

# RF AMPLIFIER

Available as: QB-300, Connectorized Housing (E52-0182)

## MODEL QB-300

### Features

- High Gain: 23 dB Typical
- High Power: +22 dBm Typical
- Operating Temp. - 54 °C to +71 °C
- Environmental Screening Available

### Specifications

CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -54 °C to +71 °C
Frequency	1 - 300 MHz	1 - 300 MHz
Gain (dB)	23 ± 1.0	—
Gain vs. Temperature	—	+0.5/ -0.6 Max.
Gain Flatness	1.0	—
Reverse Isolation (dB)	-36	—
VSWR In	1.5:1	—
VSWR Out	1.5:1	—
1 dB Compression (dBm)	+22	—
Output Intercept point		
3rd Order	+37	—
2nd Order	+52	—
Noise Figure (dB)	3.8	—
Power Vdc	+20	20 (Max)
mA	154	

### Maximum (NO DAMAGE) Ratings

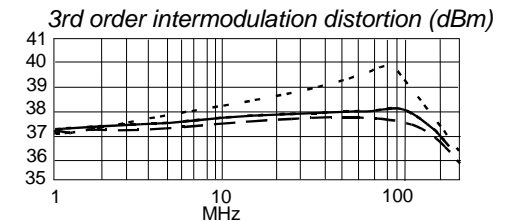
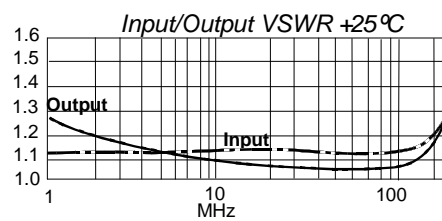
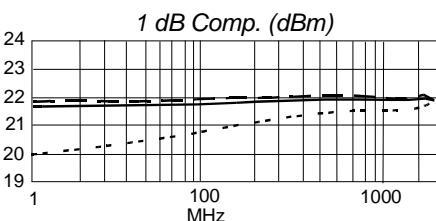
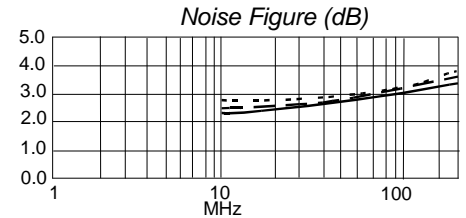
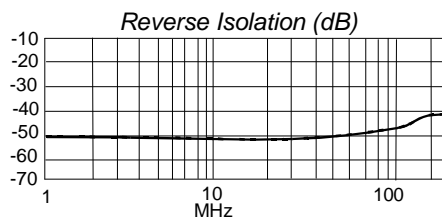
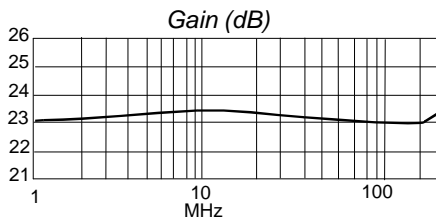
Ambient Operating Temperature ..... -54°C to +71 °C  
 Storage Temperature ..... -62°C to +125 °C  
 Case Temperature ..... +125 °C  
 DC Voltage ..... +21 Volts  
 Continuous RF Input Power ..... +13 dBm  
 Short Term RF Input Power ..... 50 Milliwatts (1 Minute Max.)  
 Maximum Peak Power ..... 0.5 Watt (3 µsec Max.)

#### Note:

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

Revision 3-16-2015

### Typical Performance Data



Legend ——— + 25 °C - - - - + 71 °C - - - - - -54 °C



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