

RF AMPLIFIER

MODEL *TM3025*

Available as: TM3025, 4 Pin TO-8 (T4)
 TN3025, 4 Pin Surface Mount (SM3)
 FP3025, 4 Pin Flatpack (FP4)
 BX3025, Connectorized Housing (H1)

Features

- High Output Power: +22 dBm Typical
- Operating Temp. 0 °C to + 70 °C
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = 0 °C to +70 °C
Frequency	100 - 400 MHz	100 - 400 MHz
Gain (dB)	14	13 Min.
Power @ 1 dB Comp. (dBm)	+22	+21 Min.
Reverse Isolation (dB)	-15.5	-15 Max.
VSWR In	<1.75:1	2.0:1 Max.
Out	<1.75:1	2.0:1 Max.
Noise Figure (dB)	<4.0	5.0 Max.
Power Vdc	+12	+12
mA	95	100 Max.

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

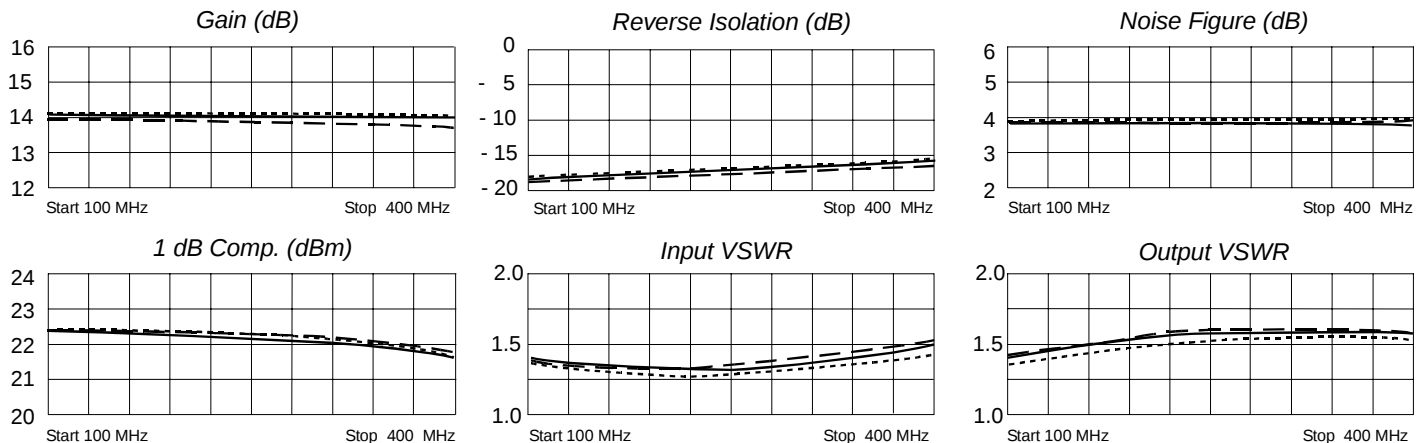
Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +55 dBm (Typ.)
 Second Order Two Tone Intercept Point +50 dBm (Typ.)
 Third Order Two Tone Intercept Point +35 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 + 15 Volts
 Continuous RF Input Power + 15 dBm
 Short Term RF Input Power 100 Milliwatts (1 Minute Max.)
 Maximum Peak Power 0.5 Watt (3 µsec Max.)

Typical Performance Data



Legend ——— + 25 °C - - - + 70 °C 0 °C