

RF AMPLIFIER

MODEL QBH-2818

Available as: QBH-2818 : Outline Drawing 080-22675

Features

- High Output Power: +30 dBm Typical
- High Third Order Intercept: +42 dBm Typical
- QBH-2818LF ...RoHS Compliant Lead Free Option

Specifications

| CHARACTERISTIC | TYPICAL Ta= 25 °C | MIN/MAX Ta = +25 °C |
|---|----------------------|------------------------|
| Frequency | .35 - 400 MHz | .35 - 400 MHz |
| Gain (dB) (f=50 MHz) | 18.5 | 17.75 Min. |
| Power @ 1 dB Comp. (f=200 MHz) (dBm) | 30 | 29 Min. |
| Reverse Isolation (dB) | -23 | -21 Max. |
| VSWR In | 1.75:1 | 2.0:1 Max. |
| Out | 1.75:1 | 2.0:1 Max. |
| Noise Figure (dB) (f=200 MHz) | 5.0 | 6.0 Max. |
| Power Vdc | +24 | +24 |
| mA | 245 | 260 Max. |

Notes:

1. Maximum operating temperature is defined as that temperature which, if exceeded for extended periods, could result in premature unit failure. This data is provided for user reliability information. This may or may not represent the maximum temperature for electrical parameter specifications.
2. Specifications are guaranteed when tested in a 50 Ohm system.
3. Care should always be taken to effectively ground the case of each unit.
4. Specifications indicated as typical are not guaranteed.

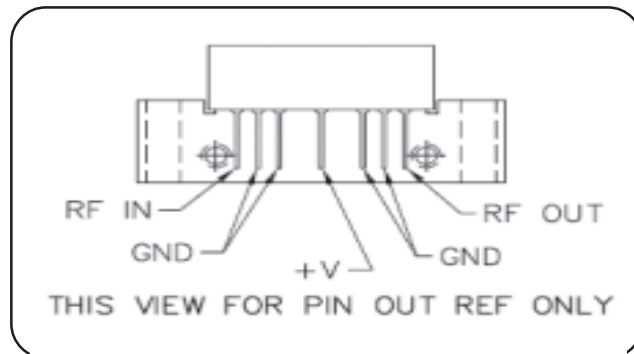
Revision 12-11-2015

Typical Intermodulation Performance at 25 ° C

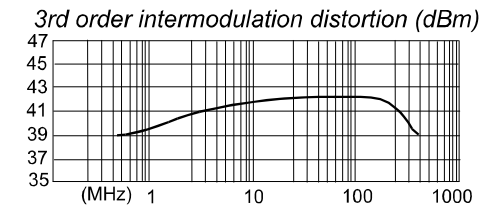
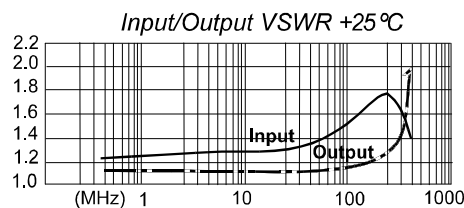
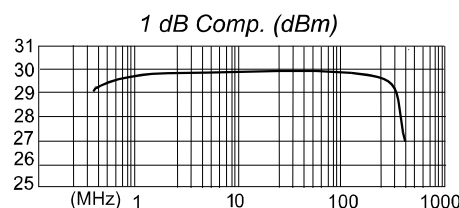
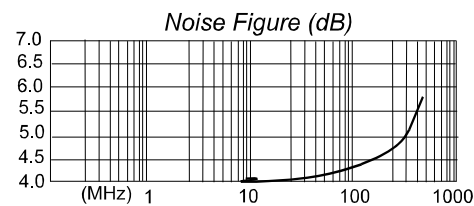
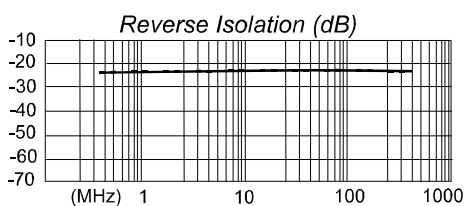
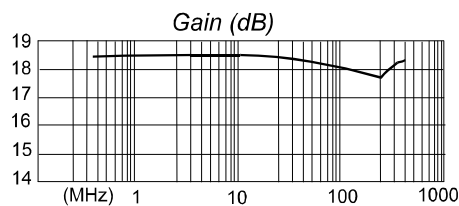
Second Order Two Tone Intercept Point +68 dBm (Typ.)
Third Order Two Tone Intercept Point +42 dBm (Typ.)

Absolute (No Damage) Maximum Ratings

Ambient Operating Temperature -20°C to +100 °C
Storage Temperature -40°C to +100 °C
Case Temperature +100 °C
DC Voltage +28 Volts
Continuous RF Input Power +14 dBm



Typical Performance Data



Legend ——— + 25 °C



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