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 ºC to + 85 ºC
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 ºC	MIN/MAX Ta = -55 ºC to +85 ºC
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 º 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.)

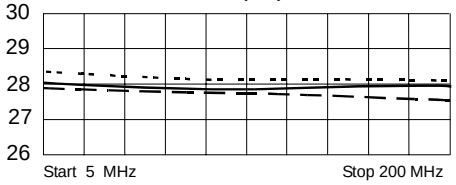
Maximum Ratings

Ambient Operating Temperature ..... -55ºC to + 100 ºC
Storage Temperature ..... -62ºC to + 125 ºC
Case Temperature ..... + 125 ºC
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.)

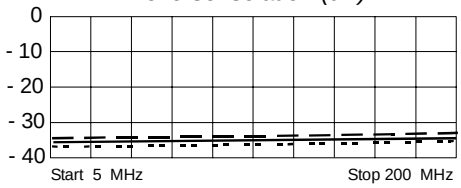
Legend ——— *+ 25 ºC* – – – *+ 85 ºC* - - - - - - *-55 ºC*

Typical Performance Data

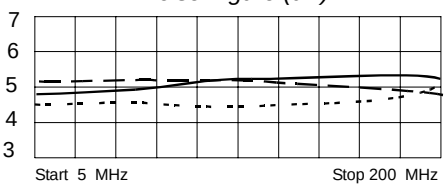
Gain (dB)



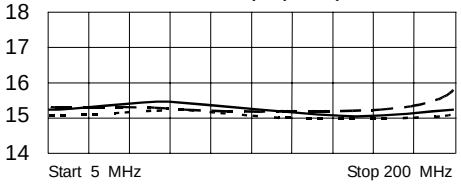
Reverse Isolation (dB)



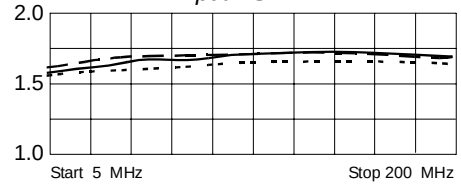
Noise Figure (dB)



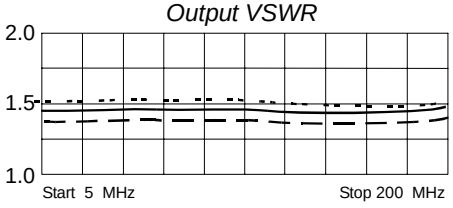
1 dB Comp. (dBm)



Input VSWR



Output VSWR



Linear S-Parameters

Freq. MHz	----S11---- Mag	Deg	----S21---- Mag	Deg	----S12---- Mag	Deg	----S22---- 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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