

# RF AMPLIFIER

Available as: QBH-215, F-Pack (E52-5006)

## MODEL QBH-215

### Features

- High Gain: 12.3 dB Typical
- High Power: +26 dBm Typical
- Operating Temp. - 55 °C to +71 °C
- Environmental Screening Available

### Specifications

CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -55 °C to +71 °C
Frequency	10 - 500 MHz	10 - 500 MHz
Gain (dB)	12.3 ± 0.7	—
Gain vs. Temperature	—	+0.4/-0.8 Max.
Gain Flatness	1.0	1.0 Max.
Reverse Isolation (dB)	-25	-25 Min.
VSWR In	1.5:1	1.5:1 Max.
VSWR Out	1.5:1	1.5:1 Max.
1 dB Compression (dBm)	+26	+25 Min.
Output Intercept point 3rd Order	+35	+35 Min.
2nd Order	+42	+42 Min.
Noise Figure (dB)**	7.8	8.4 Max.
Power Vdc	+15	+15
mA	165	165 Max.

### Absolute Maximum (No Damage) Ratings

Ambient Operating Temperature ..... -55°C to +105 °C  
 Storage Temperature ..... -65°C to +150 °C  
 Case Temperature ..... +125 °C  
 DC Voltage ..... +16.5 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.)

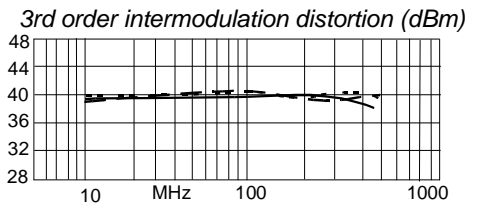
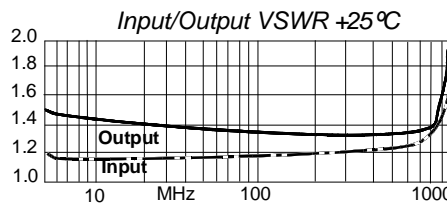
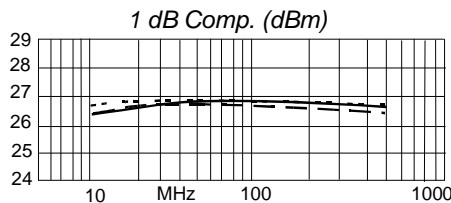
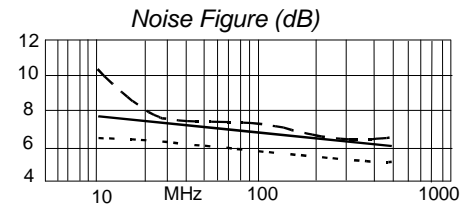
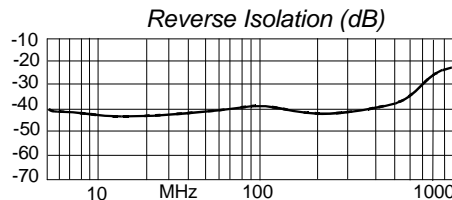
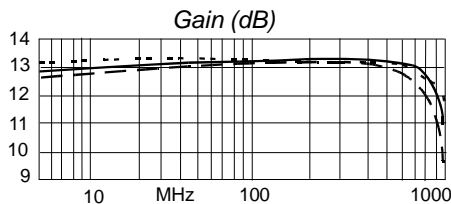
Note: Specifications are guaranteed when tested in a 50 Ohm system.  
 Specifications indicated as typical are not guaranteed.

REVISION:6-23-2016

ECN: Performance Changes including Gain, NF, P1dB and VSWR

\*\* Noise Figure: Measured and Guaranteed from 20-500 MHz

### Typical Performance Data



Legend ——— + 25 °C - - - - + 71 °C - - - - - - -55 °C



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