

# RF AMPLIFIER

## MODEL *TR3069*

Available as: TR3069, 4 Pin TO8B (T8)  
 RN3069, 4 Pin Surface Mount (SM19)  
 BR3069, Connectorized Housing (H2)

### Features

- Medium Gain: 14.5 dB Typical
- Output Power: +19 dBm Typical
- Operating Temp. - 25 °C to + 75 °C
- Environmental Screening Available

### Specifications

| CHARACTERISTIC              | TYPICAL<br>Ta= 25 °C | MIN/MAX<br>Ta = -25 °C to +75 °C |
|-----------------------------|----------------------|----------------------------------|
| Frequency                   | 1000-2000 MHz        | 1000-2000 MHz                    |
| Gain (dB)                   | 14.5                 | 13.5 Min.                        |
| Power @ 1 dB<br>Comp. (dBm) | +19                  | +18.5 Min.                       |
| Reverse<br>Isolation (dB)   | -21                  | -19 Max.                         |
| VSWR In                     | <2.3:1               | 2.5:1 Max.                       |
| Out                         | <1.7:1               | 2.0:1 Max.                       |
| Noise Figure (dB)           | 2.2                  | 2.6 Max.                         |
| Power Vdc                   | +12                  | +12                              |
| mA                          | 65                   | 70 Max.                          |

Note: Care should always be taken to effectively ground the case of each unit.

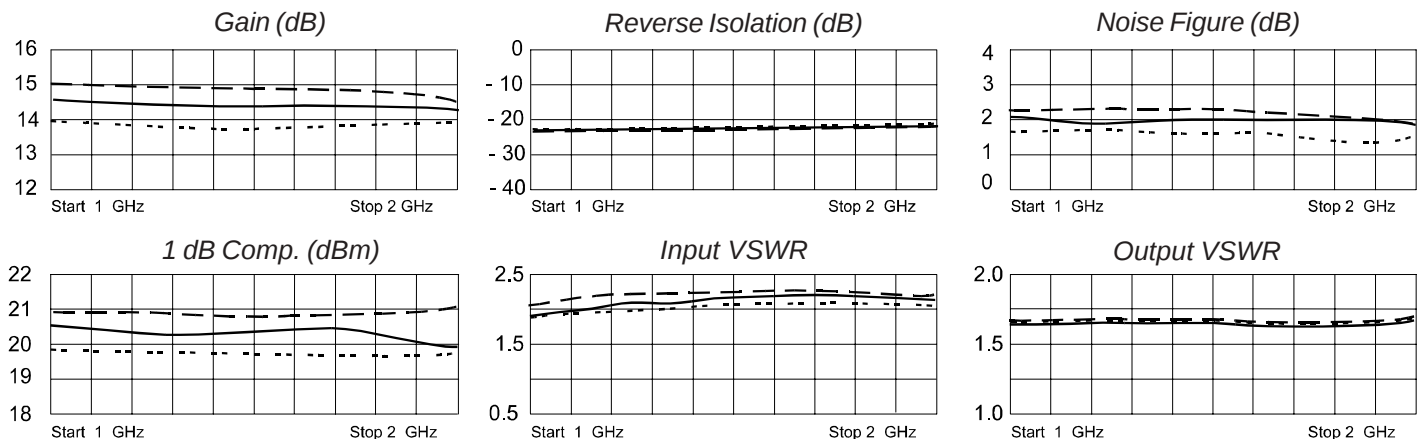
### Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point ..... +46 dBm (Typ.)  
 Second Order Two Tone Intercept Point ..... +41 dBm (Typ.)  
 Third Order Two Tone Intercept Point ..... +31 dBm (Typ.)

### Maximum Ratings

Ambient Operating Temperature ..... -55°C to + 100 °C  
 Storage Temperature ..... -62°C to + 125 °C  
 Case Temperature ..... + 125 °C  
 DC Voltage ..... + 18 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.)

### Typical Performance Data



Legend ——— + 25 °C    - - - - + 75 °C    . . . . . -25 °C



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