

RF AMPLIFIER

MODEL *TM3040*

Available as: TM3040, 4 Pin TO-8 (T4)
 TN3040, 4 Pin Surface Mount (SM3)
 FP3040, 4 Pin Flatpack (FP4)
 BX3040, Connectorized Housing (H1)

Features

- High Output Power: +27 dBm Typical
- High IP₃: +39 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	100 - 250 MHz	100 - 250 MHz
Gain (dB)	14.5	13.5 Min.
Power @ 1 dB Comp. (dBm)	+27	+26 Min.
Reverse Isolation (dB)	-22	-20 Max.
VSWR In	1.6	2.0:1 Max.
Out	1.35	2.0:1 Max.
Noise Figure (dB)	4	6.0 Max.
Power Vdc	+15	+15
mA	110	125 Max.

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

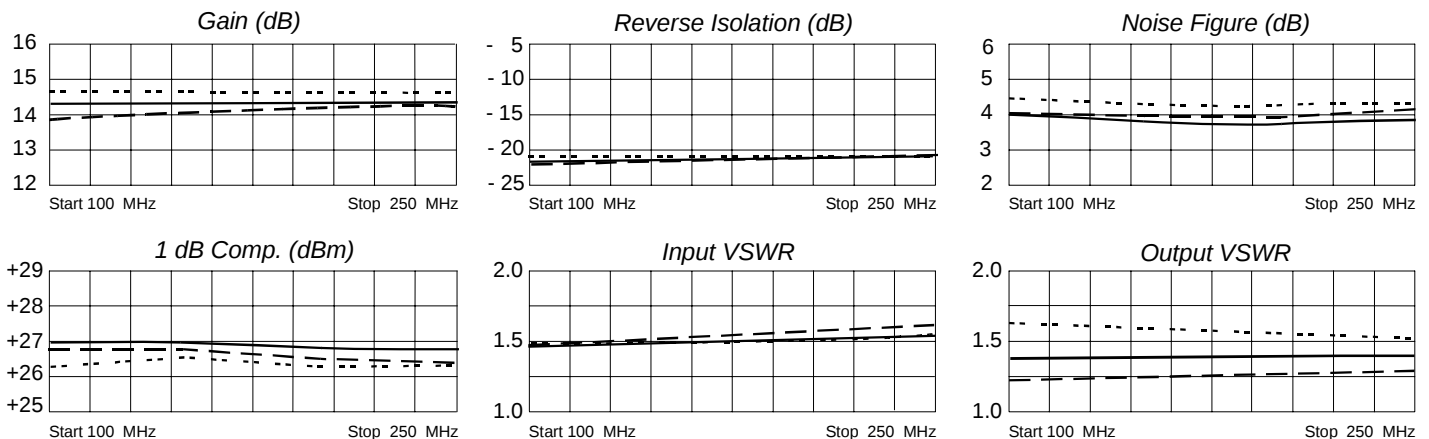
Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +58 dBm (Typ.)
 Second Order Two Tone Intercept Point +54 dBm (Typ.)
 Third Order Two Tone Intercept Point +39 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 + 18 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

Linear S-Parameters

Freq. MHz	---S11---		---S21---		---S12---		---S22---	
	Mag	Deg	Mag	Deg	Mag	Deg	Mag	Deg
100	.09	-55	5.54	149	.0913	142	.22	-40
150	.10	-100	5.49	131	.0940	122	.21	-68
200	.12	-130	5.31	115	.1000	105	.21	-99
250	.18	-166	5.07	97	.1054	89	.22	-135

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