

# 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	—

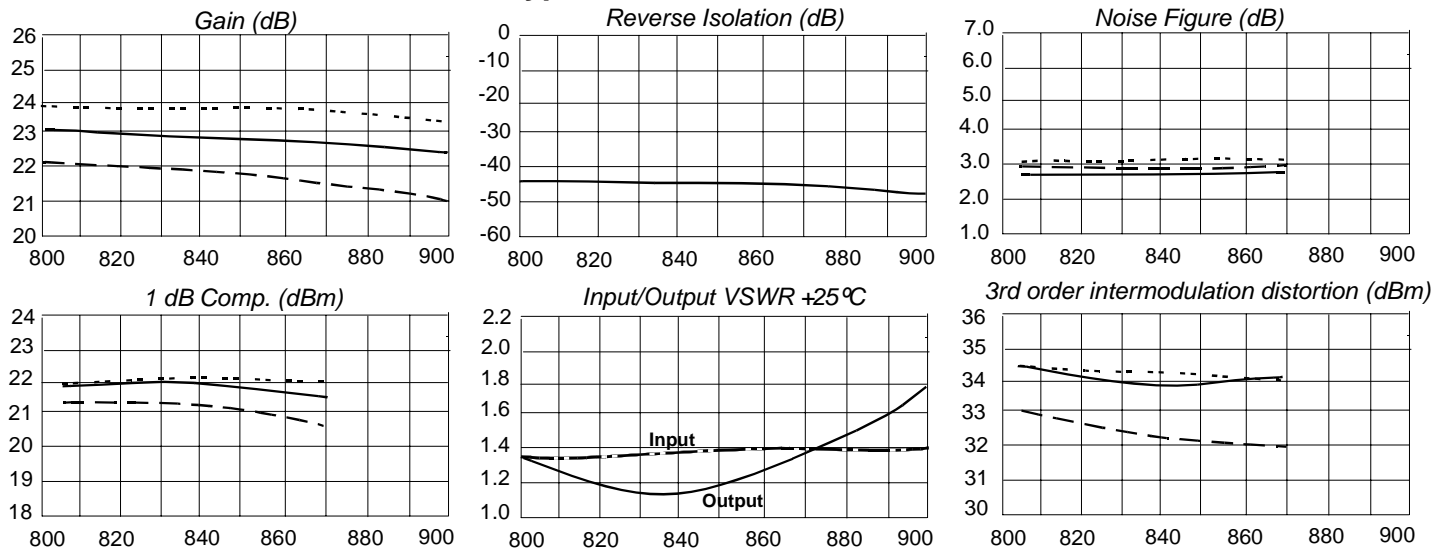
### Maximum Ratings

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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