

# RF AMPLIFIER

## MODEL **BXMP1018**

# Medium Power Amplifier

Available as: WNMP1018, 10 Pin .625" Sq. Surface Mount (SG4)  
 BXMP1018, SMA Connectorized Housing  
 TRMP1018, 12 Pin TO-8B (T9)

### Features

- High IP3: +44 dBm Typical
- High IP2: +70 dBm Typical
- High Output Power: 28 dBm Typical

### Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = 0 °C to +50 °C
Frequency	1 - 100 MHz	1 - 100 MHz
Gain (dB)	16	15 Min..
Power @ 1 dB Comp. (dBm)	+28	+26 Min.
Reverse Isolation (dB)	-22	-20 Max.
VSWR In	1.6:1	2.0:1 Max.
Out	1.6:1	2.0:1 Max.
Noise figure (dB)	4.0	5.0 Max.
Power Vdc	+15	+15
mA	250	280 Max.

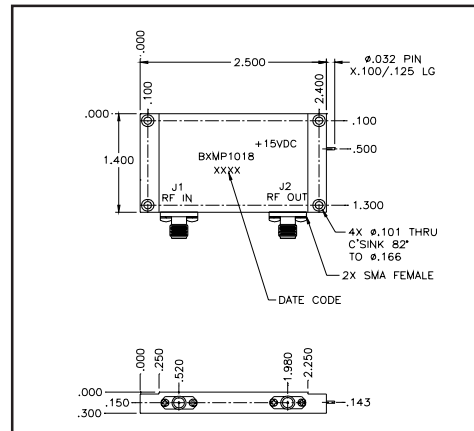
Note: Care should always be taken to effectively ground the case of each unit.

### Typical Intermodulation Performance at 25 °C

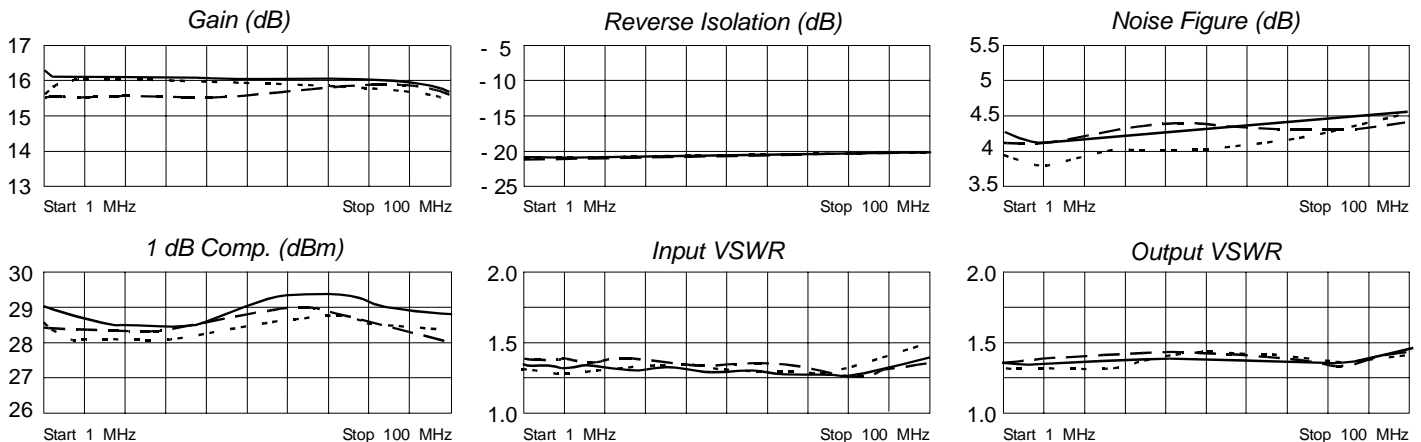
Second Order Harmonic Intercept Point ..... +75 dBm (Typ.)  
 Second Order Two Tone Intercept Point ..... +70 dBm (Typ.)  
 Third Order Two Tone Intercept Point ..... +44 dBm (Typ.)

### 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 ..... +16 dBm  
 Short Term RF Input Power .... 100 Milliwatts (1 Minute Max.)  
 Maximum Peak Power ..... 500 Milliwatts (3 µsec Max.)



### Typical Performance Data



Legend ——— + 25 °C - - - - + 50 °C ······ 0 °C



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