

RF AMPLIFIER

MODEL *TM6134*

Available as: TM6134, 4 Pin TO-8 (T4)
 TN6134, 4 Pin Surface Mount (SM3)
 FP6134, 4 Pin Flatpack (FP4)
 BX6134, Connectorized Housing (H1)

Features

- High Output Power: +26 dBm Typ.
- High Dynamic Range: $I_{p3} = +39$ dBm Typ.
- Operating Temp. - 55 °C to +85 °C
- Environmental Screening Available

Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point +58 (Typ.)
 Second Order Two Tone Intercept Point +54 (Typ.)
 Third Order Two Tone Intercept Point +39 (Typ.)

Specifications

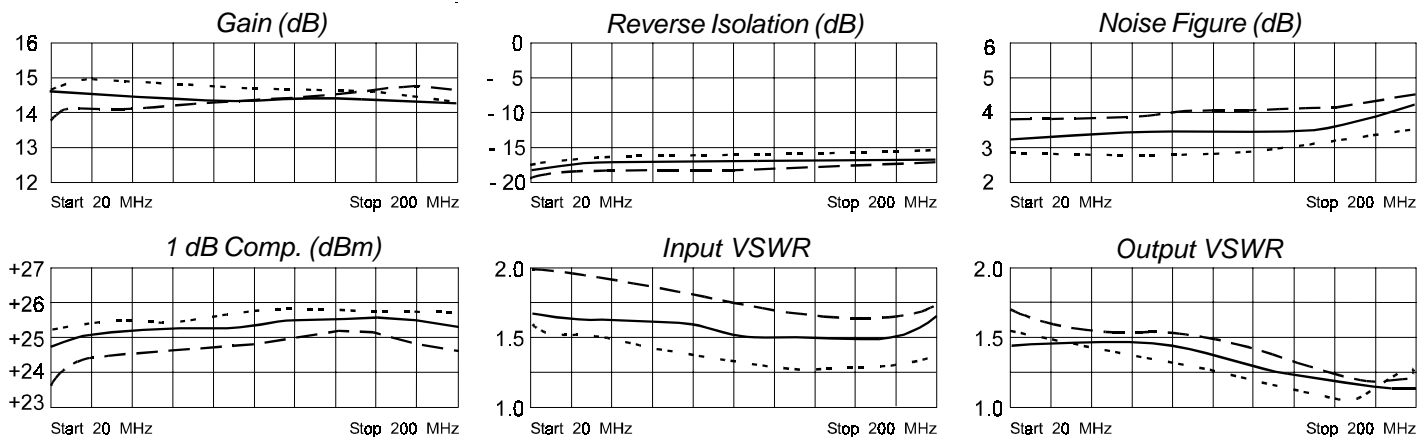
CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	20 - 200 MHz	20 - 200 MHz
Gain (dB)	14.3	12.5 Min.
Power @ 1 dB Comp. (dBm)	+26	+23.0 Min.
Reverse Isolation (dB)	- 17	- 15 Max.
VSWR In	1.60:1	2.5:1 Max.
Out	1.35:1	2.5:1 Max.
Noise figure (dB)	4	6.0 Max.
Power Vdc	+15	+15
mA	90	110 Max.

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 + 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
20	.25	-179	5.27	180	.13	179	.17	7
50	.24	175	5.23	185	.13	163	.17	- 10
100	.23	173	5.19	146	.13	144	.13	- 34
150	.26	178	5.17	127	.14	125	.07	- 80
200	.33	178	5.11	108	.15	107	.08	162

Amplifonix

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