

RF AMPLIFIER

MODEL *TM7379*

Available as: TM7379, 4 Pin TO-8 (T4)
 TN7379, 4 Pin Surface Mount (SM3)
 FP7379, 4 Pin Flatpack (FP4)
 BX7379, Connectorized Housing (H1)

Features

- High Output Power: +23 dBm Typical
- Medium Gain: 14 dB Typical
- Operating Temp. - 55 °C to +85 °C
- Environmental Screening Available

Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point..... +53 dBm (Typ.)
 Second Order Two Tone Intercept Point..... +47 dBm (Typ.)
 Third Order Two Tone Intercept Point..... +38 dBm (Typ.)

Specifications

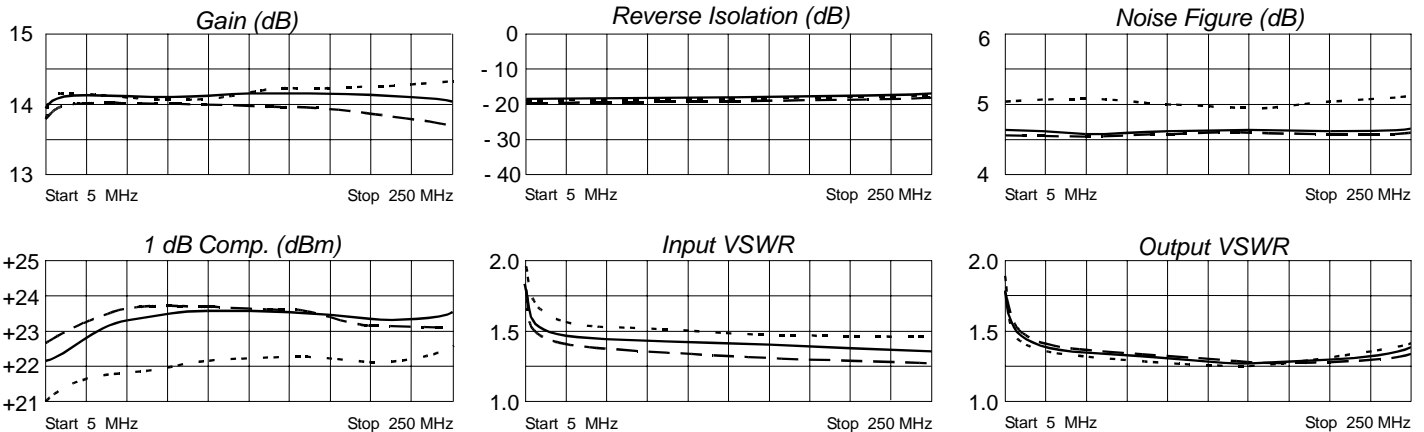
CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	5-250 MHz	5-250 MHz
Gain (dB)	14	12.5 Min.
Power @ 1 dB Comp. (dBm)	+23	+21.0 Min.
Reverse Isolation (dB)	-16	-15 Max.
VSWR In	<1.5:1	2.0:1 Max.
Out	<1.5:1	2.0:1 Max.
Noise Figure (dB)	4.5	6.0 Max.
Power Vdc	+12	+12 Min.
mA	88	100 Max.

Maximum Ratings

Ambient Operating Temperature -55°C to + 100 °C
 Storage Temperature -62°C to + 125 °C
 Case Temperature + 125 °C
 DC Voltage + 15 Volts
 Continuous RF Input Power + 18 dBm
 Short Term RF Input Power 50 Milliwatts (1 Minute Max.)
 Maximum Peak Power 0.5 Watt (3 μsec Max.)

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

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
5	.29	-117	4.97	-159	.12	19	.28	142
10	.21	-145	5.04	-172	.12	10	.20	151
50	.18	169	5.08	166	.12	5	.15	160
100	.18	145	5.07	149	.13	6	.13	149
150	.17	124	5.09	132	.14	6	.12	147
200	.16	107	5.10	114	.15	5	.12	151
250	.14	89	5.02	96	.16	3	.16	154



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