

# RF AMPLIFIER

## MODEL *TM3021*

Available as: TM3021, 4 Pin TO-8 (T4)  
 TN3021, 4 Pin Surface Mount (SM3)  
 FP3021, 4 Pin Flatpack (FP4)  
 BX3021, Connectorized Housing (H1)

### Features

- Medium Gain: 16 dB Typical
- Output Power: +11.5 dBm Typical
- Operating Temp. - 55 °C to + 85 °C
- Environmental Screening Available

### Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency (MHz)	750 - 1250 MHz	750 - 1250 MHz
Gain (dB)	16.0	14.0 Min.
Power @ 1 dB Comp. (dBm)	+11.5	+10.0 Min.
Reverse Isolation (dB)	-35	-33 Max.
VSWR In	<1.75:1	2.0:1 Max.
Out	<1.75:1	2.0:1 Max.
Noise Figure (dB)	<4.5	5.0 Max.
Power Vdc	+15	+15
mA	65	75 Max.

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

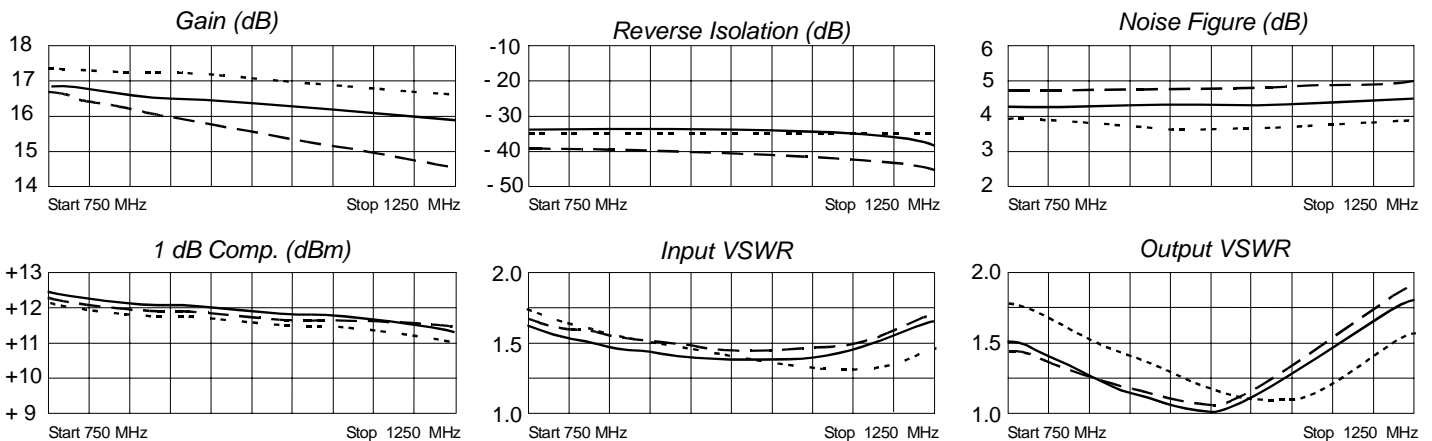
### Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point.... +43 dBm (Typ.)  
 Second Order Two Tone Intercept Point.... +38 dBm (Typ.)  
 Third Order Two Tone Intercept Point..... +22 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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