

RF AMPLIFIER

MODEL QBH-5404

Available as: QBH-5404, Hybrid SM (E52-18563)

Features

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

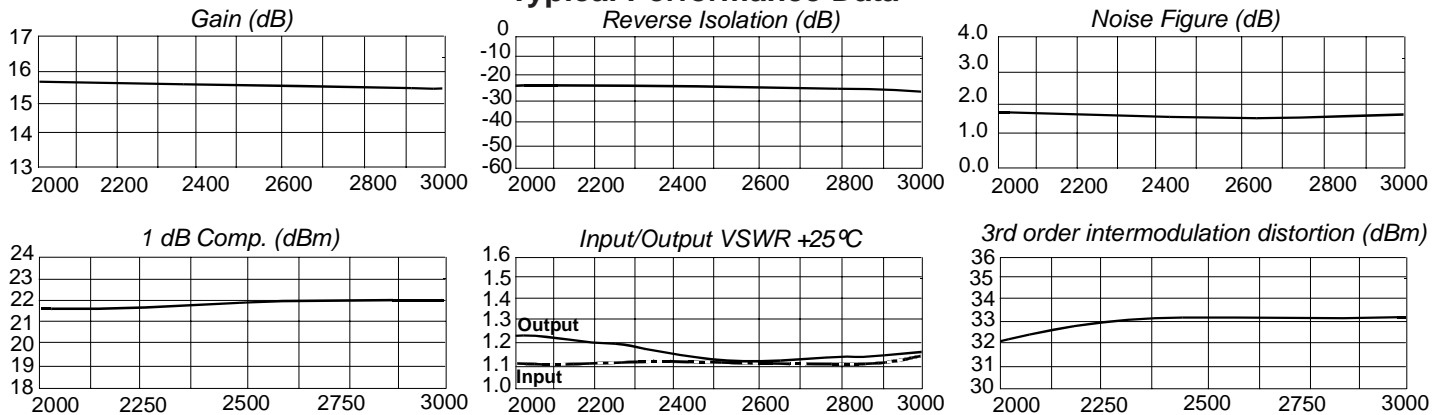
Maximum Ratings

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.)

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
VSWR 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

Typical Performance Data



Legend ——— +25 °C

Linear S-Parameters Data

FREQ. MHz	-- S11 --		-- S21 --		-- S12 --		-- S22 --	
	dB	Ang	dB	Ang	dB	Ang	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



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