RF AMPLIFIER
MODEL *TM6334*

Available as: TM6334, 4 Pin TO-8 (T4)
TN6334, 4 Pin Surface Mount (SM3)
FP6334, 4 Pin Flatpack (FP4)
BX6334, Connectorized Housing (H1)

Features

- High Output Power: +26 dBm Typical
- IP3: +41 dBm Typical
- Operating Temp. - 55 ºC to +85 ºC
- Environmental Screening Available

Typical Intermodulation Performance at 25 º C

Second Order Harmonic Intercept Point ..... +56 dBm (Typ.)
Second Order Two Tone Intercept Point ..... +50 dBm (Typ.)
Third Order Two Tone Intercept Point ..... +41 dBm (Typ.)

Specifications

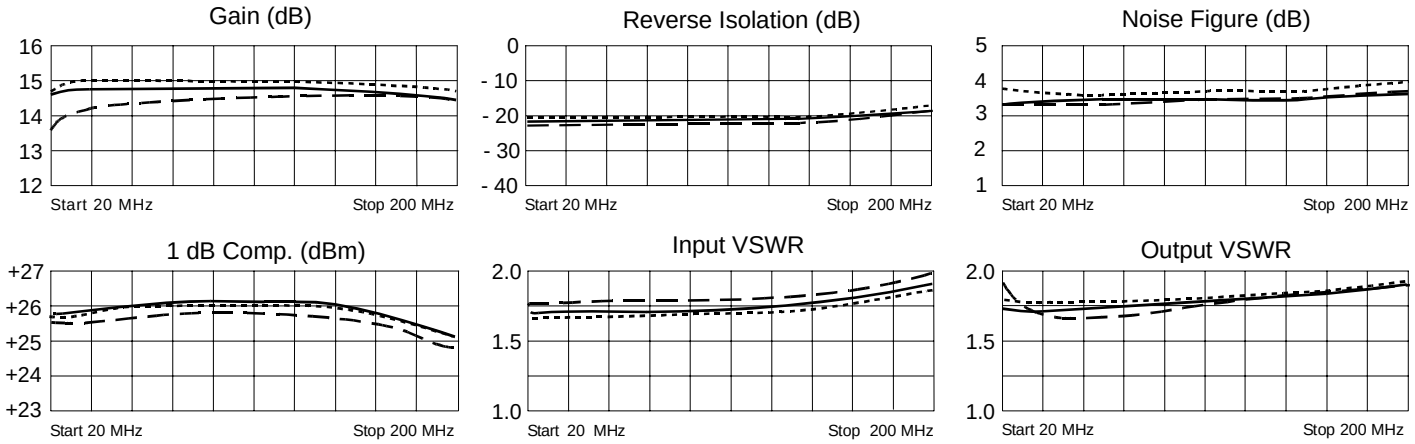
CHARACTERISTIC	TYPICAL Ta= 25 ºC	MIN/MAX Ta = -55 ºC to +85 ºC
Frequency	20 - 200 MHz	20 - 200 MHz
Gain (dB)	14	12.5 Min.
Power @ 1 dB Comp. (dBm)	+26	+23.5 Min.
Reverse Isolation (dB)	- 20	-18 Max.
VSWR In	<1.8:1	2.5:1 Max.
VSWR Out	<1.8:1	2.5:1 Max.
Noise Figure (dB)	3.5	5.0 Max.
Power Vdc	+12	+12 Min.
Power mA	95	105 Max.

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

Maximum Ratings

Ambient Operating Temperature ..... -55ºC to + 100 ºC
Storage Temperature ..... -62ºC to + 125 ºC
Case Temperature ..... + 125 ºC
DC Voltage ..... + 15 Volts
Continuous RF Input Power ..... + 6 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 ºC* – – – *+ 85 ºC* - - - - - - *-55 ºC*

Linear S-Parameters

FREQ. MHz	S11 Mag	S11 Deg	S21 Mag	S21 Deg	S12 Mag	S12 Deg	S22 Mag	S22 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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