

RF AMPLIFIER

MODEL *TM9325*

Available as: TM9325, 4 Pin TO-8 (T4)
 TN9325, 4 Pin Surface Mount (SM3)
 FP9325, 4 Pin Flatpack (FP4)
 BX9325, Connectorized Housing (H1)

Features

- Low Noise Figure: <3.5 dB Typical
- Medium Output Power: >+9 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	10 - 1500 MHz	10 - 1500 MHz
Gain (dB)	14	13.0 Min.
Power @ 1 dB Comp. (dBm)	+9	+7.5 Min.
Reverse Isolation (dB)	-17	-16 Max.
VSWR In	<1.5:1	2.0:1 Max.
Out	<1.75:1	2.0:1 Max.
Noise figure (dB)	<3.5	4.5 Max.
Power Vdc	+15	+15
mA	24	28 Max.

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

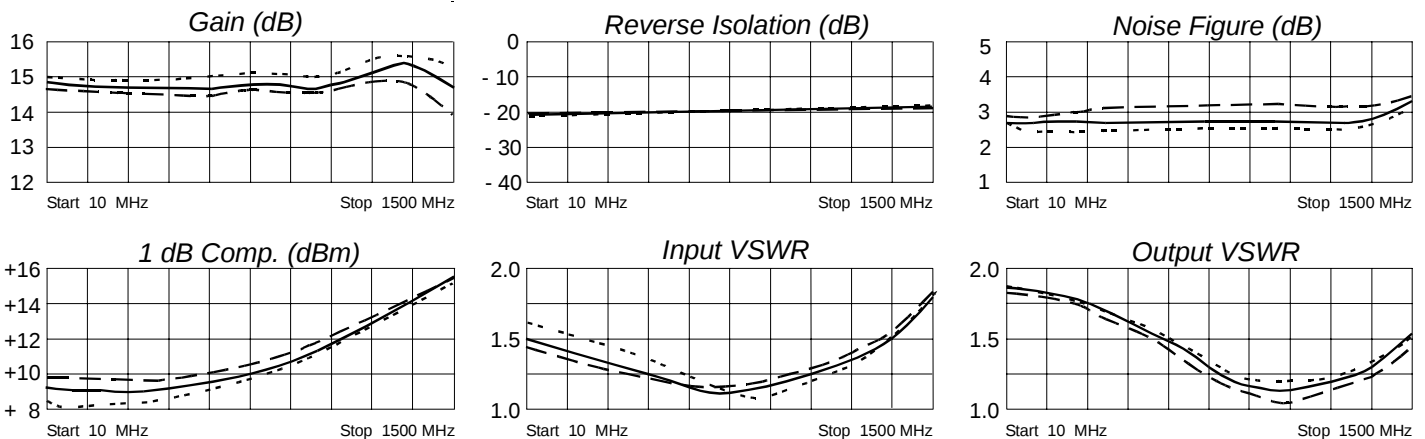
Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +36 dBm (Typ.)
 Second Order Two Tone Intercept Point +30 dBm (Typ.)
 Third Order Two Tone Intercept Point +22 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 + 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



Linear S-Parameters

FREQ. MHz	Mag S11	Deg S11	Mag S21	Deg S21	Mag S12	Deg S12	Mag S22	Deg S22
10	.19	-178	5.54	-180	.09	2	.30	-178
50	.19	175	5.53	173	.09	2	.30	174
100	.19	168	5.52	167	.10	-3	.29	168
250	.16	152	5.46	146	.10	-4	.27	146
500	.09	131	5.42	113	.11	-8	.22	111
750	.04	162	5.51	80	.11	-19	.13	70
1000	.11	-168	5.37	44	.12	-29	.05	72
1250	.17	125	5.73	4	.13	-41	.08	87
1500	.29	31	5.28	-51	.14	-61	.21	32



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