

# RF AMPLIFIER

## MODEL **FPMP1008**

# Medium Power Amplifier

Available as: *BXMP1008, SMA Connectorized Housing*  
*FPMP1008, 16 Pin Flatpack Package (FP14)*

### Features

- High Power Output: Greater Than 2 Watts
- High Third Order Intercept: +43 dBm Typical
- High IP2: +63 dBm Typical

### Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = 0 °C to +60 °C
Frequency (MHz)	50 - 250 MHz	50 - 250 MHz
Gain (dB)	17	16 Min.
Power @ 1 dB Comp. (dBm)	33.5	33 Min.
Reverse Isolation (dB)	-20	-19 Max.
VSWR In	1.8:1	2:0:1 Max.
VSWR Out	1.8:1	2:0:1 Max.
Noise Figure (dB)	5.6	6.0 Max.
Power Vdc	+15	+15
mA	600	630 Max.

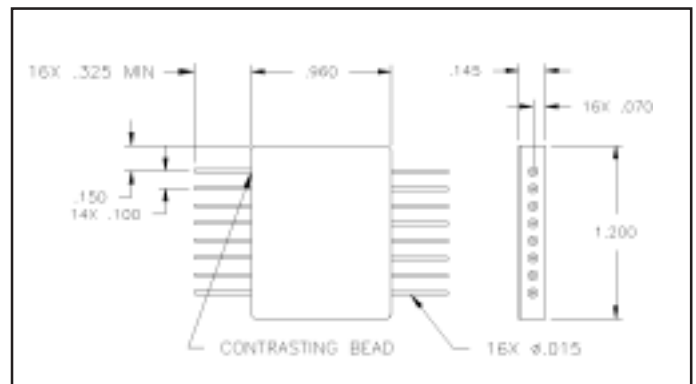
Note: Care should always be taken to effectively ground the case of each unit.

### Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point ..... +66 dBm (Typ.)  
 Second Order Two Tone Intercept Point ..... +63 dBm (Typ.)  
 Third Order Two Tone Intercept Point ..... +43 dBm (Typ.)

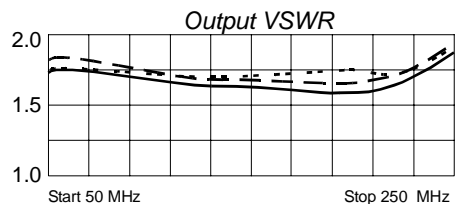
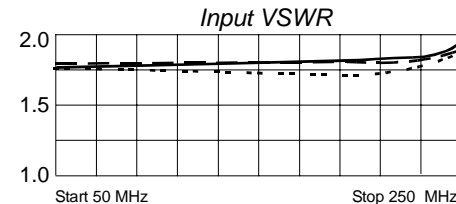
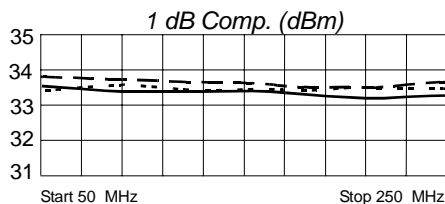
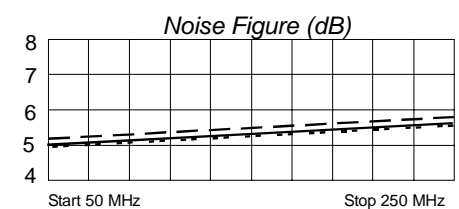
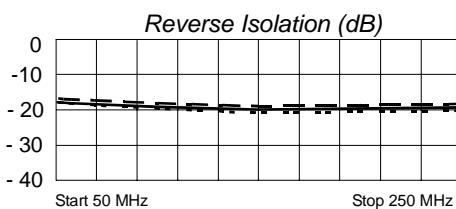
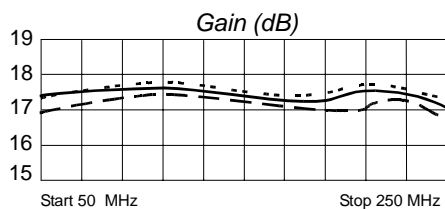
### Maximum (No Damage) Ratings

Ambient Operating Temperature ..... -55°C to + 100 °C  
 Storage Temperature ..... -62°C to + 125 °C  
 Case Temperature ..... + 150 °C  
 DC Voltage ..... + 18 Volts  
 Continuous RF Input Power ..... + 18 dBm  
 Short Term RF Input Power .... 200 Milliwatts (1 Minute Max.)  
 Maximum Peak Power ..... 0.2 Watt (3 µsec Max.)



Legend ——— + 25 °C - - - - + 60°C - - - - - 0 °C

### Typical Performance Data



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