

RF AMPLIFIER

MODEL *TR3070*

Available as: TR3070, 4 Pin TO-8B (T8)
 RN3070, 4 Pin Surface Mount (SM19)
 BR3070, Connectorized Housing (H2)

Features

- High Output Power: + 24.5 dBm Typical
- Medium Gain: +22 dB Typical
- Operating Temp. - 55 °C to + 85 °C
- Environmental Screening Available

Specifications

| CHARACTERISTIC | TYPICAL Ta= 25 °C | MIN/MAX Ta = -55 °C to +85 °C |
|-----------------------------|----------------------|----------------------------------|
| Frequency (MHz) | 500 - 2000 MHz | 500 - 2000 MHz |
| Gain (dB) | 22 | 21 Min. |
| Power @ 1 dB Comp. (dBm) | +24.5 | +23 Min. |
| Reverse Isolation (dB) | -22 | -19 Max. |
| VSWR In | 1.5:1 | 2.0:1 Max. |
| Out | 1.5:1 | 2.0:1 Max. |
| Noise Figure (dB) | 3.3 | 4.0 Max. |
| Power Vdc | +12 | +12 Min. |
| mA | 175 | 200 Max. |

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

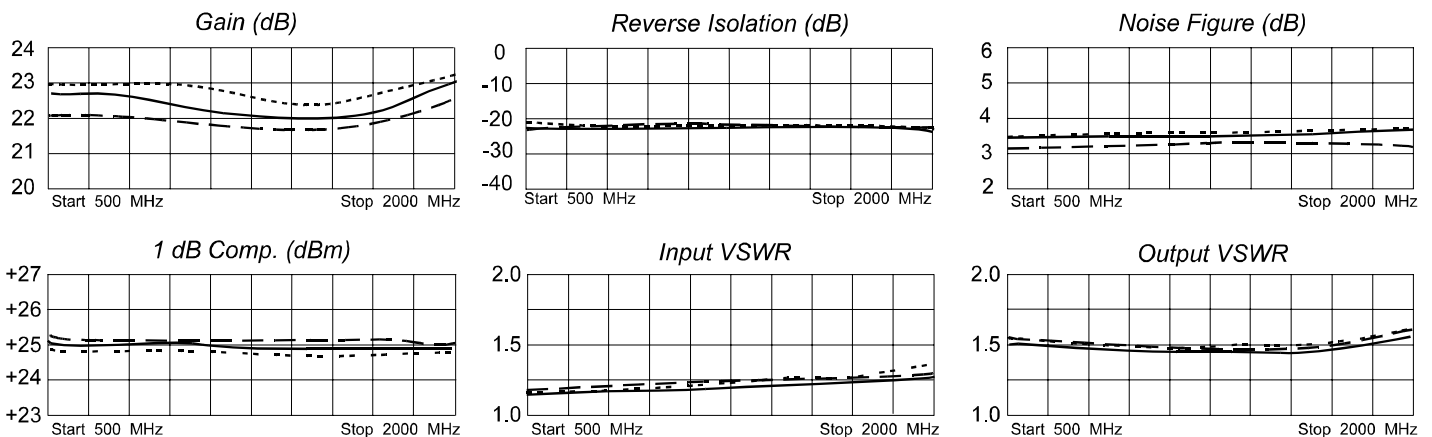
Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point +51 dBm (Typ.)
 Second Order Two Tone Intercept Point +45 dBm (Typ.)
 Third Order Two Tone Intercept Point +35 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 +15 Volts
 Continuous RF Input Power +13 dBm
 Short Term RF Input Power 100 Milliwatts (1 Minute Max.)
 Maximum Peak Power 0.5 Watt (3 µsec Max.)

Typical Performance Data



Legend ——— +25 °C - - - - +85 °C - - - - -55 °C



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