

# 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 °C to +85 °C
- Environmental Screening Available

### Typical Intermodulation Performance at 25 ° 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

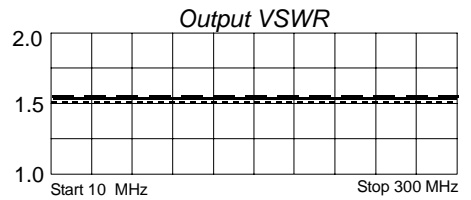
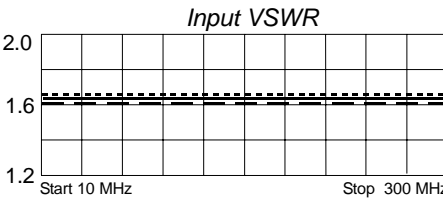
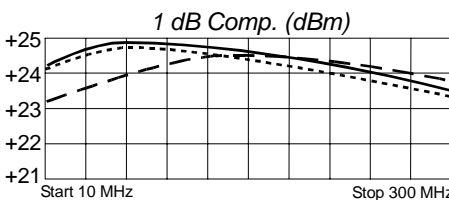
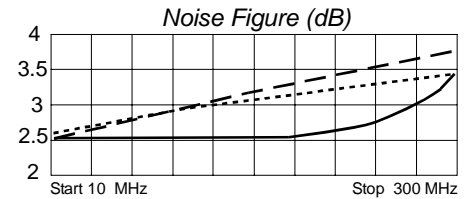
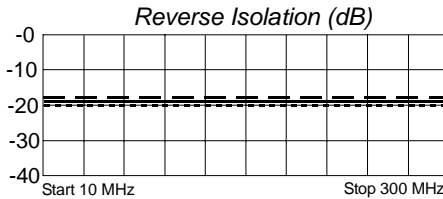
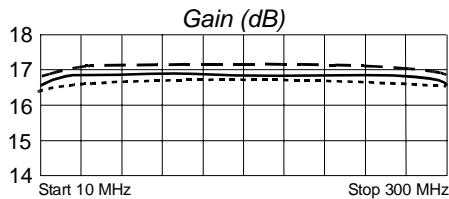
CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency (MHz)	10 - 300 MHz	10 - 300 MHz
Gain (dB)	16.5	15.5 Min.
Power @ 1 dB		
Comp. (dBm)	+24.0	+23.0 Min.
Reverse Isolation (dB)	- 20	- 19 Max.
VSWR In	1.80:1	2.0:1 Max.
Out	1.80:1	2.0:1 Max.
Noise Figure (dB)	2.8	4.0 Max.
Power Vdc	+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 ..... -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 mW (1 Minute Max.)  
 Maximum Peak Power ..... 0.5 Watt (3 µsec Max.)

### Typical Performance Data



Legend ——— + 25 °C    - - - - + 85 °C    ······ -55 °C

