

RF AMPLIFIER

MODEL QBH-261

Available as: QBH-261, F-Pack (E52-5006)

Features

- High Gain: 13.3 dB Typical
- High Power: +27 dBm Typical
- Operating Temp. - 55 °C to +85 °C
- Environmental Screening Available

Specifications

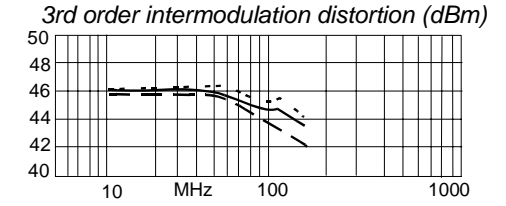
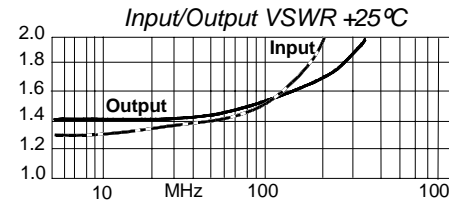
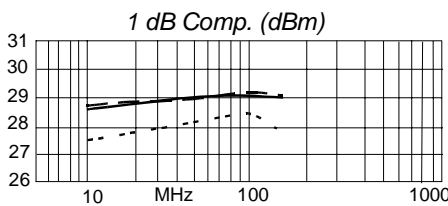
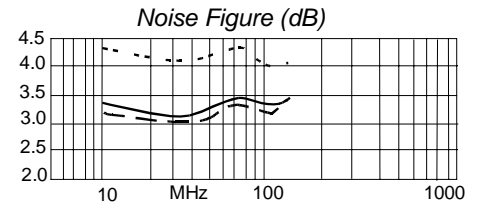
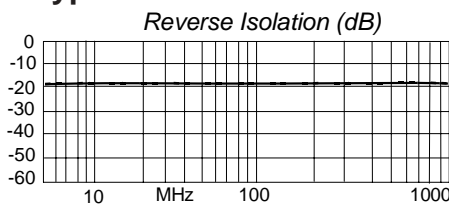
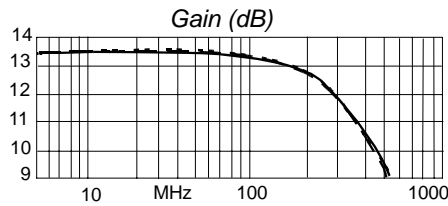
CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	10 - 150 MHz	10 - 150 MHz
Gain (dB)	13.3 ± 0.5	—
Gain vs. Temperature	—	+0.3/-0.5 Max.
Gain Flatness	1.0	1.0 Max.
Reverse Isolation (dB)	-16	-16 Min.
VSWR In	2.0:1	2.0:1 Max.
VSWR Out	2.0:1	2.0:1 Max.
1 dB Compression (dBm)	+27	+25 Min.
Output Intercept point 3rd Order	+43	+42 Min.
2nd Order	+55	+53 Min.
Noise Figure (dB)	4.2	4.8 Max.
Power Vdc	+15	+15
mA	175	180 Max.

Maximum Ratings

Ambient Operating Temperature -55°C to + 125 °C
 Storage Temperature -65°C to + 150 °C
 Case Temperature + 125 °C
 DC Voltage + 16 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 - - - - + 85 °C - - - - - - - - - -55 °C

Linear S-Parameters Data

FREQ. MHz	-S11- dB	-S11- Ang	-S21- dB	-S21- Ang	-S12- dB	-S12- Ang	-S22- dB	-S22- Ang
10	-18.3	-12.7	13.5	179.0	-17.8	176.9	-15.2	3.0
40	-16.6	-39.8	13.5	164.7	-17.7	163.2	-15.0	-25.4
50	-16.2	-48.5	13.5	160.5	-17.7	158.9	-14.8	-32.8
60	-15.7	-57.2	13.5	156.6	-17.7	154.6	-14.7	-39.7
70	-15.2	-64.6	13.4	152.5	-17.7	150.3	-14.5	-46.6
80	-14.7	-71.6	13.4	148.6	-17.7	146.2	-14.3	-53.1
90	-14.2	-78.9	13.4	144.6	-17.7	142.0	-14.1	-59.4
100	-13.7	-85.1	13.3	140.6	-17.7	137.7	-13.9	-65.7
150	-11.6	-113.2	13.1	121.2	-17.7	117.4	-12.8	-94.8



Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, Florida 32905 · PH (888) 553-7531 · Fax (888) 553-7532 03/11/05

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