

# PA1221

# 1800-2000 MHz.

## Low Noise High Dynamic Range Linear Amplifier

### PRELIMINARY



Electronics

# M/A-COM

### Features (typical values)

Low Cost Ceramic Surface Mount Package

NF ..... 1.0 dB.

Pout ..... +26 dBm.

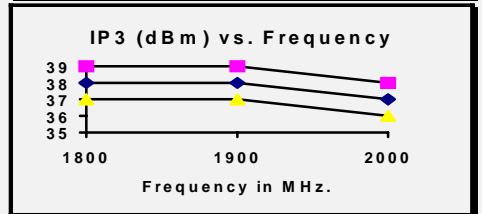
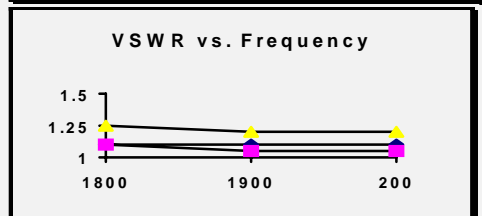
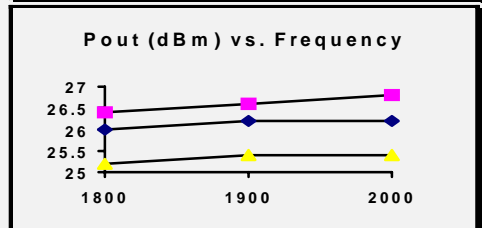
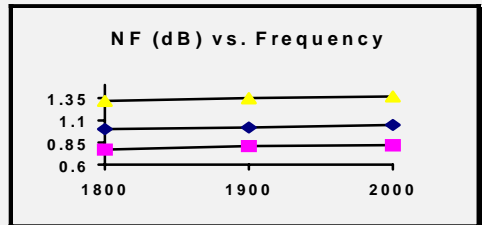
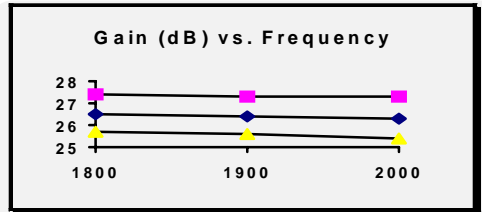
IP3 ..... +38 dBm.

Parameter	Typical Value	Min. Value	Max. Value	Units
Frequency	-	1800	2000	MHz
Gain	26.0	23.0	-	dB
Gain Flatness	+/- 0.2	-	+/- 0.5	dB
Reverse Isolation	-40.0	-	-	dB
Pout @ 1dB. comp.	+27	+26	-	dBm
Noise Figure	1.0	-	1.5	dB
VSWR	1.5:1	-	2.0:1	Ratio
IP3	38	35	-	dBm
Supply Required	+12V/160	-	+12V/190	v./mA.

IP3 measured with 2 tones @+10 dBm @ 1 MHz apart  
Min and max values from -40 to +75 degrees C

### Typical Performance

--◆-- 25°C --■-- -40°C --△-- +85°C



### Outline Drawings

SEE ATTACHED DRAWING

### Maximum Ratings

Storage Temperature ..... -65°C to +165°C  
DC Voltage ..... +15 volts  
RF Input Power.....+15 dBm.CW  
Heat Spreader Temperature ..... +100°C

