RF AMPLIFIER MODEL *TM9322*

Available as: TM9322, 4 Pin TO-8 (T4)
TN9322, 4 Pin Surface Mount (SM3)
FP9322, 4 Pin Flatpack (FP4)
BX9322, Connectorized Housing (H1)

Features

- Gain: 10 dB Typical
- Output Power: +10 dBm Typical
- Operating Temp. - 55 ºC to +85 ºC
- Environmental Screening Available

Typical Intermodulation Performance at 25 º C

Second Order Harmonic Intercept Point ..... +41 dBm (Typ.)
Second Order Two Tone Intercept Point ..... +35 dBm (Typ.)
Third Order Two Tone Intercept Point ..... +23 dBm (Typ.)

Specifications

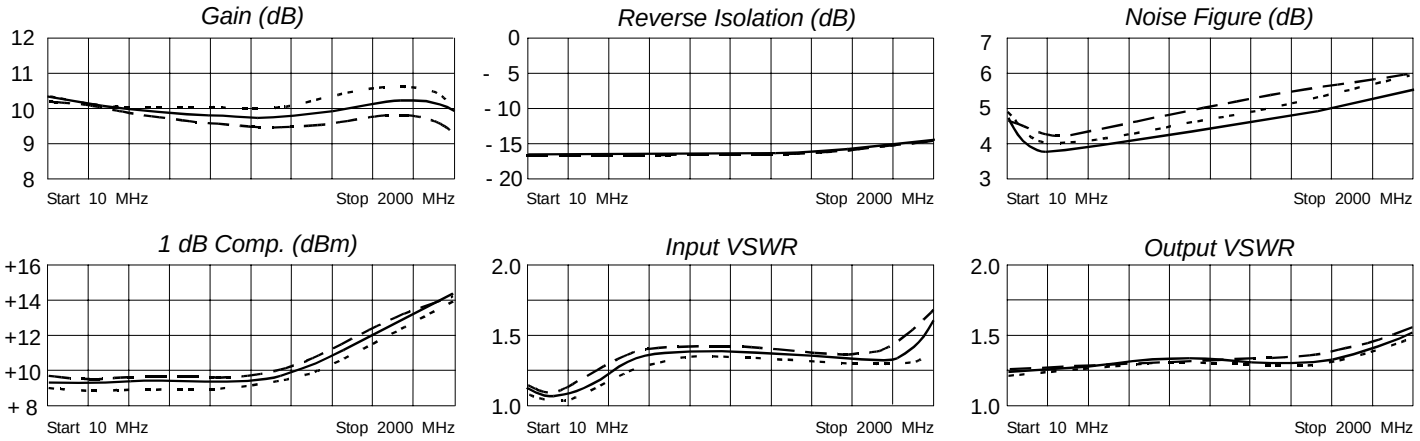
CHARACTERISTIC	TYPICAL Ta= 25 ºC	MIN/MAX Ta = -55 ºC to +85 ºC
Frequency	10 - 2000 MHz	10 - 2000 MHz
Gain (dB)	10.0	8.5 Min.
Power @ 1 dB Comp. (dBm)	+9.0	+7.5 Min.
Reverse Isolation (dB)	-16	-13 Max.
VSWR In Out	<1.5:1 <1.5:1	2.0:1 Max. 2.0:1 Max.
Noise figure (dB)	5.0	6.5 Max.
Power Vdc mA	+15 25	+15 29 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 ..... + 18 Volts
Continuous RF Input Power ..... + 13 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
10	.07	- 9	3.29	-180	.15	1	.07	-178
100	.07	- 30	3.25	168	.15	- 4	.08	153
200	.08	- 57	3.22	156	.15	- 7	.08	130
400	.10	- 99	3.13	133	.15	- 16	.10	88
600	.12	-134	3.06	112	.15	- 24	.12	53
800	.14	-160	3.01	90	.15	- 31	.13	27
1000	.16	173	2.97	69	.15	- 40	.13	- 2
1200	.16	144	3.02	47	.15	- 47	.13	- 33
1400	.16	109	3.10	24	.16	- 56	.12	- 71
1600	.16	65	3.17	- 1	.17	- 66	.13	-108
1800	.17	12	3.18	- 29	.18	- 77	.16	-151
2000	.23	- 36	3.01	- 61	.19	- 92	.19	170

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