

RF AMPLIFIER

MODEL *TM9352*

Available as: TM9352, 4 Pin TO-8 (T4)
 TN9352, 4 Pin Surface Mount (SM3)
 FP9352, 4 Pin Flatpack (FP4)
 BX9352, Connectorized Housing (H1)
 PN9352, Reduced Size Surface Mount (SM11)

Features

- Low 5 Volt Bias
- Medium Gain: +10 dB 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	5 - 2000 MHz	5 - 2000 MHz
Gain (dB)	10	8.5 Min.
Power @ 1 dB Comp. (dBm)	+8.0	+5.0 Min.
Reverse Isolation (dB)	-13	-12 Max.
VSWR In	1.5:1	2.0:1 Max.
Out	1.75:1	2.0:1 Max.
Noise figure (dB)	4.0	5.5 Max.
Power Vdc	+5	+5
mA	18	20 Max.

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

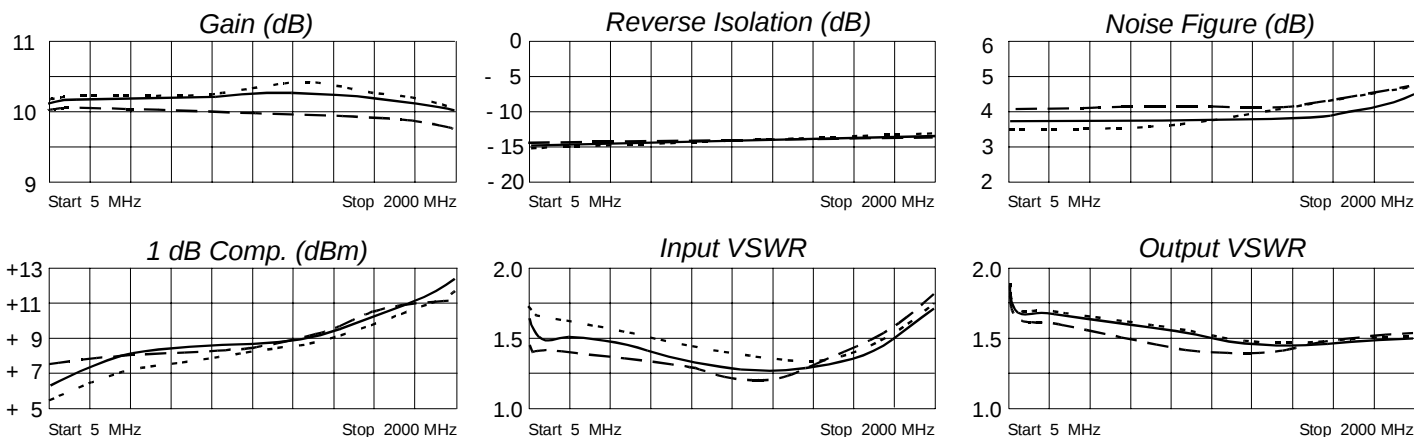
Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point +33 dBm (Typ.)
 Second Order Two Tone Intercept Point +28 dBm (Typ.)
 Third Order Two Tone Intercept Point +20 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 + 10 Volts
 Continuous RF Input Power + 13 dBm
 Short Term RF Input Power ... 100 Milliwatts (1 Minute Max.)
 Maximum Peak Power 0.2 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
5	.23	-140	3.19	-167	.16	15	.28	158
100	.20	174	3.25	173	.16	2	.21	164
250	.20	165	3.24	159	.17	2	.21	144
500	.18	144	3.25	138	.18	3	.21	111
750	.16	130	3.25	118	.19	2	.19	73
1000	.12	127	3.27	97	.20	- 0	.19	37
1250	.11	135	3.30	76	.21	- 5	.20	- 2
1500	.13	146	3.32	55	.21	- 9	.20	- 36
1750	.19	144	3.29	32	.22	-12	.20	- 71
2000	.27	126	3.24	9	.22	-15	.21	- 99



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Rev.
2/22/07

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