

RF AMPLIFIER

MODEL *TM3073*

Available as: TM3073, 4 Pin TO-8 (T4)
 TN3073, 4 Pin Surface Mount (SM3)
 FP3073, 4 Pin Flatpack (FP4)
 BX3073, Connectorized Housing (H1)

Features

- Low Noise Figure: 2.5 dB Typical
- Medium Output Power: +17.0 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	1400 - 1800 MHz	1400 - 1800 MHz
Gain (dB)	15	14 Min.
Power @ 1 dB Comp. (dBm)	+17.0	+16.0 Min.
Reverse Isolation (dB)	-21	-19 Max.
VSWR In	1.70:1	2.0:1 Max.
Out	1.70:1	2.0:1 Max.
Noise Figure (dB)	2.5	3.0 Max.
Power Vdc	+15	+15
mA	63	70 Max.

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

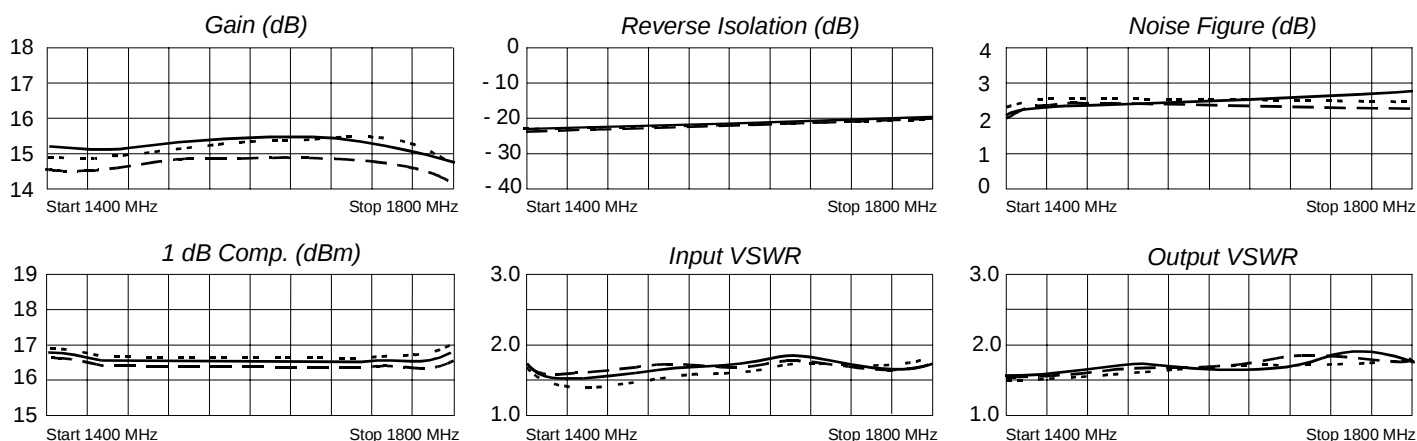
Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point.....+42 dBm (Typ.)
 Second Order Two Tone Intercept Point.....+38 dBm (Typ.)
 Third Order Two Tone Intercept Point.....+28 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.)

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
1400	.24	53	6.38	-111	.0565	155	.08	12
1500	.21	33	6.34	-139	.0608	132	.10	-10
1600	.15	14	6.38	-167	.0649	107	.13	-40
1700	.08	5	6.42	163	.0696	83	.14	-76
1800	.05	98	6.22	132	.0762	57	.16	-117

www.DataSheet4U.com



Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, Florida 32905 · PH (888) 553-7531 · Fax (888) 553-7532 05/03/05

www.spectrummicrowave.com Spectrum Microwave (Europe) · 2707 Black Lake Place · Philadelphia, Pa. 19154 · PH (215) 464-4000 · Fax (215) 464-4001

www.DataSheet4U.com