

RF AMPLIFIER

Available as: WNMP1025, 8 Pin .500" x .500" Sq. Gullwing (SG8)
 BXMP1025, SMA Connectorized Housing

MODEL BXMP1025

Features

- Medium Gain: 14.0 dB Typical
- High Power: +32 dBm Typical
- Operating Temp. - 55 °C to +85 °C
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	500 - 1000 MHz	500 - 1000 MHz
Gain (dB)	14.0	12.5 Min.
Power @ 1 dB Comp. (dBm)	+32	+31.5 Min.
Reverse Isolation (dB)	-23	-22 Max.
VSWR In	1.5:1	1.6:1 Max.
Out	1.7:1	1.9:1 Max.
Noise Figure (dB)	5.0	7.5 Max.
Power Vdc	+15	+15
mA	490	500 Max.

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

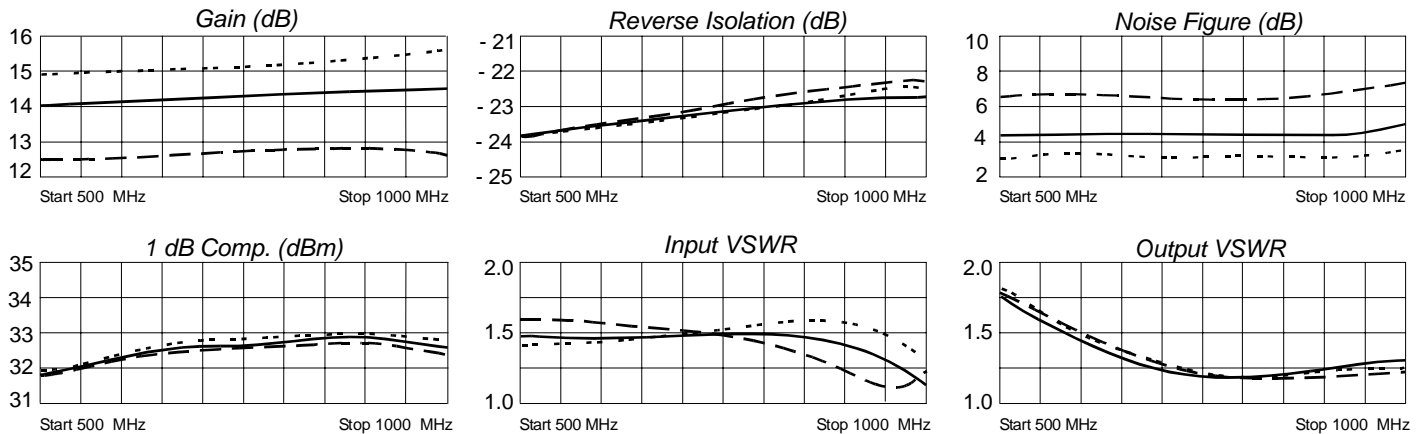
Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point+60 dBm (Typ.)
 Second Order Two Tone Intercept Point+65 dBm (Typ.)
 Third Order Two Tone Intercept Point+45 dBm (Typ.)

Maximum Ratings

Ambient Operating Temperature -40°C to + 100 °C
 Storage Temperature -50°C to + 125 °C
 Case Temperature + 125 °C
 DC Voltage +16 Volts
 Continuous RF Input Power +20 dBm
 Short Term RF Input Power ... 200 Milliwatts (1 Minute Max.)
 Maximum Peak Power 0.4 Watt (3 µsec Max.)

Typical Performance Data



Legend ——— + 25 °C - - - - + 85 °C ······ -55 °C

Linear S-Parameters

Freq. MHz	---S11---		---S21---		---S12---		---S22---	
	Mag	Deg	Mag	Deg	Mag	Deg	Mag	Deg
500	.19	122	5.06	30	.06	-100	.27	56
550	.19	118	5.07	14	.06	-112	.23	48
600	.19	116	5.09	-2	.07	-124	.17	44
650	.19	116	5.12	-19	.07	-137	.14	45
700	.20	113	5.15	-36	.07	-150	.10	55
750	.21	106	5.16	-54	.07	-164	.09	69
800	.20	93	5.19	-72	.07	-178	.08	79
850	.19	79	5.21	-91	.07	167	.10	84
900	.18	63	5.24	-110	.07	151	.11	83
950	.13	44	5.28	-131	.07	135	.13	81
1000	.05	-8	5.30	-154	.07	116	.13	89



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