

RF AMPLIFIER

MODEL *TM3063*

Available as: TM3063, 4 Pin TO-8 (T4)
 TN3063, 4 Pin Surface Mount (SM3)
 BX3063, Connectorized Housing (H1)

Features

- Low Noise Figure: 3.75 dB Typical
- High Gain: +24 dB 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	50 - 1000 MHz	50 - 1000 MHz
Gain (dB)	24	23 Min.
Power @ 1 dB Comp. (dBm)	+10	+9 Min.
Reverse Isolation (dB)	-30	-25 Max.
VSWR In	<1.5:1	2.0:1 Max.
Out	<1.75:1	2.0:1 Max.
Noise Figure (dB)	3.75	4.5 Max.
Power Vdc	+5	+5
mA	40	50 Max.

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

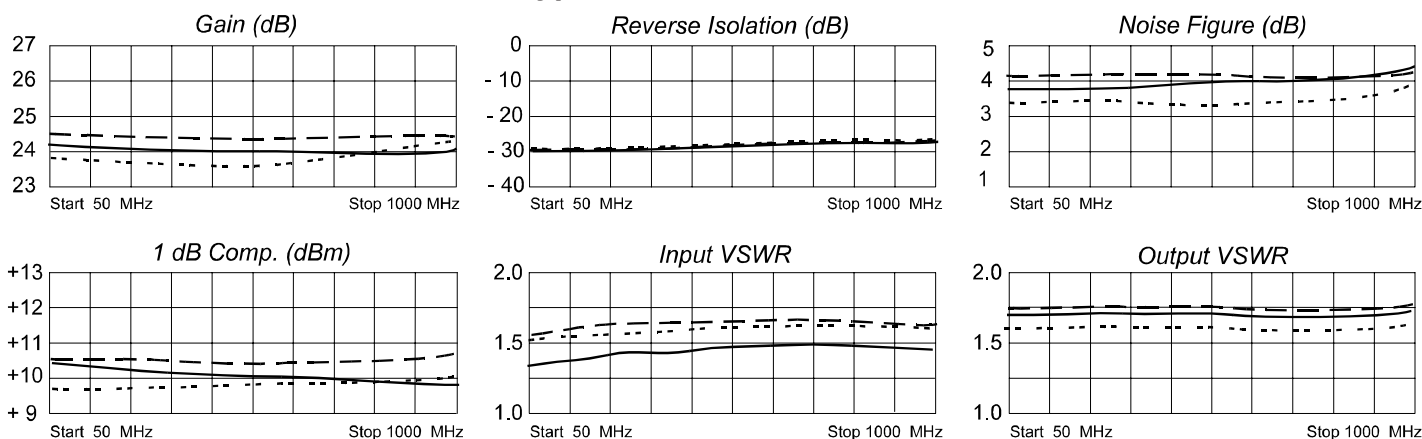
Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point +46 dBm (Typ.)
 Second Order Two Tone Intercept Point +40 dBm (Typ.)
 Third Order Two Tone Intercept Point +23 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 + 8 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

Linear S-Parameters

Freq. MHz	---S11---		---S21---		---S12---		---S22---	
	Mag	Deg	Mag	Deg	Mag	Deg	Mag	Deg
50	.01	30	16.83	-10	.02	-7	.09	172
100	.00	-34	16.85	-23	.02	6	.09	176
200	.01	170	16.84	-49	.02	9	.10	174
400	.04	117	16.99	-99	.02	8	.12	159
600	.06	78	16.75	-151	.03	5	.13	142
800	.03	31	16.24	156	.03	-6	.14	143
1000	.08	-166	15.81	100	.03	-10	.24	138

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