

# 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.

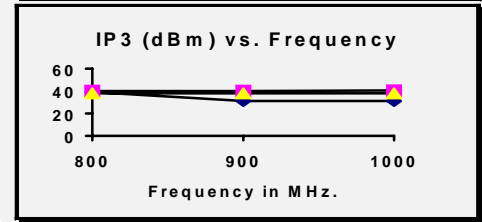
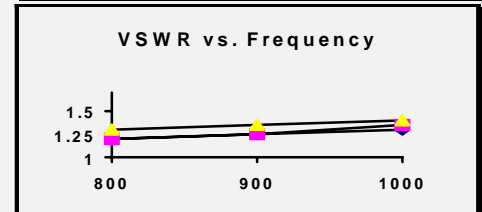
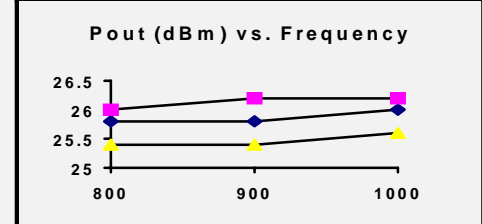
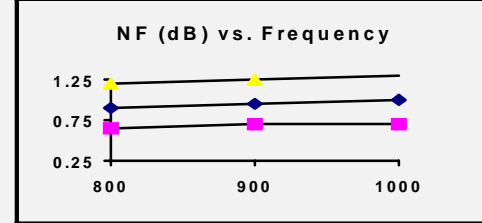
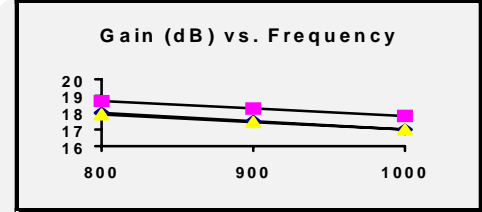
Pout ..... +26 dBm

IP3 ..... +40dBm

### Typical Performance

--◆-- 25°C --■-- -40°C --▲-- +70°C

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

### Maximum Ratings

Storage Temperature ..... -65°C to +150°C  
DC Voltage ..... +15 volts  
RF Input Power ..... +23 dBm.  
Heat Spreader Temperature ..... +100°C

