

RF AMPLIFIER

MODEL TM3065

Available as: TM3065, 4 Pin TO-8 (T4)
TN3065, 4 Pin Surface Mount (SM3)
BX3065, Connectorized Housing (H1)

Features

- High Gain: 28 dB Typical
- Output Power: +15 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	5 - 200 MHz	5 - 200 MHz
Gain (dB)	28	26 Min.
Power @ 1 dB Comp. (dBm)	+15	+14 Min.
Reverse Isolation (dB)	-34	-33 Max.
VSWR In	<1.75:1	2.0:1 Max.
Out	<1.5:1	2.0:1 Max.
Noise Figure (dB)	5.5	6.0 Max.
Power Vdc	+15	+15
mA	63	68 Max.

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

Typical Intermodulation Performance at 25 °C

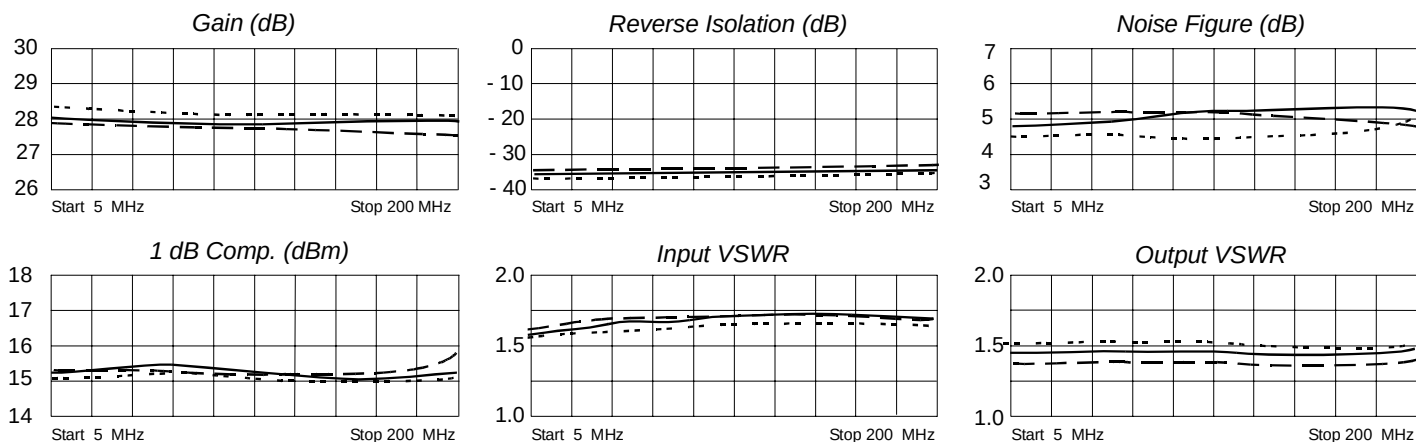
Second Order Harmonic Intercept Point +56 dBm (Typ.)
Second Order Two Tone Intercept Point +52 dBm (Typ.)
Third Order Two Tone Intercept Point +30 dBm (Typ.)

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 + 13 dBm
Short Term RF Input Power 50 Milliwatts (1 Minute Max.)
Maximum Peak Power 0.5 Watt (3 µsec Max.)

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

Typical Performance Data



Linear S-Parameters

Freq. MHz	---S11---	---S21---	---S12---	---S22---
	Mag Deg	Mag Deg	Mag Deg	Mag Deg
5	.09 4	27.20 7	.0112 7	.12 21
15	.09 -3	26.92 -4	.0134 8	.13 7
25	.08 0	26.83 -8	.0163 -2	.13 -2
50	.08 -3	26.70 -18	.0117 -3	.13 -10
100	.08 3	26.78 -37	.0143 -3	.13 -28
150	.08 6	27.02 -56	.0142 -10	.12 -45
200	.07 9	27.36 -75	.0157 -16	.12 -61

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