

RF AMPLIFIER

MODEL **BXMP1018**

Medium Power Amplifier

Available as: WNMP1018, 10 Pin .625" Sq. Surface Mount (SG4)
 BXMP1018, SMA Connectorized Housing (H106)
 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.

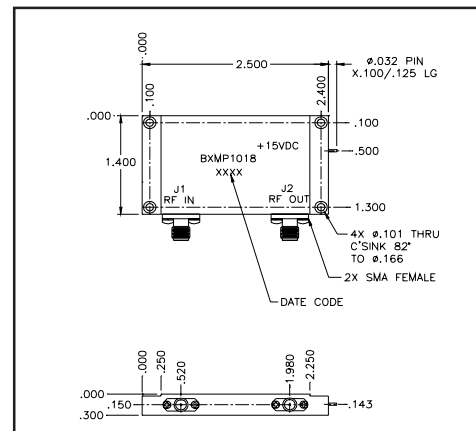
Note: Care should always be taken to effectively ground the case of each unit.

Typical Intermodulation Performance at 25 °C

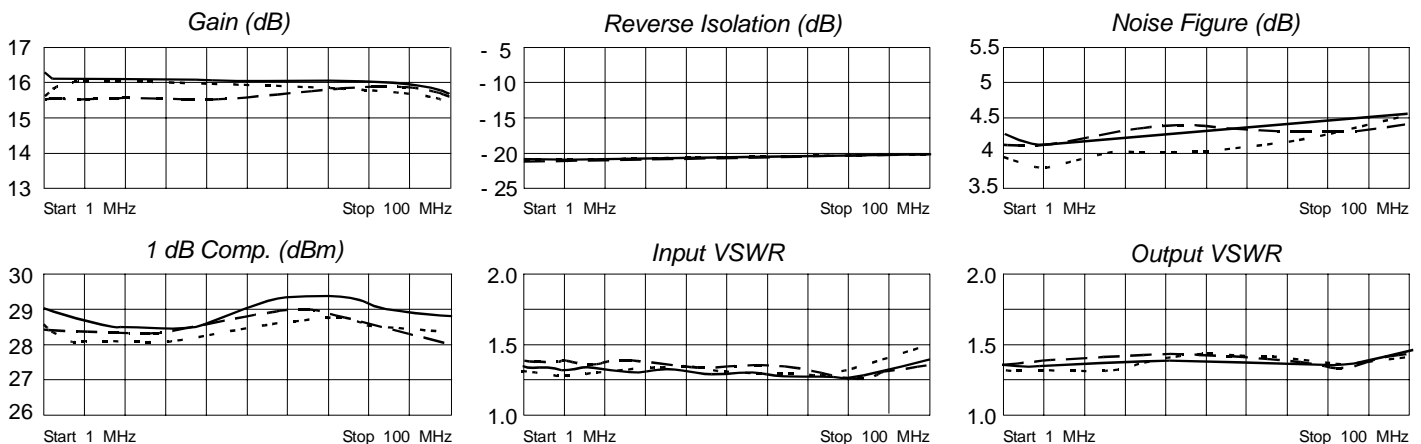
Second Order Harmonic Intercept Point +75 dBm (Typ.)
 Second Order Two Tone Intercept Point +70 dBm (Typ.)
 Third Order Two Tone Intercept Point +44 dBm (Typ.)

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 +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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