# RF AMPLIFIER
# MODEL *TM3027*

**Available as:** TM3027, 4 Pin TO-8 (T4)
TN3027, 4 Pin Surface Mount (SM3)
FP3027, 4 Pin Flatpack (FP4)
BX3027, Connectorized Housing (H1)

## Features

- High Gain: 24 dB Typical
- Low Noise Figure: <2.0 dB Typical
- Operating Temp. - 55 ºC to + 85 ºC
- Environmental Screening Available

## Specifications

| CHARACTERISTIC | TYPICAL Ta= 25 ºC | MIN/MAX Ta = -55 ºC to +85 ºC |
|---|---|---|
| Frequency | 30 - 500 MHz | 30 - 500 MHz |
| Gain (dB) | 24 | 22 Min. |
| Power @ 1 dB Comp. (dBm) | +8.5 | +7.0 Min. |
| Reverse Isolation (dB) | -27 | -26 Max. |
| VSWR In | <1.75:1 | 2.0:1 Max. |
| Out | <2.0:1 | 2.8:1 Max. |
| Noise Figure (dB) | <2.0 | 2.5 Max. |
| Power Vdc | +15 | +15 |
| mA | 20 | 22 Max. |

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

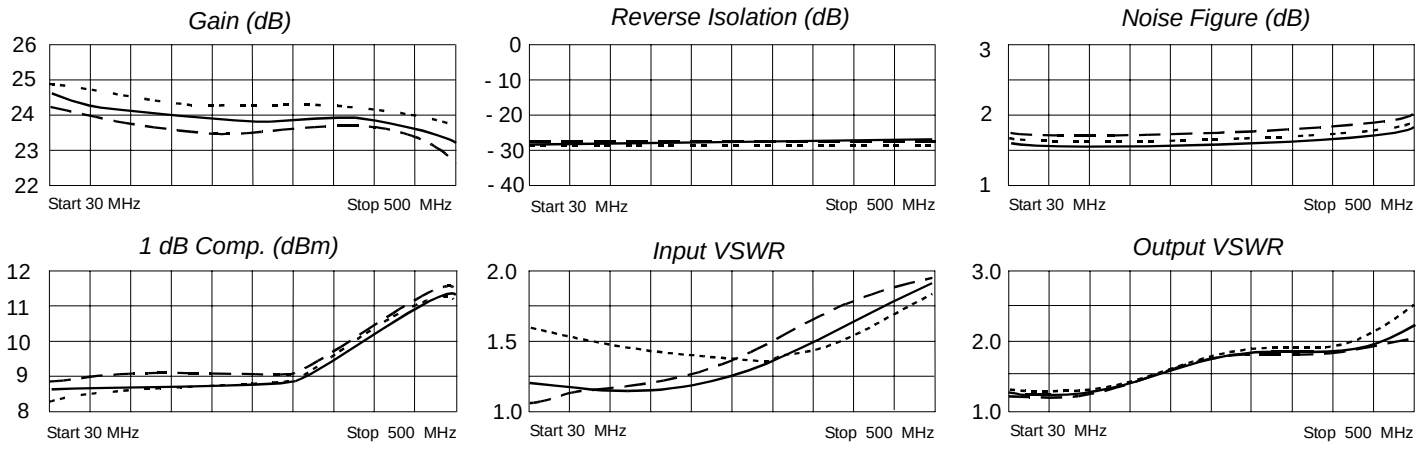
## Typical Intermodulation Performance at 25 º C

Second Order Harmonic Intercept Point ..... +27 dBm (Typ.)
Second Order Two Tone Intercept Point ..... +22 dBm (Typ.)
Third Order Two Tone Intercept Point ..... +19 dBm (Typ.)

## Maximum Ratings

Ambient Operating Temperature ..... -55ºC to + 100 ºC
Storage Temperature ..... -62ºC to + 125 ºC
Case Temperature ..... + 125 ºC
DC Voltage ..... + 18 Volts
Continuous RF Input Power ..... + 6 dBm
Short Term RF Input Power ..... 100 Milliwatts (1 MinuteMax.)
Maximum Peak Power ..... 0.1 Watt (3 µsec Max.)

## Typical Performance Data




*Legend* ——— *+ 25 ºC* – – – *+ 85 ºC* - - - - - - *-55 ºC*


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