

RF AMPLIFIER

Available as: WNMP1042, 10 Pin 0.625" Sq. Gullwing SurfaceMount (SG4)
BXMP1042, SMA Connectorized Housing (H-7)

MODEL WNMP1042

Features

- High Output Power: +29 dBm Typical
- High Gain: 22 dB Typical
- No External Circuity Needed
- Slight Modifications Offered at No Additional Charge

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -10 °C to +50 °C
Frequency (MHz)	30 - 2000 MHz	30 - 2000 MHz
Gain (dB)	22	20 Min.
Power @ 1 dB Comp. (dBm)	+29	+28 Min.
Reverse Isolation (dB)	-40	-35 Max.
VSWR In	1.5:1	2.0:1 Max.
Out	1.8:1	2.0:1 Max.
Noise Figure (dB)	4.0	6.0 Max.
Power Vdc	+15	+15
mA	490	500 Max.

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

Revision September 4, 2024

Typical Intermodulation Performance at 25 °C

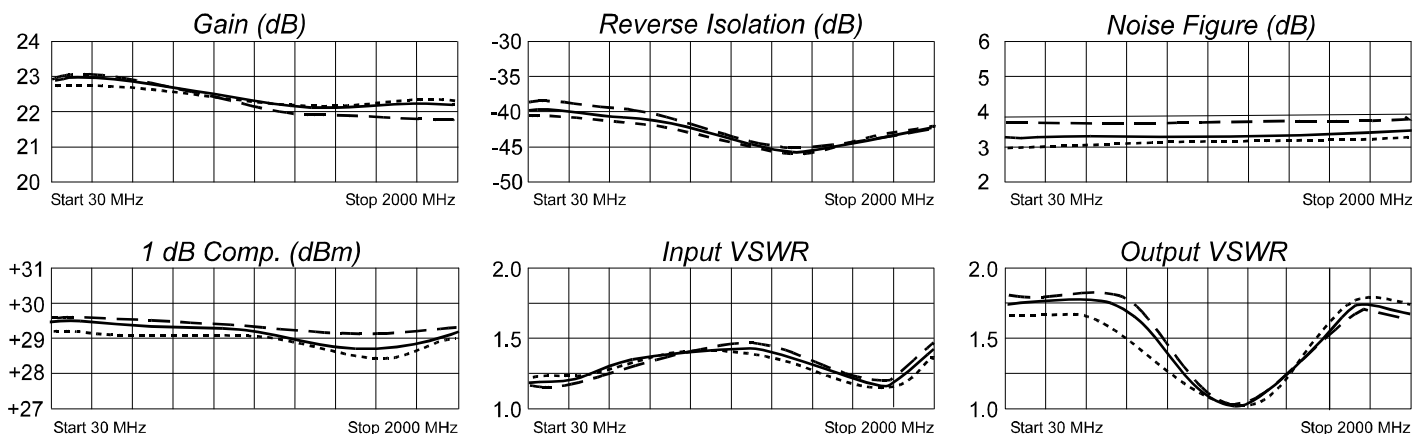
Second Order Harmonic Intercept Point +55 dBm (Typ.)
Second Order Two Tone Intercept Point +50 dBm (Typ.)
Third Order Two Tone Intercept Point +40 dBm (Typ.)

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 (CW) +30 dBm
Maximum Peak Power..... 2 Watts (3 µsec Max.)

ECN September 4, 2024: Supply current increased from 350 mA to 500 mA.

Typical Performance Data



Legend ——— +25 °C - - - +50 °C -10 °C

