

tyco

Electronics

M/A-COM

PA1224

2000-2200 MHz.

**5 Watt
Amplifier**

28v. GaAs Ultra Linear Power

Features (typical values)

High IP3 +51.0 dBm.

Low NF 3.0 dB.

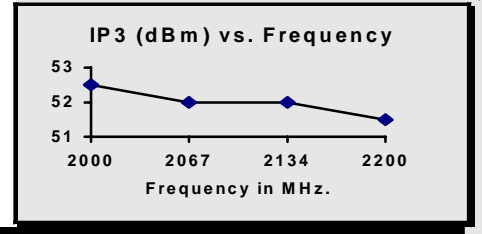
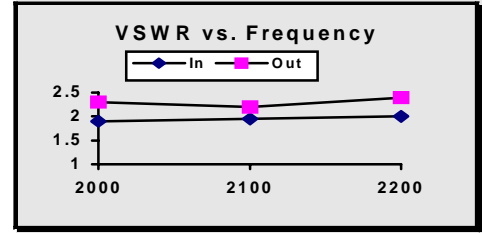
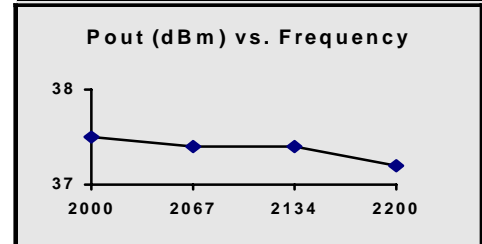
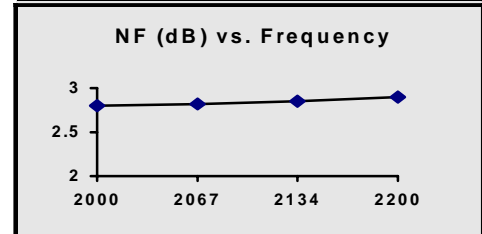
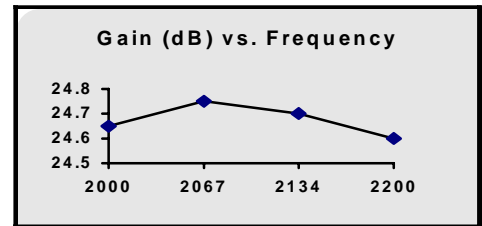
High Output Power +37.5 dBm.

Low Cost

Typical Performance @+ 25°C



Parameter	Typical Value	Min. Value	Max. Value	Units
Frequency		2000	2200	MHz.
Gain	25.0	23.0		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.



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

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

*** a 10 micro farad capacitor is required from pin 3 (+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

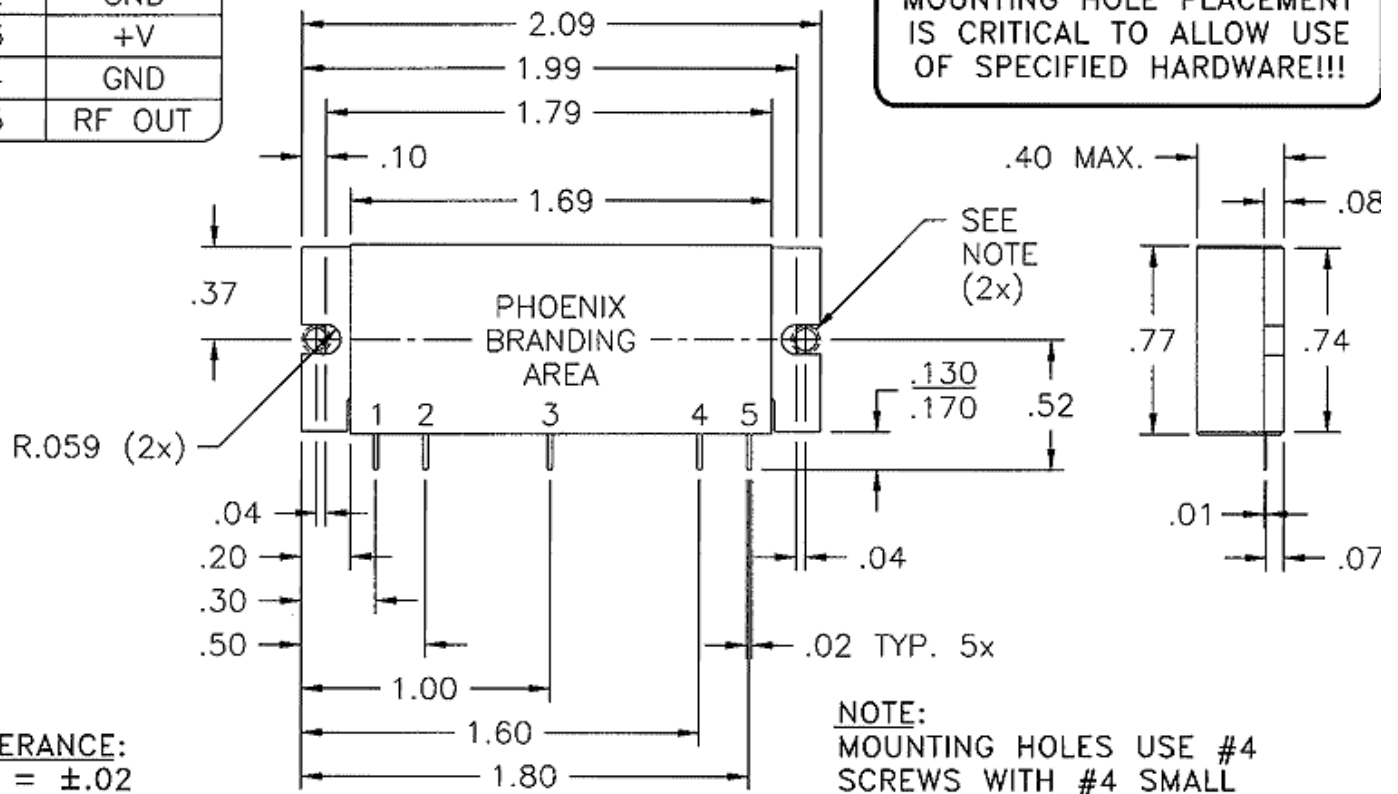
RF Input Power +15 dBm.

Case Temperature +90°C

OUTLINE DRAWING

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

IMPORTANT!
MOUNTING HOLE PLACEMENT IS CRITICAL TO ALLOW USE OF SPECIFIED HARDWARE!!!



TOLERANCE:
.XX = ±.02
.XXX = ±.010

NOTE:
MOUNTING HOLES USE #4
SCREWS WITH #4 SMALL
PATTERN FLAT & LOCK WASHERS.