

# PA1220

800-1000 MHz.

Low Noise High Dynamic Range Linear Amplifier

PRELIMINARY

tyco

Electronics

M/A-COM

## Features (typical values)

Low Cost Ceramic Surface Mount Package

NF ..... 0.9 dB.

Pout ..... +26 dBm

IP3 ..... +40dBm

| Parameter           | Typical Value | Min. Value | Max. Value | Units  |
|---------------------|---------------|------------|------------|--------|
| Frequency           | -             | 800        | 1000       | MHz    |
| Gain                | 18.0          | 16.0       | -          | dB     |
| Gain Flatness       | +/- 0.5       | -          | +/- 0.6    | dB     |
| Reverse Isolation   | -23.0         | -          | -          | dB     |
| Pout @ 1dB. comp.   | 26            | 24         | -          | dBm    |
| Noise Figure        | 0.9           | -          | 1.4        | dB     |
| VSWR (Input/Output) | 1.3/1.5:1     | -          | 1.5/1.8:1  | Ratio  |
| IP3                 | 40            | 37         | -          | dBm    |
| Supply Required     | +12V/160      | -          | +12V/180   | v./mA. |

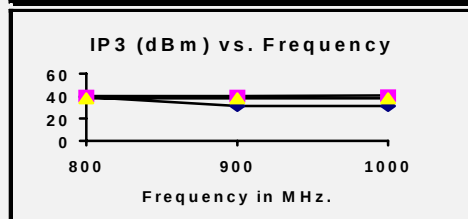
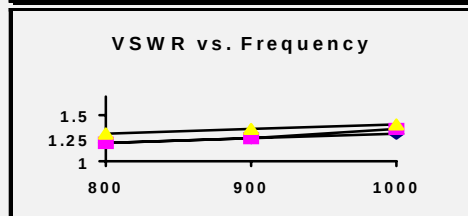
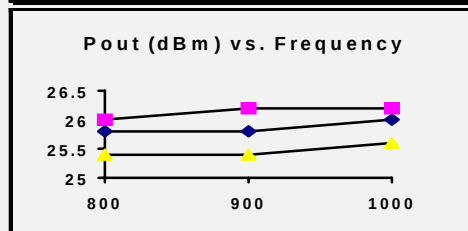
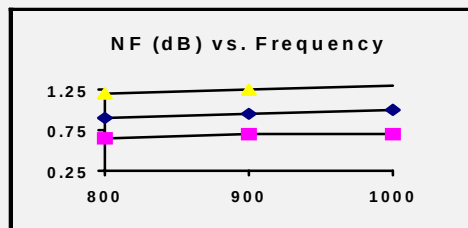
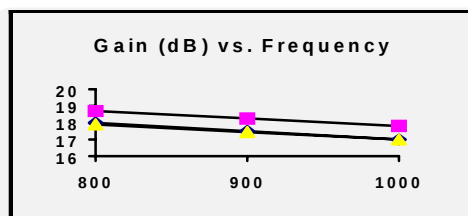
IP3 measured with 2 tones @+10 dB @ 1 Mhz apart  
Min and max values from -40 to +85 degrees C

## Outline Drawings

SEE ATTACHED DRAWING

## Typical Performance

--♦-- 25°C --■-- -40°C --▲-- +70°C



## Maximum Ratings

Storage Temperature ..... -65°C to +150°C

DC Voltage ..... +15 volts

RF Input Power ..... +23 dBm.

Heat Spreader Temperature ..... +100°C

