

RF AMPLIFIER

Available as: QBS-367, Housing (E52-19563)

MODEL QBS-367

Features

- High Gain: 32.0 dB Typical
- High Power: +42 dBm Typical
- Operating Temp. 0 °C to +70 °C
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -0 °C to +70 °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)	-50	-50 Min.
VSWR In	1.5:1	1.7:1 Max.
VSWR Out	1.5:1	1.7:1 Max.
1 dB Compression (dBm)	+42	+41 Min.
Output Intercept point 3rd Order	+52	+50 Min.
2nd Order	—	—
Power Vdc	13-15	13-15
mA	6500	6700 Max.

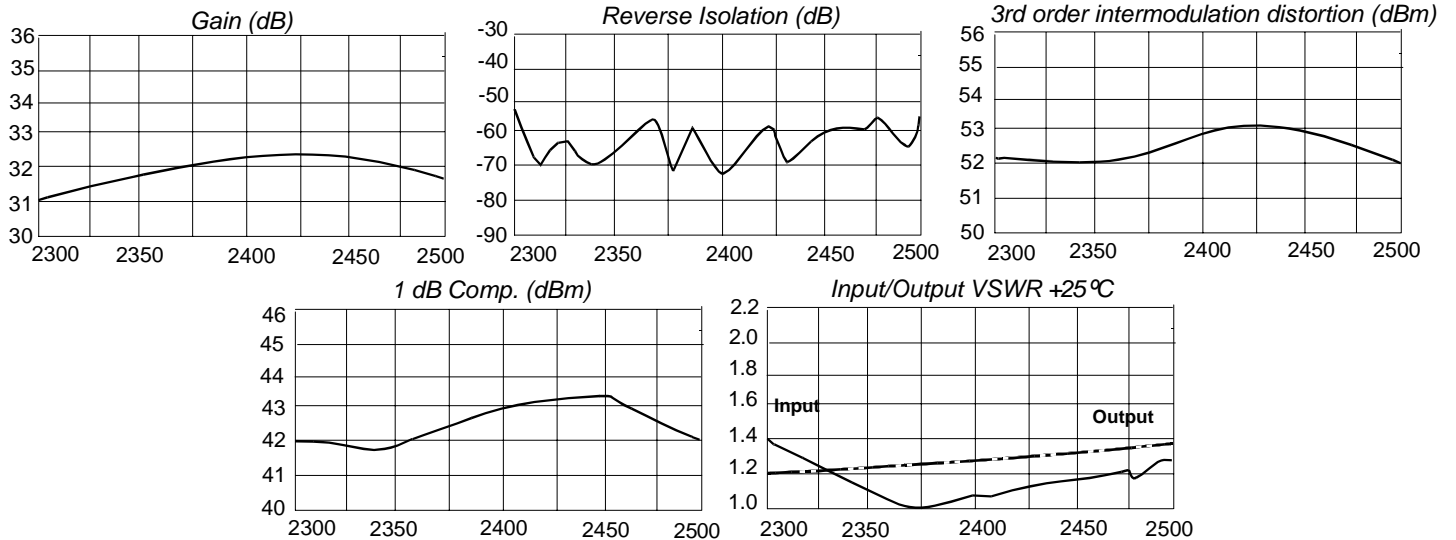
Maximum Ratings

Ambient Operating Temperature 0 °C to +70 °C
 Storage Temperature -65 °C to + 125 °C
 Case Temperature + 125 °C
 DC Voltage + 15 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
2400	-18.1 104.8	32.3 -107.1	-73.9 108.6	-26.6 6.9
2410	-17.9 103.8	32.4 -129.2	-66.3 115.8	-27.1 29.7
2420	-17.7 102.1	32.4 -151.5	-56.7 -125.8	-25.9 7.0
2430	-17.5 101.1	32.5 -174.1	-68.3 -36.1	-22.8 19.5
2440	-17.5 101.2	32.5 163.0	-60.2 -110.1	-22.5 -21.6
2450	-17.0 99.2	32.4 139.7	-59.9 -126.5	-21.5 -9.9



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