

RF AMPLIFIER

MODEL QBH-5404

Available as: QBH-5404, 0.450" Sq. Surface Mount (E52-18563)
QBH-4033, TO-8 Package

Features

- High Gain: 15.5 dB Typical
- High Power: +22 dBm Typical
- Environmental Screening Available

Specifications

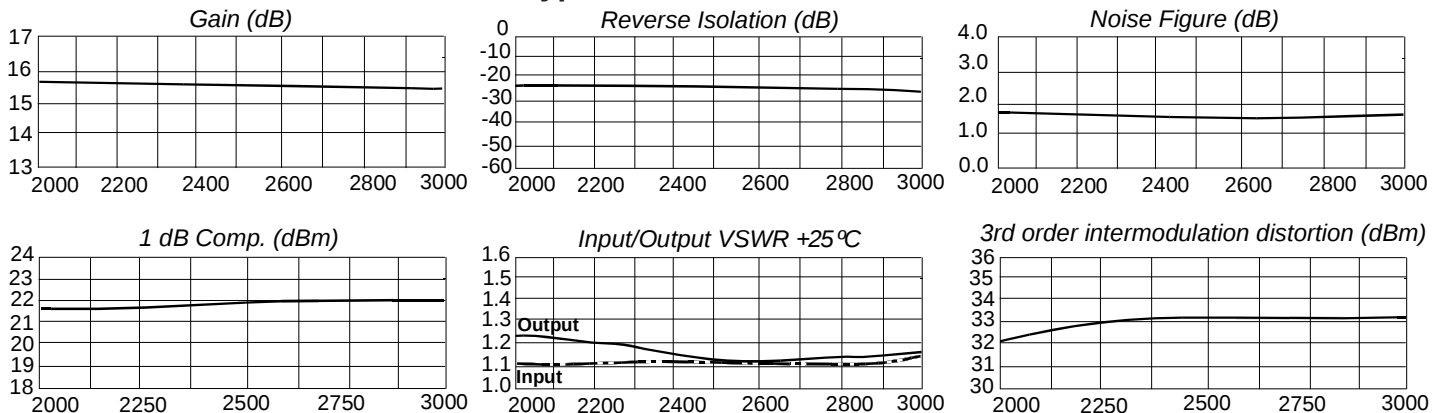
CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN	MAX
Frequency	—	2000 MHz	3000 MHz
Gain (dB)	15.5	14.0	16.0
Gain vs. Temperature	—	—	—
Gain Flatness	+/-0.25	—	+/-0.5
Reverse Isolation (dB)	—	—	—
VSWR In	1.3:1	—	1.5:1
Out	1.3:1	—	1.5:1
1 dB Compression (dBm)	+22.0	+20.0	—
Output Intercept point	—	—	—
3rd Order	+33	+30.0	—
2nd Order	—	—	—
Noise Figure (dB)	1.5	—	2.0
Power Vdc	+8.0	—	—
mA	85	—	100

Maximum Ratings

Ambient Operating Temperature -40 °C to +85 °C
Storage Temperature -65 °C to +125 °C
Case Temperature +125 °C
DC Voltage +10 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.)

Revision 3/15/2013

Typical Performance Data



Linear S-Parameters Data

FREQ. MHz	-- S11 -- dB Ang	-- S21 -- dB Ang	-- S12 -- dB Ang	-- S22 -- dB Ang
2000	-25.6 149.2	15.7 -68.8	-24.5 139.6	-19.5 -73.9
2200	-25.4 93.0	15.6 -105.1	-24.9 108.9	-20.9 -119.5
2300	-25.0 69.7	15.6 -123.0	-25.0 93.8	-22.0 -143.0
2450	-24.9 49.4	15.6 -149.4	-25.3 71.7	-23.5 176.0
2550	-25.2 39.7	15.5 -166.8	-25.4 57.0	-24.3 146.4
2650	-25.6 32.3	15.5 175.9	-25.6 42.7	-24.6 115.6
2800	-26.9 27.0	15.5 149.9	-25.8 21.1	-23.9 72.4
2900	-26.3 24.4	15.4 132.5	-26.0 6.8	-22.9 46.8
3000	-23.8 20.8	15.4 115.0	-26.2 -7.7	-22.0 24.1

