

# RF AMPLIFIER

Available as: QBH-8769, Housing (E52-19422)

## MODEL QBH-8769

Preliminary

### Features

- Low Noise Figure: 2.1 dB Typical
- High Gain: 16 dB Typical
- Operating Temp. -40 °C to +70 °C
- Environmental Screening Available

### Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -40 °C to +70 °C	
Frequency	1.5 - 400 MHz	1.5 - 400 MHz	
Gain (dB)	16	—	
Reverse Isolation (dB)	25	20 Min.	
VSWR	In Out	1.6:1 1.6:1	2.0:1 Max. 2.0:1 Max.
1 dB Compression (dBm)	+13	+11 Min.	
Output Intercept point			
3rd Order	+38	+33 Min.	
2nd Order	+29	+24 Min.	
Noise Figure (dB)	2.1	2.4 Max.	
Power	Vdc mA	+5 40	+5 50 Max.

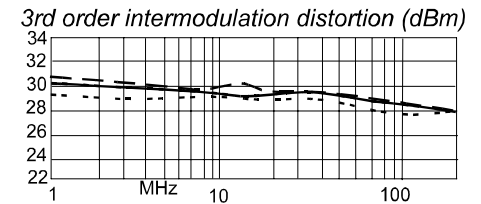
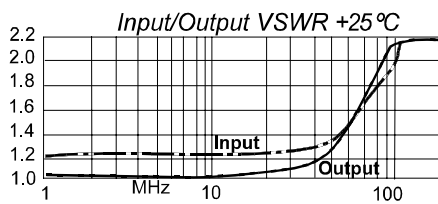
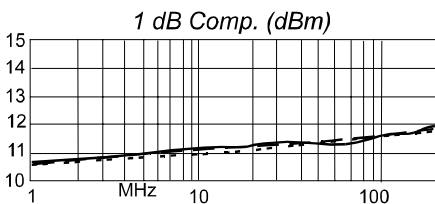
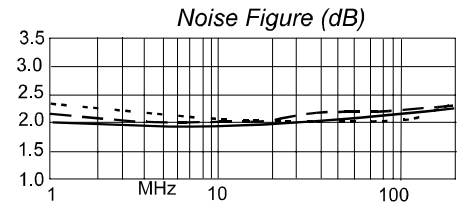
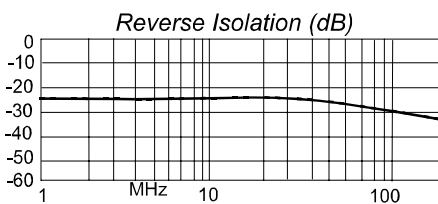
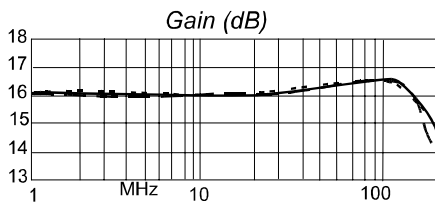
### Absolute Maximum (No Damage) Ratings

Ambient Operating Temperature ..... -55 °C to +125 °C  
 Storage Temperature ..... -65 °C to +150 °C  
 Case Temperature ..... +150 °C  
 DC Voltage ..... +25 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    - - - - +70 °C    - - - - - - - - - -40 °C



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