

# RF AMPLIFIER

## MODEL QBH-2818

Available as: QBH-2818 (400-22678-0001)

### Features

- High Output Power: +30 dBm Typical
- High Third Order Intercept: +42 dBm Typical

### Specifications

| CHARACTERISTIC                          |     | TYPICAL<br>Ta= 25 °C | MIN/MAX<br>Ta = +25 °C |
|-----------------------------------------|-----|----------------------|------------------------|
| Frequency                               |     | .35 - 400 MHz        | .35 - 400 MHz          |
| Gain (dB) (f=50 MHz)                    |     | 18.5                 | 17.75 Min.             |
| Power @ 1 dB Comp.<br>(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)<br>(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. Specifications indicated as typical are not guaranteed.
3. Care should always be taken to effectively ground the case of each unit.

### 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 Maximum Ratings

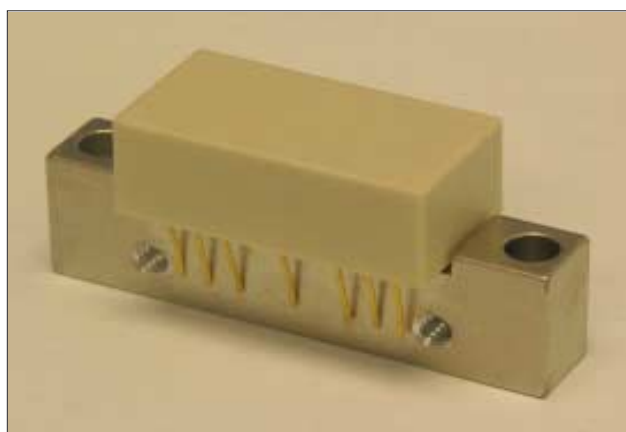
Ambient Operating Temperature ..... -20°C to +100 °C

Storage Temperature ..... -40°C to +100 °C

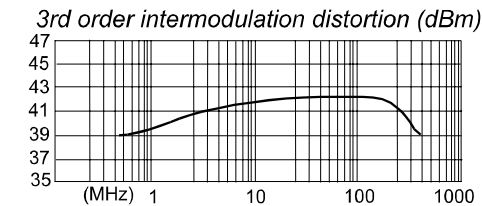
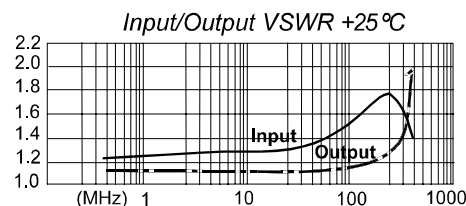
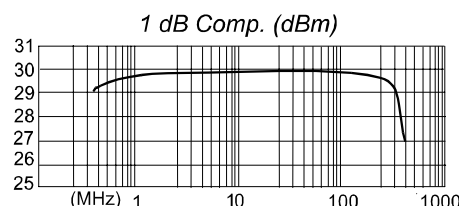
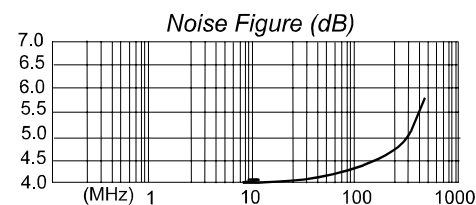
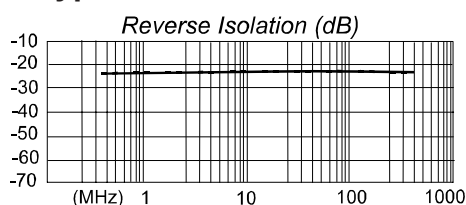
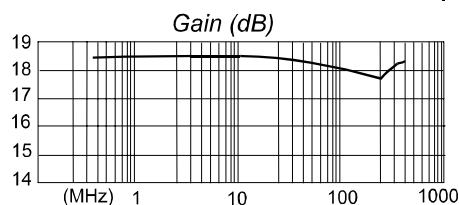
Case Temperature ..... +100 °C

DC Voltage ..... +28 Volts

Continuous RF Input Power ..... +14 dBm



### Typical Performance Data



Legend — + 25 °C



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