

RF AMPLIFIER

MODEL *TM7371*

Available as: TM7371, 4 Pin TO-8 (T4)
 TN7371, 4 Pin Surface Mount (SM3)
 FP7371, 4 Pin Flatpack (FP4)
 BX7371, Connectorized Housing (H1)

Features

- Low Noise Figure: 1.75 dB Typical
- High Gain: 18 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	1-300 Hz	1-300 MHz
Gain (dB)	18	16.0 Min.
Power @ 1 dB Comp. (dBm)	+2	+1.0 Min.
Reverse Isolation (dB)	-21	-20 Max.
VSWR In	<1.25:1	2.0:1 Max.
Out	<1.25:1	2.0:1 Max.
Noise Figure (dB)	1.75	2.5 Max.
Power Vdc	+15	+15 Min.
mA	9	12 Max.

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

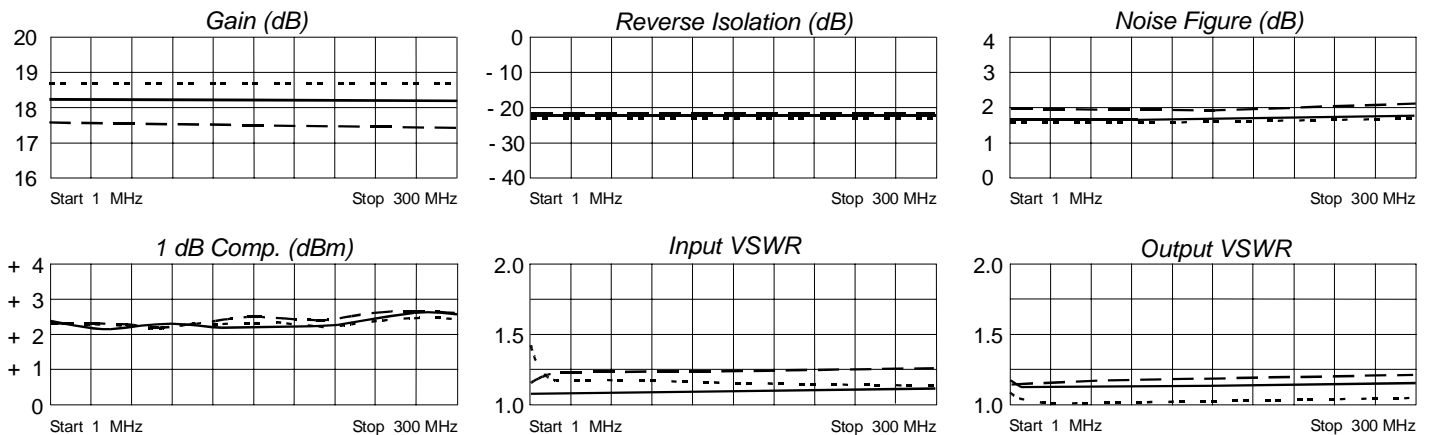
Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point..... +20 dBm (Typ.)
 Second Order Two Tone Intercept Point..... +15 dBm (Typ.)
 Third Order Two Tone Intercept Point..... +14 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
1	.06	- 92	8.31	-165	.08	18	.07	- 88
5	.02	- 14	8.35	-178	.08	4	.03	- 17
50	.02	- 6	8.32	170	.08	- 0	.03	- 5
100	.03	- 18	8.29	159	.08	- 0	.03	- 23
150	.03	- 27	8.28	149	.08	- 4	.04	- 37
200	.04	- 38	8.26	138	.08	- 4	.04	- 47
250	.04	- 52	8.27	127	.08	- 5	.05	- 64
300	.05	- 74	8.25	117	.08	- 7	.05	- 76



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