

RF AMPLIFIER

Medium Power Amplifier

MODEL *BXMP1010*

Available as: WNMP1010: 10 Pin .625" Sq. Surface Mount (SG4)
 BXMP1010: SMA Connectorized Housing (H3)

Features

- High IP2: +69 dBm Typical
- Gain: +18 dB Typical
- Operating Temp. 0 °C to +65 °C
- Units are Unconditionally Stable

Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +74 dBm (Typ.)
 Second Order Two Tone Intercept Point +69 dBm (Typ.)
 Third Order Two Tone Intercept Point +35 dBm (Typ.)

Specifications

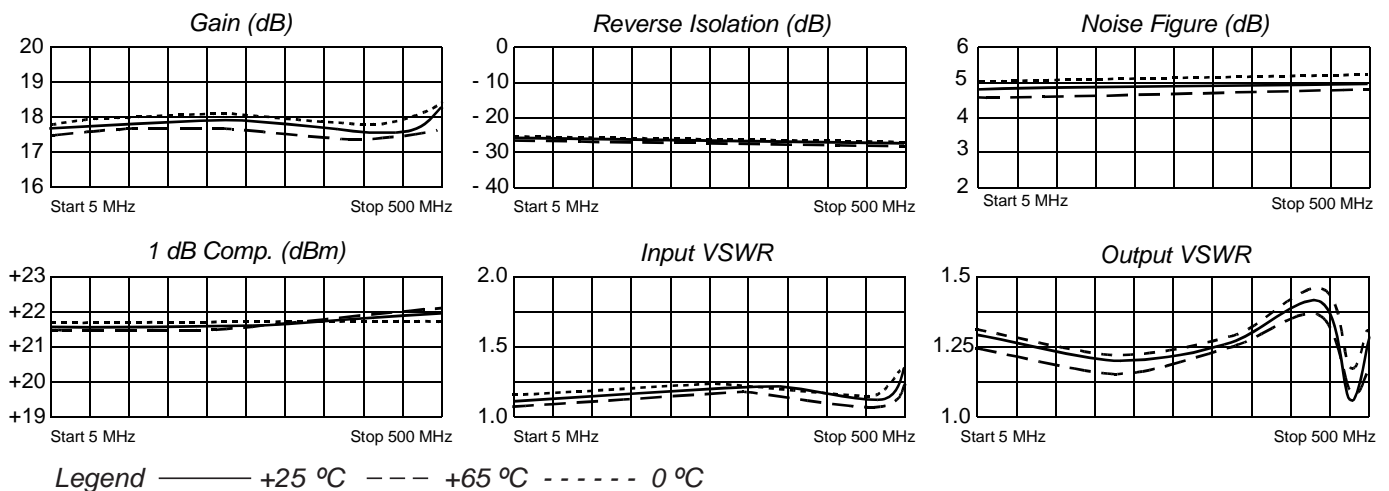
CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = 0 °C to +65 °C
Frequency	5 - 500 MHz	5 - 500 MHz
Gain (dB)	18	16.5 Min.
Power @ 1 dB Comp. (dBm)	+21.5	+19.0 Min.
Reverse Isolation (dB)	-27	-25 Max.
VSWR In	<1.3:1	2.0:1 Max.
Out	<1.3:1	2.0:1 Max.
Noise Figure (dB)	4.5	6.0 Max.
Power Vdc	+15	+15
mA	160	175 Max.

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 +13 dBm
 Short Term RF Input Power 50 Milliwatts (1 Minute Max.)
 Maximum Peak Power 0.5 Watt (3 µsec Max.)
 Revision 1/9/2013

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

Typical Performance Data



Linear S-Parameters

Freq. MHz	---S11---		---S21---		---S12---		---S22---	
	Mag	Deg	Mag	Deg	Mag	Deg	Mag	Deg
5	.09	147	8.05	-168	.0423	13	.13	128
50	.12	159	8.21	155	.0432	-13	.08	77
100	.11	131	8.02	128	.0433	-29	.10	45
200	.06	80	7.78	77	.0418	-59	.15	-4
300	.01	75	7.69	25	.0383	-91	.16	-54
400	.04	95	7.91	-29	.0343	-122	.13	-118
500	.13	-11	7.83	-93	.0308	-150	.13	138



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