RF AMPLIFIER
MODEL *TM3035*

Available as: TM3035, 4 Pin TO-8 (T4)
TN3035, 4 Pin Surface Mount (0.450" Sq.)
FP3035, 4 Pin Flatpack (0.500" Sq.)
PN3035, 4 Pin Surface Mount (0.375" Sq.)
BX3035, Connectorized Housing (H1L)

Features

- High Output Power: +28.5 dBm Typical
- Medium Gain: 16 dB Typical
- Operating Temp. -55 ºC to +100 ºC
- Environmental Screening Available

Typical Intermodulation Performance at 25 º C

Second Order Harmonic Intercept Point ..... +56 dBm (Typ.)
Second Order Two Tone Intercept Point ..... +50 dBm (Typ.)
Third Order Two Tone Intercept Point ..... +45 dBm (Typ.)

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 ºC	MIN/MAX Ta = -55 ºC to +100 ºC
Frequency	80 - 120 MHz	80 - 120 MHz
Gain (dB)	16	15 Min.
Power @ 1 dB Comp. (dBm)	+28.5	+27 Min.
Reverse Isolation (dB)	-22.5	-21.5 Max.
VSWR In Out	1.8:1 1.25:1	2.0:1 Max. 2.0:1 Max.
Noise Figure (dB)	3.0	5.0 Max.
Power Vdc mA	+11 170	+11 180 Max.

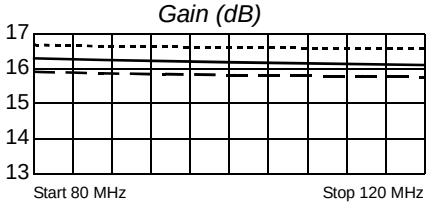
Note: Care should always be taken to effectively ground the case of each unit.
Revision 4/11/2012

Absolute Maximum (No Damage) Ratings

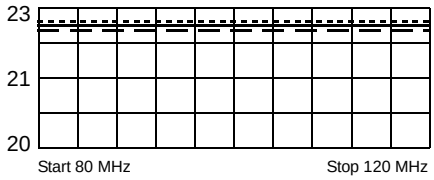
Ambient Operating Temperature ..... -55ºC to +110 ºC
Storage Temperature ..... -62ºC to +125 ºC
Case Temperature ..... +125 ºC
DC Voltage ..... +15 Volts
Continuous RF Input Power ..... +20 dBm
Short Term RF Input Power.... 200 Milliwatts (1 Minute Max.)
Maximum Peak Power..... 0.5 Watt (3 µsec Max.)

Typical Performance Data

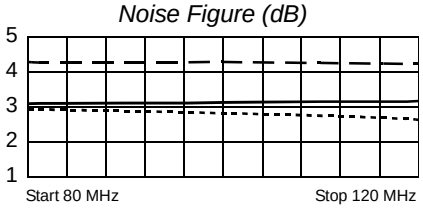
Gain (dB)



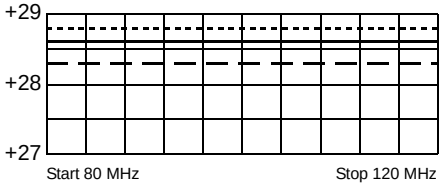
Reverse Isolation (dB)



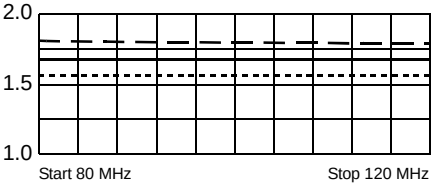
Noise Figure (dB)



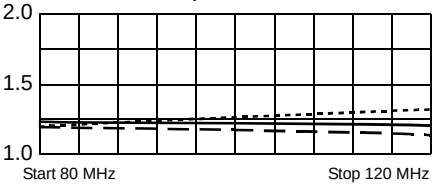
1 dB Comp. (dBm)



Input VSWR



Output VSWR



Legend ——— *+25 ºC* — — — — *+100 ºC* - - - - - - *-55 ºC*

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