

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

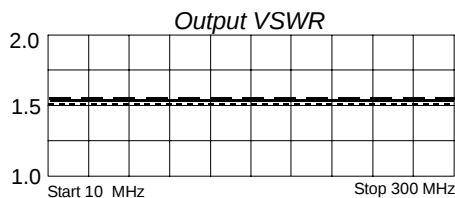
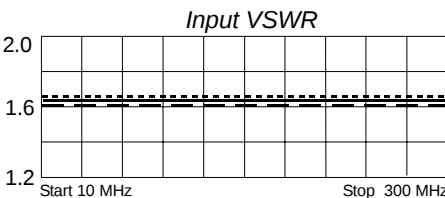
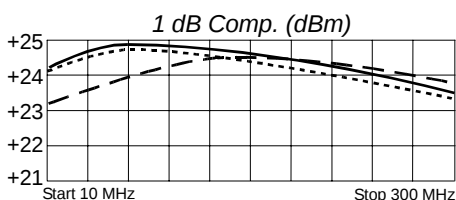
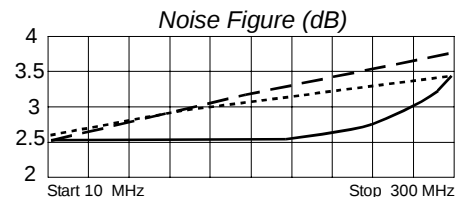
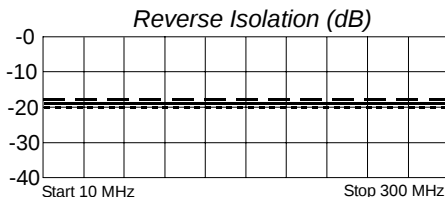
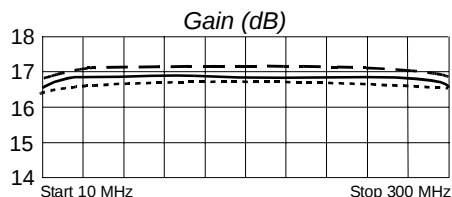
CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency (MHz)	10 - 300 MHz	10 - 300 MHz
Gain (dB)	16.5	15.5 Min.
Power @ 1 dB		
Comp. (dBm)	+24.0	+23.0 Min.
Reverse Isolation (dB)	- 20	- 19 Max.
VSWR In	1.80:1	2.0:1 Max.
Out	1.80:1	2.0:1 Max.
Noise Figure (dB)	2.8	4.0 Max.
Power Vdc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



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Rev.