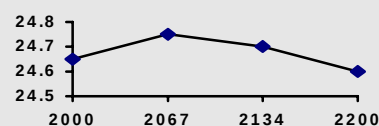
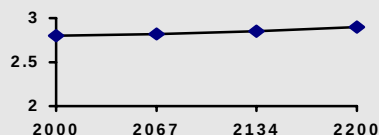




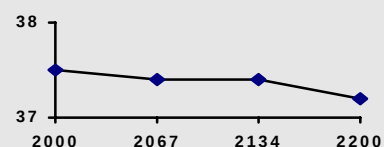
Gain (dB) vs. Frequency



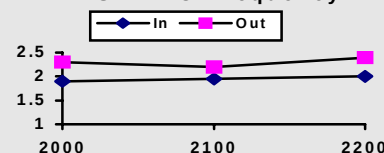
NF (dB) vs. Frequency



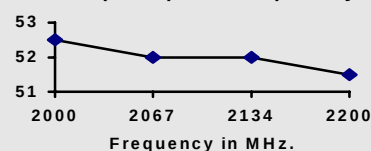
Pout (dBm) vs. Frequency



VSWR vs. Frequency



IP3 (dBm) vs. Frequency



## PA1224

2000-2200 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           |               | 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   |

