

tyco
Electronics

M/A-COM



PA1182

2300-2400 MHz.

5 Watt

28v. GaAs Ultra Linear Power

Amplifier

Features (typical values)

High IP3 +51.0 dBm.

Low NF 3.0 dB.

High Output Power +37.5 dBm.

Low Cost

Parameter	Typical Value	Min. Value	Max. Value	Units
Frequency		2300	2400	MHz.
Gain	23.0	20.0		dB.
Gain Flatness	+/- 0.3			dB.
Pout @ 1dB. comp.	37.5	36.0		dBm.
Noise Figure	3.0		4.0	dB.
ACPR (30kHz. BW)*	-47.0			dBc.
VSWR (Input/Output)	1.5:1/2:1		2:1/3:1	
IP3 (two tone)**	+51.0	+47.0		dBm.
Supply Required***	+28/1000		+28/1200	v./mA.

* ± 850 kHz from fc at power level of 30dBm. (IS-95)

** IP3 measured with 2 tones @+24dBm. per tone @ 1MHz apart

*** A 10 micro farad capacitor is required from pin3 (+V) to ground
Min and max values from 0 to 85 degrees C

Outline Drawings

See Attached Document

Maximum Ratings

Storage Temperature -40°C to +125°C

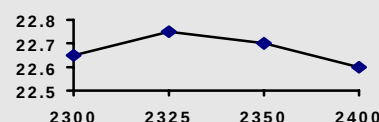
DC Voltage +30 volts

RF Input Power +15 dBm.

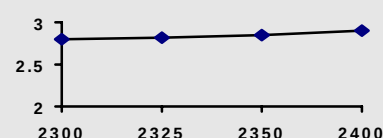
Case Temperature +90°C

Typical Performance @+ 25°C

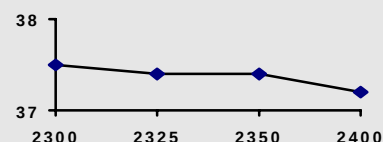
Gain (dB) vs. Frequency



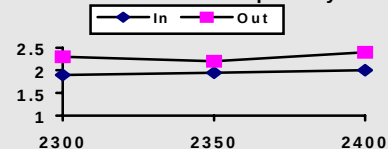
NF (dB) vs. Frequency



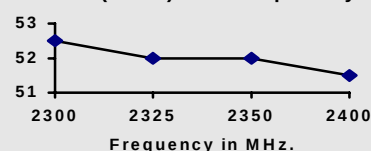
Pout (dBm) vs. Frequency



VSWR vs. Frequency



IP3 (dBm) vs. Frequency



OUTLINE DRAWING

PIN	FUNCTION
1	RF IN
2	GND
3	+V
4	GND
5	RF OUT

