

# 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 °C to +85 °C
- Environmental Screening Available

### Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
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.
Out	<1.8:1	2.5:1 Max.
Noise Figure (dB)	3.5	5.0 Max.
Power Vdc	+12	+12 Min.
mA	95	105 Max.

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

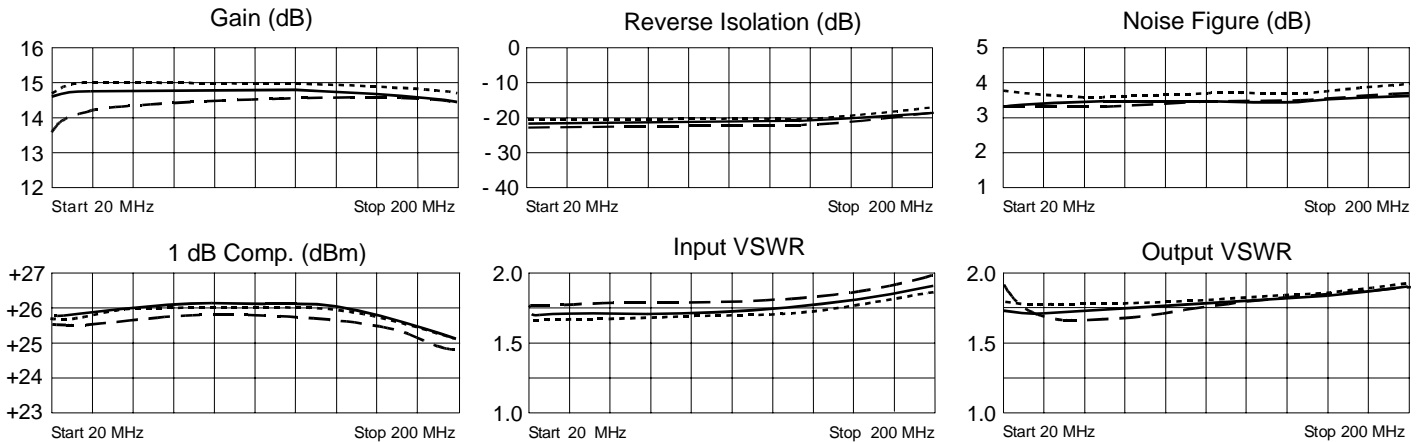
### Typical Intermodulation Performance at 25 ° C

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