

RF AMPLIFIER

MODEL QB-761

Available as: QB-761, Housing (E52-0187-2)

Features

- High Gain: 23.0 dB Typical
- High Power: +18 dBm Typical
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX
Frequency	806 - 870 MHz	—
Gain (dB)	23.0 ±0.5	—
Gain vs. Temperature	—	—
Gain Flatness	1.0	—
Reverse Isolation (dB)	-39	—
VSWR In	1.5:1	—
VSWR Out	1.5:1	—
1 dB Compression (dBm)	+18	—
Output Intercept point 3rd Order	+32	—
2nd Order	—	—
Noise Figure (dB)	3.5	—
Power Vdc	+15	—
mA	140	—

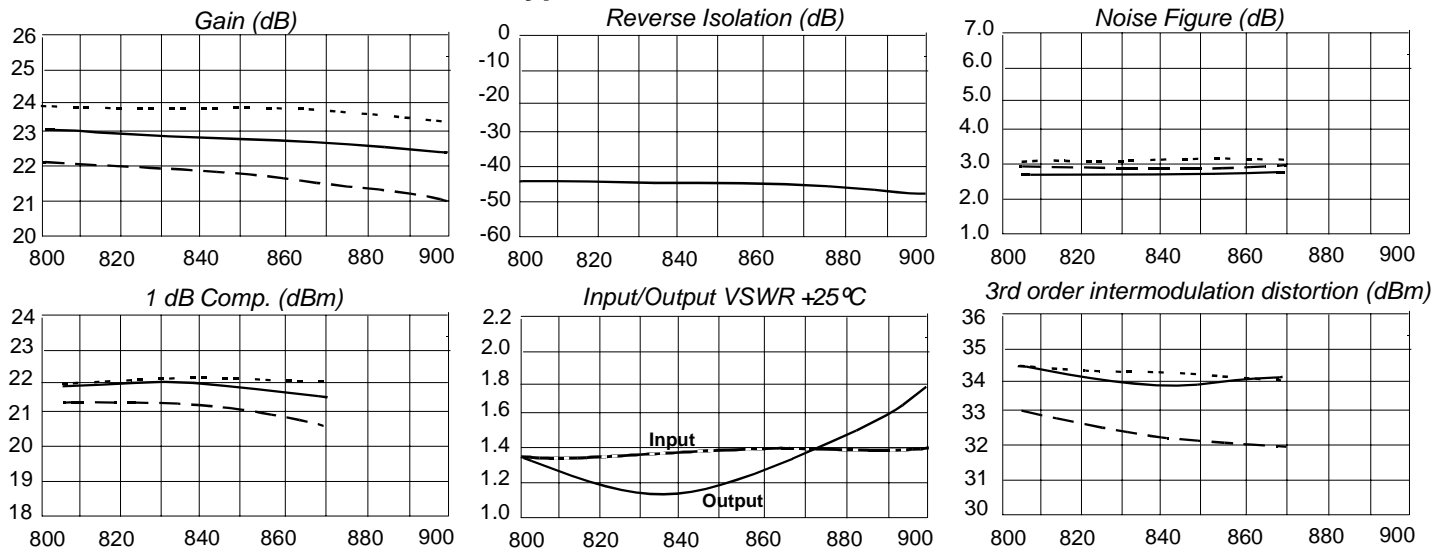
Maximum Ratings

Ambient Operating Temperature -55°C to +71 °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 - - - - + 71 °C ······ -55 °C

Linear S-Parameters Data

FREQ. MHz	-- S11-- dB Ang	-- S21-- dB Ang	-- S12-- dB Ang	-- S22-- dB Ang
806	-17.3 -179.1	23.1 -89.0	-44.1 -152.1	-18.8 75.9
838	-16.3 157.3	23.0 -110.0	-44.3 179.7	-25.4 -163.9
850	-16.0 147.9	22.9 -118.4	-44.7 177.4	-21.4 -151.3
870	-15.7 132.7	22.7 -133.0	-45.2 165.2	-16.0 -154.2



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