

# RF AMPLIFIER

## MODEL WNMP1037

Available as: WNMP1037, 10 Pin 0.625" Sq Surface Mount (SG4)

### Features

- High Third Intercept: +45 dBm Typical
- High Output Power: +31 dBm Typical
- Operating Temp. -20 °C to +70 °C
- Environmental Screening Available

### Specifications

CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -20 °C to +70 °C
Frequency	1000 - 2000 MHz	1000 - 2000 MHz
Gain (dB)	19.0	17.0
Power @ 1 dB Comp. (dBm)	+31	+30 Min.
Reverse Isolation (dB)	-24	-23 Max.
VSWR In	1.5:1	2.0:1 Max.
VSWR Out	1.5:1	2.0:1 Max.
Noise Figure (dB)	5.0	6.0 Max.
Power Vdc	+15	+15
mA	450	500 Max.

### Typical Intermodulation Performance at 25 °C

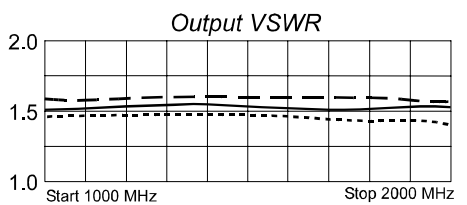
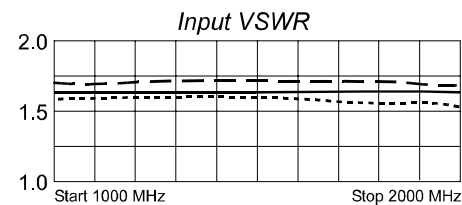
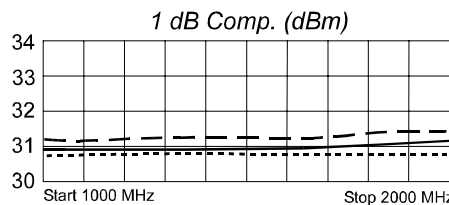
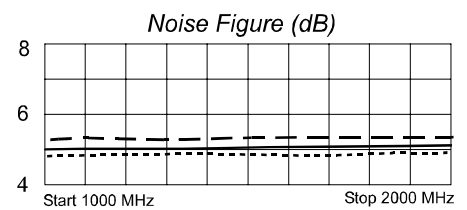
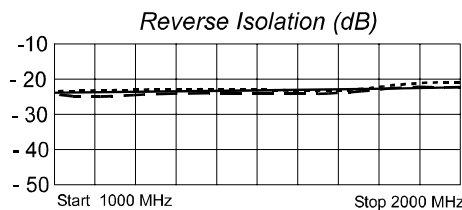
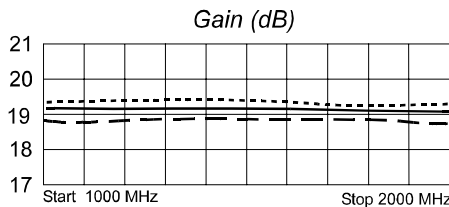
Second Order Harmonic Intercept Point ..... +60 dBm (Typ.)  
 Second Order Two Tone Intercept Point ..... +54 dBm (Typ.)  
 Third Order Two Tone Intercept Point ..... +45 dBm (Typ.)

### Absolute Maximum (No Damage) Ratings

Ambient Operating Temperature ..... -55°C to +100 °C  
 Storage Temperature ..... -62°C to +125 °C  
 Case Temperature ..... +125 °C  
 DC Voltage ..... +18 Volts  
 Continuous RF Input Power ..... +20 dBm  
 Short Term RF Input Power ..... 50 Milliwatts (1 Minute Max.)  
 Maximum Peak Power ..... 0.5 Watt (3 µsec Max.)

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

### Typical Performance Data



Legend ——— +25 °C    - - - +70 °C    ····· -20 °C



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