

# RF AMPLIFIER

## MODEL *TM3066*

Available as: TM3066, 4 Pin TO-8 (T4)  
 TN3066, 4 Pin Surface Mount (SM3)  
 FP3066, 4 Pin Flatpack (FP4)  
 BX3066, Connectorized Housing (H1)

### Features

- High Gain: 31 dB Typical
- Low Noise Figure: 2.0 dB Typical
- Operating Temp. - 55 °C to + 85 °C
- Environmental Screening Available

### Specifications

| CHARACTERISTIC              | TYPICAL<br>Ta= 25 °C | MIN/MAX<br>Ta = -55 °C to +85 °C |
|-----------------------------|----------------------|----------------------------------|
| Frequency                   | 5 - 300 MHz          | 10 - 300 MHz                     |
| Gain (dB)                   | 31                   | 30 Min.                          |
| Power @ 1 dB<br>Comp. (dBm) | +18                  | +17 Min.                         |
| Reverse<br>Isolation (dB)   | - 35                 | -34 Max.                         |
| VSWR In                     | 1.5:1                | 1.7:1 Max.                       |
| Out                         | 1.5:1                | 1.7:1 Max.                       |
| Noise Figure (dB)           | 2.0                  | 2.5 Max.                         |
| Power Vdc                   | +15                  | +15 Min.                         |
| mA                          | 85                   | 90 Max.                          |

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

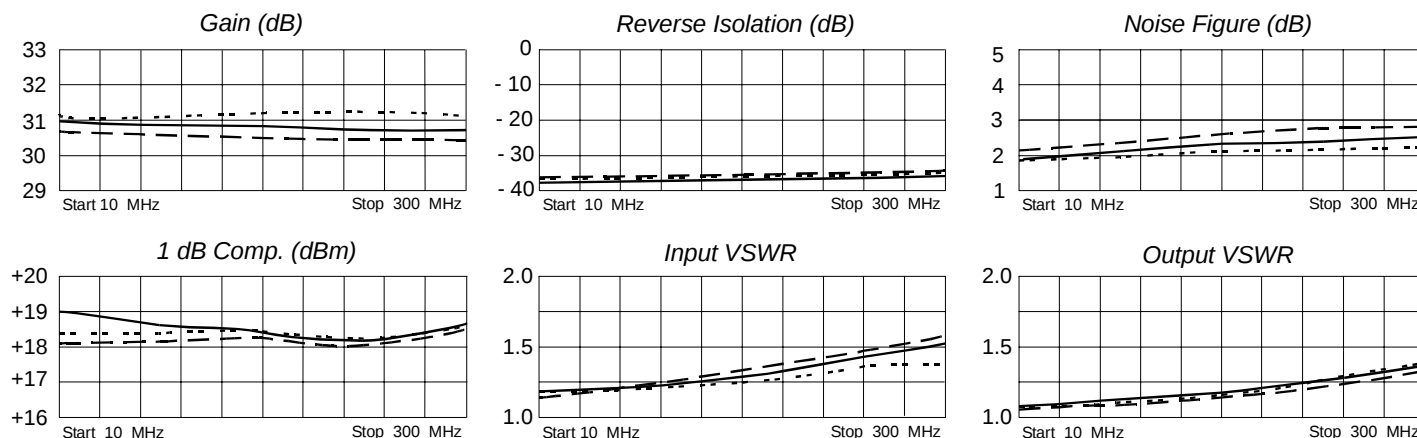
### Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point ..... +42 dBm (Typ.)  
 Second Order Two Tone Intercept Point ..... +39 dBm (Typ.)  
 Third Order Two Tone Intercept Point ..... +32 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 - - - + 85 °C ······ -55 °C

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Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, Florida 32905 · PH (888) 553-7531 · Fax (888) 553-7532 02/17/06

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

www.DataSheet4U.com