

RF AMPLIFIER

Available as: QBH-8980, 0.5" x 0.5" Surface Mount

MODEL QBH-8980

Features

- Low Noise Figure: 1.5 dB Typical
- Low +5 Volt Supply
- Operating Temp. - 40 °C to +85 °C
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -40 °C to +85 °C
Frequency	30 - 110 MHz	30 - 110 MHz
Gain (dB)	8.2	7.0 Min.
Gain Flatness dB (P-P)	0.20	0.75 Max.
Reverse Isolation (dB)	-11	-9 Max.
VSWR In	1.3:1	2.0:1 Max.
Out	1.3:1	2.0:1 Max.
1 dB Compression (dBm)	+15.0	+13.5 Min.
Output Intercept Point 3rd Order	+33	+26 Min.
Noise Figure (dB)	1.5	3.0 Max.
Power Vdc	+5	+5
mA	25	35 Max.

Absolute Maximum Ratings

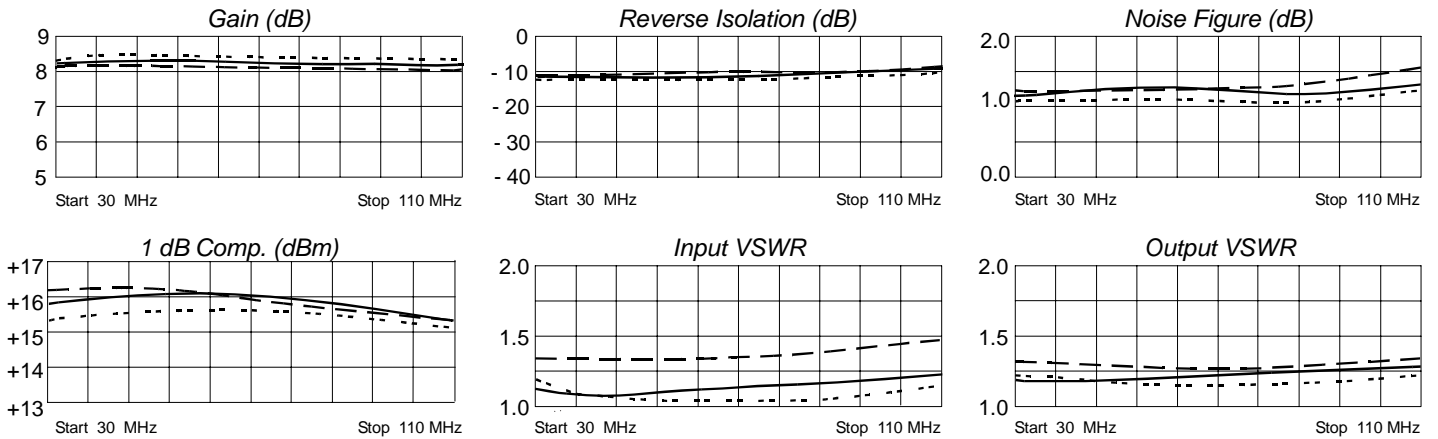
Ambient Operating Temperature -40 °C to +100 °C
 Storage Temperature -65 °C to + 125 °C
 Operating Case Temperature + 125 °C
 DC Voltage + 8 Volts
 Continuous RF Input Power + 13 dBm
 Short Term RF Input Power 50 Milliwatts (1 Minute Max.)
 Maximum Peak Power 0.5 Watt (3 µsec Max.)

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

Note:

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

Typical Performance Data



Legend ——— + 25 °C - - - - + 85 °C ······ -40 °C



Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, Florida 32905 · PH (888) 553-7531 · Fax (888) 553-7532 11/09/06

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