

RF AMPLIFIER

Available as: QBH-8756, Hybrid SM (E52-19422)

MODEL QBH-8756

Features

- High Gain: 22.5 dB Typical
- High Power: +20 dBm Typical
- Environmental Screening Available

Specifications

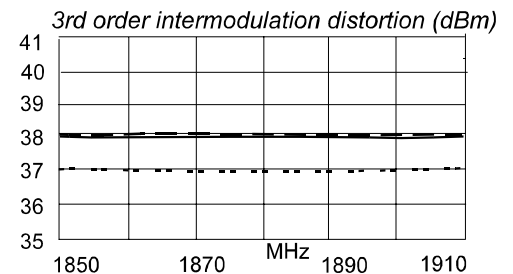
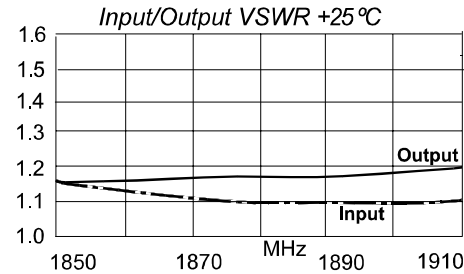
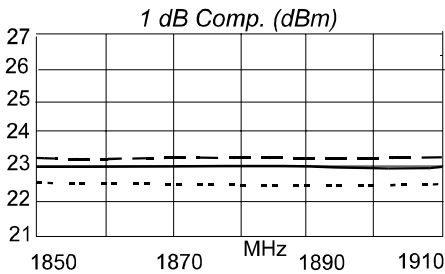
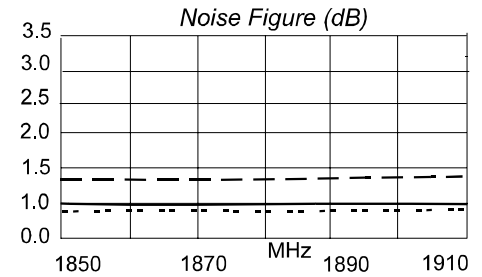
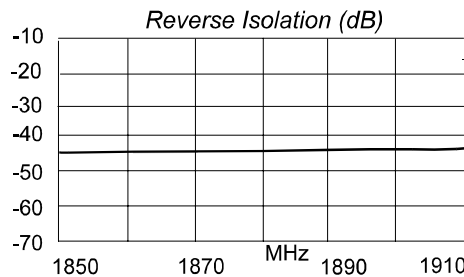
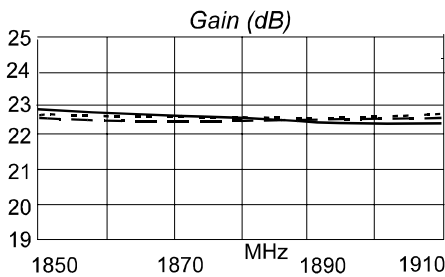
CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX
Frequency	1850 - 1910 MHz	—
Gain (dB)	22.5 ±0.5	—
Gain vs. Temperature	—	—
Gain Flatness	0.7	—
Reverse Isolation (dB)	-40	—
VSWR In	1.5:1	—
Out	1.5:1	—
1 dB Compression (dBm)	+20	—
Output Intercept Point 3rd Order	+35	—
2nd Order	—	—
Noise Figure (dB)	1.0	—
Power Vdc	+15	—
mA	210	—

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 +15.5 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 - - - - +70 °C - - - - -40 °C

Linear S-Parameters Data

FREQ. MHz	-- S11 -- dB Ang	-- S21 -- dB Ang	-- S12 -- dB Ang	-- S22 -- dB Ang
1850	-24.0 107.5	22.8 -66.5	-44.2 -165.5	-23.9 115.3
1860	-25.6 114.7	22.7 -68.9	-43.9 -175.4	-23.4 114.0
1870	-27.7 119.8	22.7 -71.5	-44.4 -172.5	-22.9 112.5
1880	-29.9 124.0	22.6 -74.0	-44.1 -174.4	-22.5 110.8
1890	-30.4 130.0	22.5 -76.6	-44.1 -175.1	-22.1 107.9
1900	-28.0 137.0	22.4 -79.0	-43.9 -175.8	-21.8 106.5
1910	-26.6 143.4	22.3 -81.6	-44.2 -174.5	-21.5 104.8



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

Rev.
6/16/10

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