

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.

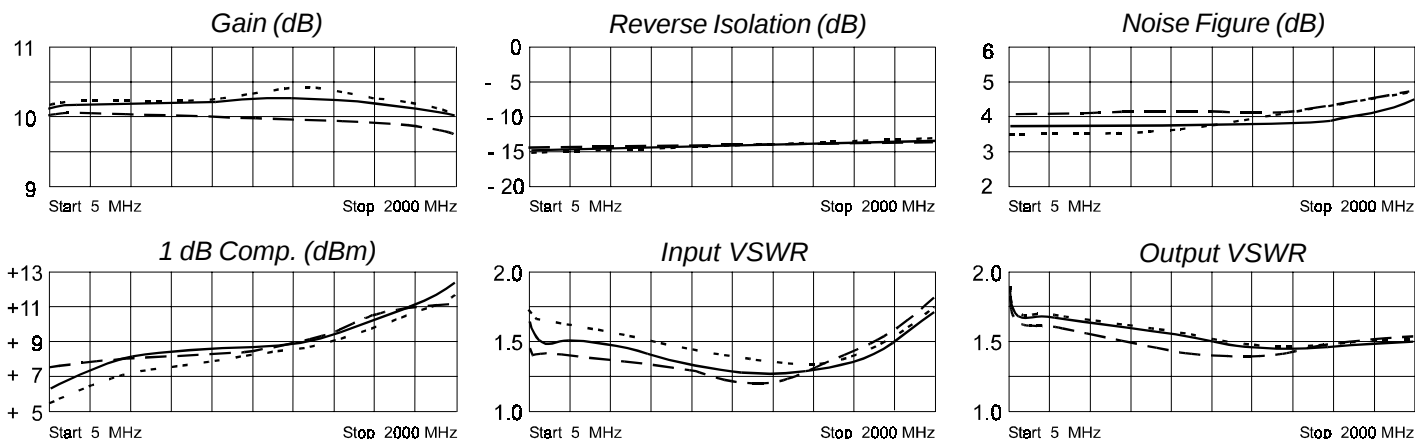
Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +33 (Typ.)
 Second Order Two Tone Intercept Point +28 (Typ.)
 Third Order Two Tone Intercept Point +20 (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	Mag	S11 Deg	Mag	S21 Deg	Mag	S12 Deg	Mag	S22 Deg
10	.22	-21	3.33	-170	.1212	5	.11	160
100	.20	-11	3.35	175	.1205	-3	.10	174
200	.20	-20	3.34	168	.1194	-6	.09	176
400	.21	-37	3.33	155	.1207	-12	.09	175
600	.22	-54	3.32	143	.1224	-19	.08	179
800	.23	-69	3.34	130	.1215	-27	.08	-180
1000	.24	-84	3.36	117	.1244	-33	.08	-177
1200	.25	-96	3.39	104	.1240	-43	.08	-174
1400	.25	-111	3.41	91	.1275	-50	.09	-176
1600	.25	-125	3.47	77	.1270	-59	.08	179
1800	.24	-143	3.56	63	.1321	-72	.06	172
2000	.21	-174	3.57	46	.1313	-81	.04	173

Amplifonix

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