

# RF AMPLIFIER

## MODEL *TM3035*

Available as: TM3035, 4 Pin TO-8 (T4)  
 TN3035, 4 Pin Surface Mount (0.450" Sq.)  
 FP3035, 4 Pin Flatpack (0.500" Sq.)  
 PN3035, 4 Pin Surface Mount (0.375" Sq.)  
 BX3035, Connectorized Housing (H1L)

### Features

- High Output Power: +28.5 dBm Typical
- Medium Gain: 16 dB Typical
- Operating Temp. -55 °C to +100 °C
- Environmental Screening Available

### Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +100 °C
Frequency	80 - 120 MHz	80 - 120 MHz
Gain (dB)	16	15 Min.
Power @ 1 dB Comp. (dBm)	+28.5	+27 Min.
Reverse Isolation (dB)	-22.5	-21.5 Max.
VSWR In	1.8:1	2.0:1 Max.
Out	1.25:1	2.0:1 Max.
Noise Figure (dB)	3.0	5.0 Max.
Power Vdc	+11	+11
mA	170	180 Max.

Note: Care should always be taken to effectively ground the case of each unit.  
 Revision 4/11/2012

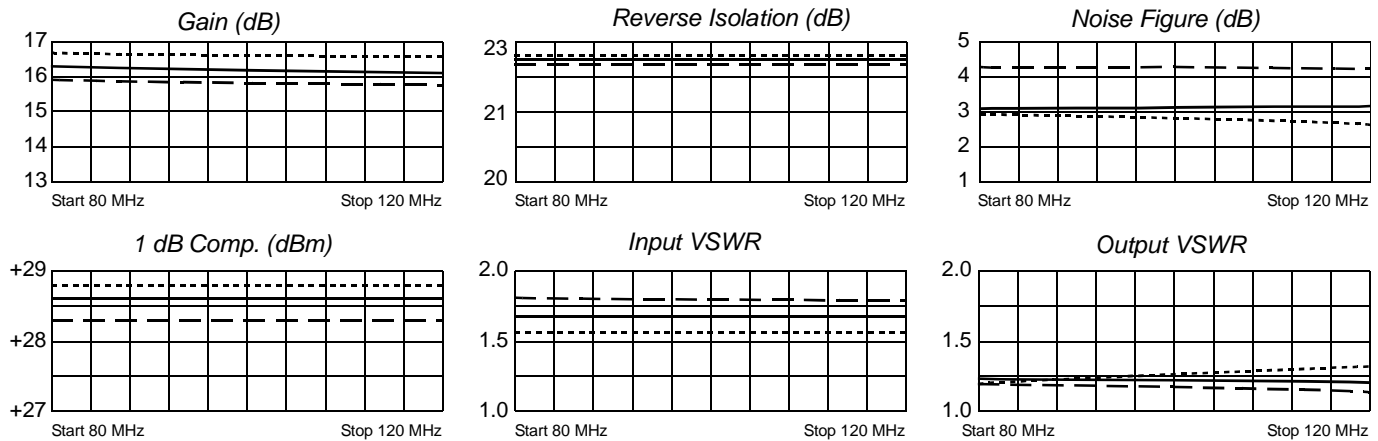
### Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point ..... +56 dBm (Typ.)  
 Second Order Two Tone Intercept Point ..... +50 dBm (Typ.)  
 Third Order Two Tone Intercept Point ..... +45 dBm (Typ.)

### Absolute Maximum (No Damage) Ratings

Ambient Operating Temperature ..... -55°C to +110 °C  
 Storage Temperature ..... -62°C to +125 °C  
 Case Temperature ..... +125 °C  
 DC Voltage ..... +15 Volts  
 Continuous RF Input Power ..... +20 dBm  
 Short Term RF Input Power.... 200 Milliwatts (1 Minute Max.)  
 Maximum Peak Power..... 0.5 Watt (3 μsec Max.)

### Typical Performance Data



Legend ——— +25 °C - - - - +100 °C - - - - -55 °C



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