

RF AMPLIFIER

Available as: QBH-8990, Hybrid SM (E52-19422)

MODEL QBH-8990

Features

- High Power: 23 dBm Typical
- Low Noise Figure: 2.7 dB Typical
- Operating Temp. -40 °C to +70 °C
- Environmental Screening Available

Specifications

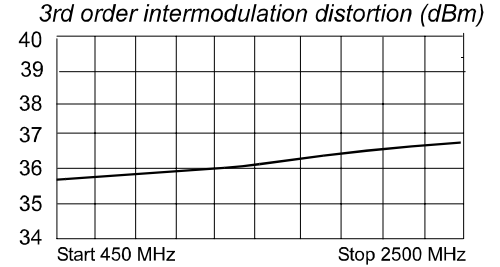
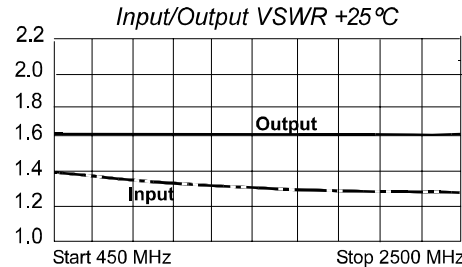
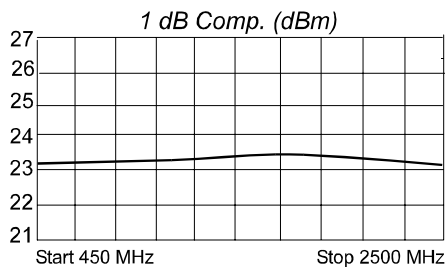
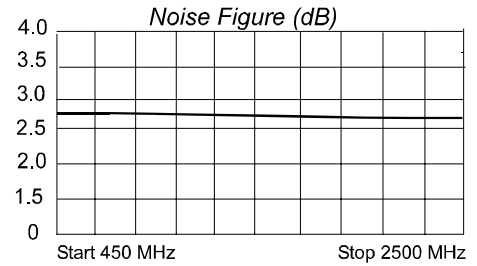
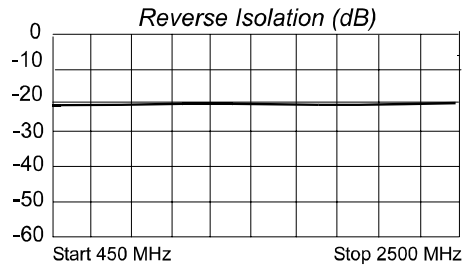
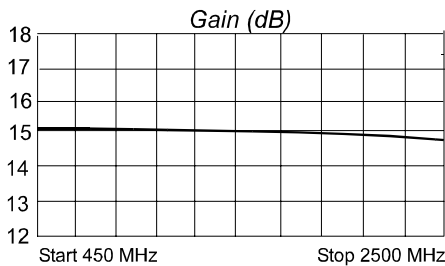
CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -40 °C to +70 °C
Frequency	450 - 2500 MHz	450 - 2500 MHz
Gain (dB)	15 Min.	—
Gain vs. Temperature	—	+1.5 Max.
Gain Flatness	0.3	0.6 Max.
Reverse Isolation (dB)	-21	-19 Min.
VSWR In	1.5:1	2.0:1 Max.
VSWR Out	1.6:1	2.0:1 Max.
1 dB Compression (dBm)	+23	+21 Min.
Output Intercept Point 3rd Order	+36	+33 Min.
2nd Order	—	—
Noise Figure (dB)	2.7	4.0 Max.
Power Vdc	+15	+15
mA	150	170 Max.

Absolute Maximum (No Damage) Ratings

Ambient Operating Temperature -55 °C to +125 °C
 Storage Temperature -65 °C to +150 °C
 Case Temperature +125 °C
 DC Voltage +20 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.)

Note: Specifications are guaranteed when tested in a 50 Ohm system.
 Specifications indicated as typical are not guaranteed.

Typical Performance Data



Legend ——— +25 °C



Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, Florida 32905 · PH (888) 553-7531 · Fax (888) 553-7532

Rev. 9/8/10

www.SpectrumMicrowave.com Spectrum Microwave · 2707 Black Lake Place · Philadelphia, Pennsylvania 19154 · PH (215) 464-4000 · Fax (215) 464-4001