

RF AMPLIFIER

Available as: QBS-368, Housing (E52-19726)

MODEL QBS-368

Features

- High Gain: 32.0 dB Typical
- High Power: +46 dBm Typical
- Operating Temp. 0 °C to +60 °C
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = 0 °C to +60 °C
Frequency	2400 - 2450 MHz	2400 - 2450 MHz
Gain (dB)	32.0 ± 1.0	—
Gain vs. Temperature	—	+1.0/ -1.0 Max.
Gain Flatness	1.0	—
Reverse Isolation (dB)	—	—
VSWR In	1.5:1	1.5:1 Max.
VSWR Out	1.5:1	1.5:1 Max.
1 dB Compression (dBm)	+46	+45 Min.
Output Intercept point 3rd Order	+55	+54 Min.
2nd Order	—	—
Power Vdc	15	15
mA	10500	10500 Max.

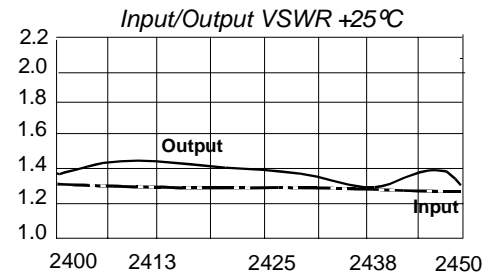
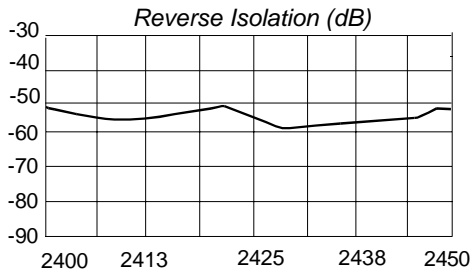
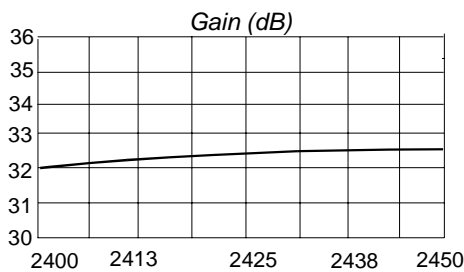
Maximum Ratings

Ambient Operating Temperature 0 °C to +60 °C
 Storage Temperature -65 °C to + 125 °C
 Case Temperature + 125 °C
 DC Voltage + 18 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:

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

Typical Performance Data



Legend ——— + 25 °C

Linear S-Parameters Data

FREQ. MHz	-- S11 -- dB Ang	-- S21 -- dB Ang	-- S12 -- dB Ang	-- S22 -- dB Ang
2402	-17.5 157.0	32.1 134.6	-53.9 -104.9	-16.9 -90.3
2407	-17.5 156.8	32.2 122.2	-56.9 144.1	-16.5 -109.9
2412	-17.8 153.2	32.3 110.0	-57.6 122.8	-14.9 -87.0
2417	-17.9 152.0	32.4 98.1	-56.8 85.4	-15.2 -118.6
2422	-18.1 154.6	32.5 85.7	-52.1 176.5	-16.1 -134.4
2427	-18.0 149.5	32.5 73.4	-59.9 -171.9	-15.8 -157.9
2437	-18.0 145.9	32.5 48.7	-57.8 -8.4	-17.9 -153.3
2442	-18.6 143.7	32.6 36.4	-55.6 44.7	-16.1 -140.6
2447	-18.7 140.2	32.5 24.2	-52.9 -61.2	-15.6 -163.9



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