# RF AMPLIFIER
# MODEL *TM3115*

**Available as:** TM3115, 4 Pin TO-8 (T4)
TN3115, 4 Pin .450" sq. Surface Mount (SM3)
BX3115, SMA Connectorized Housing (H1)

## Features

- Low Phase Noise Bipolar Design
- High Output Power: +27 dBm 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 | 10 - 1400 MHz | 10 - 1400 MHz |
| Gain | 13.0 dB | 11.5 dB Min. |
| Power @ 1 dB Comp. | | |
| (10-1000 MHz) | 27 dBm | 25 dBm Min. |
| (1000-1200 MHz) | 24 dBm | 22 dBm Min. |
| (1200-1400 MHz) | 22 dBm | 20 dBm Min. |
| Reverse Isolation (dB) | -17 dB | - |
| VSWR In | 1.8:1 | 2.2:1 Max. |
| Out | 1.8:1 | 2.0:1 Max. |
| Noise Figure (dB) | 8.0 dB | 10.0 dB Max. |
| Power Vdc | +15 volts | +15 volts |
| mA | 195 mA | 210 mA Max. |

## Typical Intermodulation Performance at 25 º C

Second Order Harmonic Intercept Point ..... +40 dBm (Typ.)
Second Order Two Tone Intercept Point ..... +35 dBm (Typ.)
Third Order Two Tone Intercept Point ..... +30 dBm (Typ.)

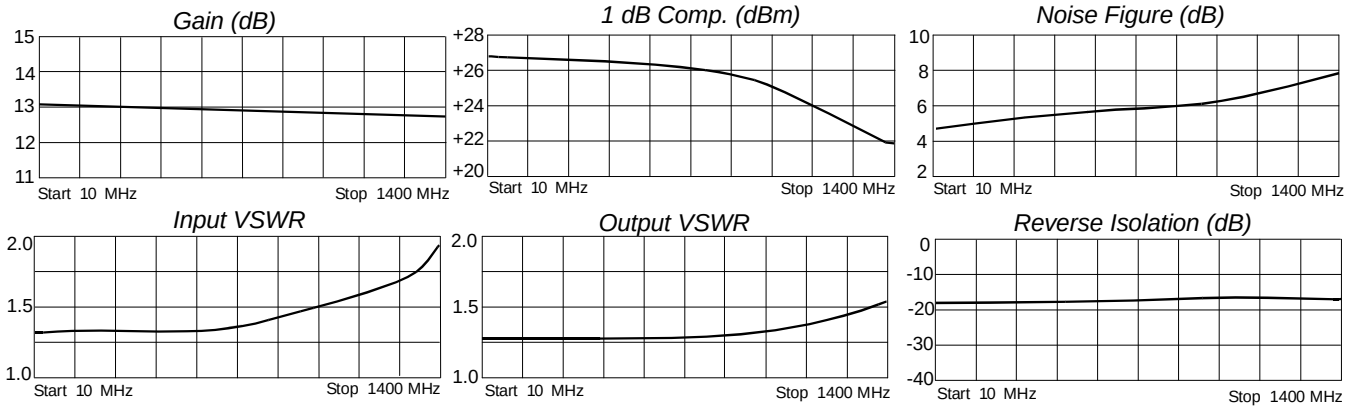
## Absolute (No Damage) Maximum Ratings

Ambient Operating Temperature ..... -55ºC to +100 ºC
Storage Temperature ..... -62ºC to +125 ºC
Case Temperature ..... +125 ºC
DC Voltage ..... +17 Volts
Continuous RF Input Power ..... +15 dBm
Short Term RF Input Power ..... 50 Milliwatts (1 Minute Max.)
Maximum Peak Power ..... 0.1 Watt (3 µsec Max.)

(Measured in a 50 Ohm system @ +15 Volts DC nominal unless otherwise noted)

Revision 9-3-2013

## Typical Performance Data




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


www.SpectrumMicrowave.com

*Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, Florida 32905 · PH (888) 553-7531 · Fax (888) 553-7532*

*Spectrum Microwave · 2707 Black Lake Place · Philadelphia, Pa. 19154 · PH (215) 464-4000 · Fax (215) 464-4001*