# RF AMPLIFIER
# MODEL *TM3041*

**Available as:** TM3041, 4 Pin TO-8 (T4)
TN3041, 4 Pin Surface Mount (SM3)
FP3041, 4 Pin Flatpack (FP4)
BX3041, Connectorized Housing (H1)

## Features

- Low Noise Figure: 2.8 dB Typical
- High Output Power: +24 dBm Typical
- Operating Temp. - 55 ºC to +85 ºC
- Environmental Screening Available

## Typical Intermodulation Performance at 25 º C

Second Order Harmonic Intercept Point ..... +55 dBm (Typ.)
Second Order Two Tone Intercept Point ..... +50 dBm (Typ.)
Third Order Two Tone Intercept Point ..... +38 dBm (Typ.)

## Specifications

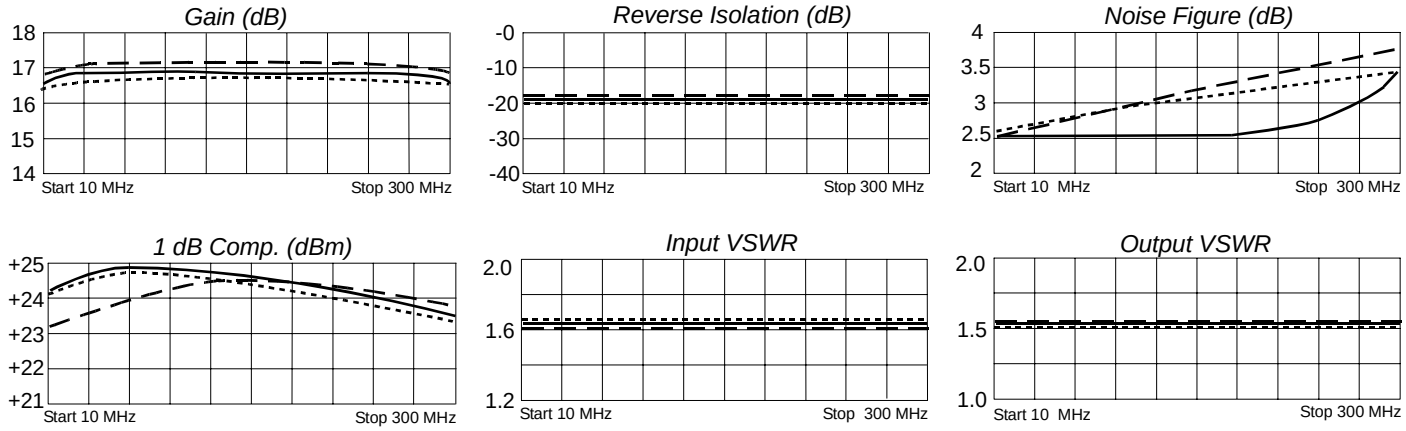
| CHARACTERISTIC | TYPICAL Ta= 25 ºC | MIN/MAX Ta = -55 ºC to +85 ºC |
|---|---|---|
| Frequency (MHz) | 10 - 300 MHz | 10 - 300 MHz |
| Gain (dB) | 16.5 | 15.5 Min. |
| Power @ 1 dB Comp. (dBm) | +24.0 | +23.0 Min. |
| Reverse Isolation (dB) | - 20 | - 19 Max. |
| VSWR In | 1.80:1 | 2.0:1 Max. |
| Out | 1.80:1 | 2.0:1 Max. |
| Noise Figure (dB) | 2.8 | 4.0 Max. |
| Power Vdc | +15 | +15 |
| mA | 80 | 85 Max. |

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

## 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 ..... + 13 dBm
Short Term RF Input Power ..... 50 mW (1 Minute Max.)
Maximum Peak Power ..... 0.5 Watt (3 µsec Max.)

## Typical Performance Data




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


*Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, Florida 32905 · PH (888) 553-7531 · Fax (888) 553-7532*
www.spectrummicrowave.com *Spectrum Microwave (Europe) · 2707 Black Lake Place · Philadelphia, Pa. 19154 · PH (215) 464-4000 · Fax (215) 464-4001*



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