

RF AMPLIFIER

MODEL TM6334

Available as: TM6134, 4 Pin TO-8 (T4)
 TN6134-3 4 Pin Surface Mount (SM3)
 FP6134-4, 4 Pin Flatpack (FP4)
 BX6134, Connectorized Housing (H1)
 PN6334, Reduced Size Surface Mount (SM11)

Features

- High Output Power: +26 dBm Typ.
- High Dynamic Range: IP3 = +41 dBm Typ.
- 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	20-200MHz	20-200MHz
Gain (dB)	14	12.5 Min.
Power @ 1 dB Comp. (dBm)	+26	+23.5 Min.
Reverse Isolation (dB)	+20	-18 Max.
VSWR In	<1.8:1	2.5:1 Max.
VSWR Out	<1.8:1	2.5:1 Max.
Noise figure (dB)	3.5	5.0 Max.
Power Vdc	+12	+12
mA	95	105 Max.

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

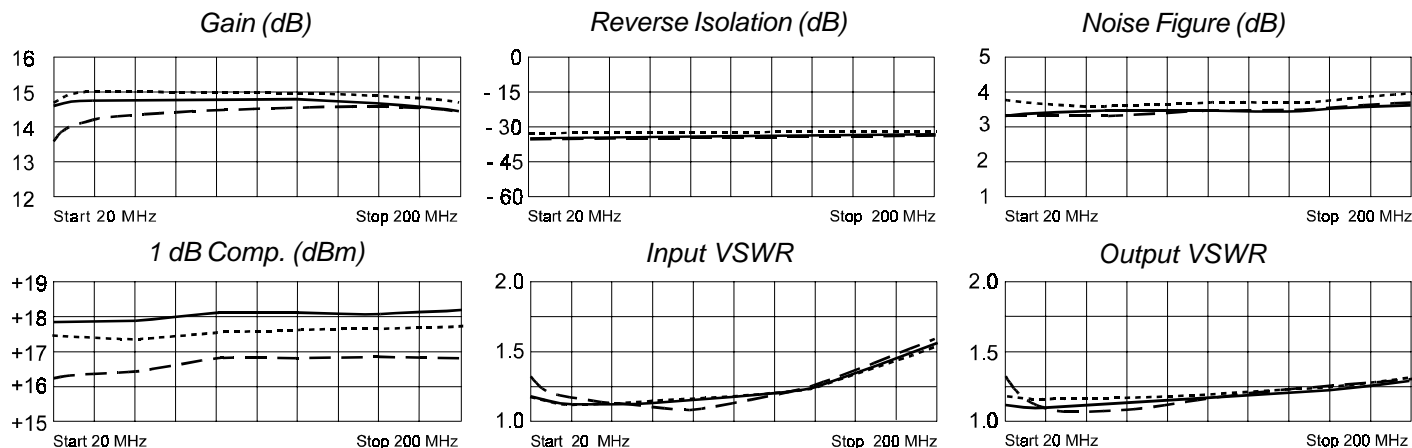
Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point +56 (Typ.)
 Second Order Two Tone Intercept Point +50 (Typ.)
 Third Order Two Tone Intercept Point +41 (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 +6 dBm
 Short Term RF Input Power 20 Milliwatts
 (1 Minute Max.)
 Maximum Peak Power 0.2Watt
 (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
20	.14	-9	5.04	-175	.08	-177	.29	15
50	.16	-28	5.12	170	.08	166	.29	-5
100	.20	-56	5.13	153	.08	142	.28	-23
150	.25	-81	5.07	137	.09	123	.25	-43
200	.30	-101	4.98	122	.09	106	.22	-65



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