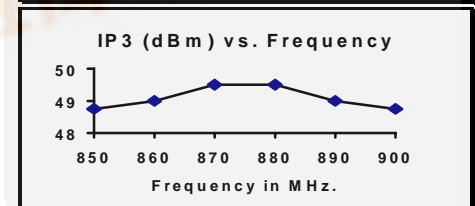
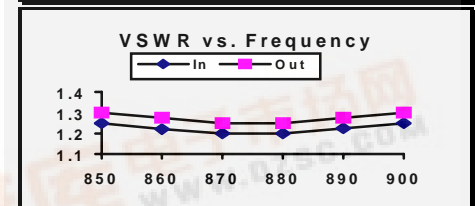
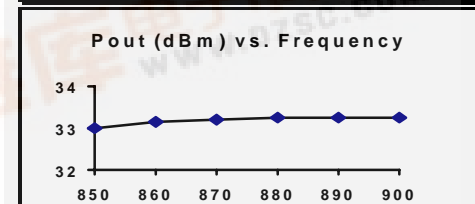
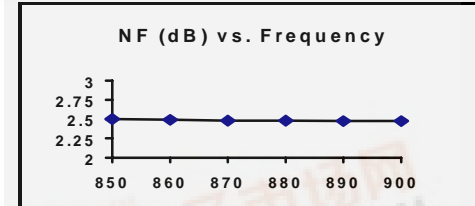
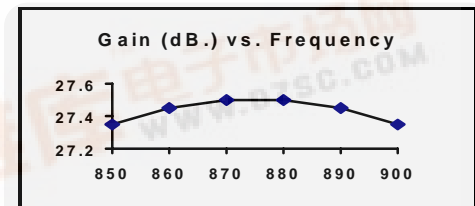
Electrical Specifications (Referenced to 50 ohms)

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.

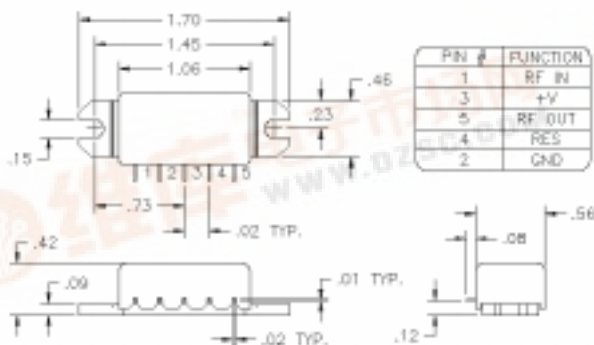
IP3 measured with 2 tones @ +15 dBm. per tone, 1 Mhz apart
Min and max values from 0 to 85 degrees C

Unit requires an external 12 ohm, 10 watt resistor from pin #4 to gnd.

Typical Performance Curves



Outline Drawings



Maximum Ratings

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