RF AMPLIFIER MODEL *TM9566*

Available as: TM9566, 4 Pin TO-8 (T4)
TN9566-3, 4 Pin Surface Mount (SM3)
FP9566-4, 4Pin Flatpack (FP4)
BX9566, Connectorized Housing (H1)

Features

- High Gain: 26 dB Typical
- Low Noise Figure: <3dB Typical
- Low 5 Volt Bias

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 ºC	MIN/MAX Ta = -55 ºC to +85 ºC
Frequency	5 - 1100 MHz	10 - 1000 MHz
Gain (dB)	26	24.5 Min.
Power @ 1 dB Comp. (dBm)	+0.5	-0.5 Min.
Reverse Isolation (dB)	- 35	- 34 Max.
VSWR In Out	<1.5:1 <1.75:1	2.0:1 Max. 2.0:1 Max.
Noise figure (dB)	<3.0	4.0 Max.
Power Vdc mA	+5 18	+5 20 Max.

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

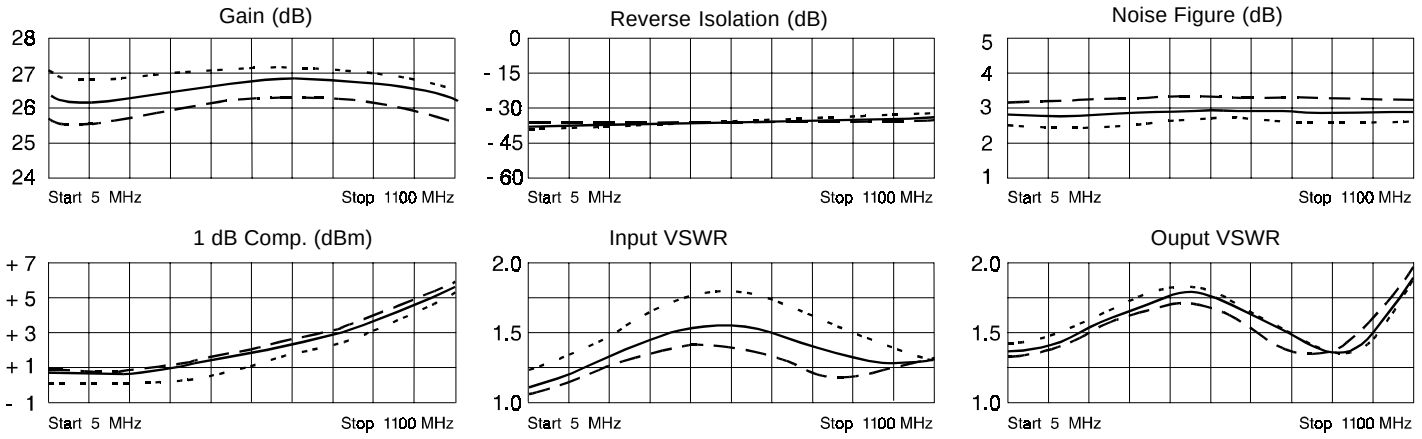
Typical Intermodulation Performance at 25 º C

Second Order Harmonic Intercept Point ..... +26 (Typ.)
Second Order Two Tone Intercept Point ..... +21 (Typ.)
Third Order Two Tone Intercept Point ..... +12 (Typ.)

Maximum Ratings

Ambient Operating Temperature ..... -55ºC to + 100 ºC
Storage Temperature ..... -62ºC to + 125 ºC
Case Temperature ..... + 125 ºC
DC Voltage ..... + 10 Volts
Continuous RF Input Power ..... + 20 dBm
Short Term RF Input Power ..... 200 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.	S11		S21		S12		S22	
MHz	Mag.	Deg.	Mag.	Deg.	Mag.	Deg.	Mag.	Deg.
5	.03	-38	21.05	4	.02	8	.21	-174
10	.04	-30	20.93	-8	.01	-1	.21	-175
50	.04	-67	20.48	-13	.01	3	.21	-176
100	.07	-83	20.67	-26	.01	-11	.22	-176
200	.13	-124	20.92	-52	.01	7	.24	-180
400	.19	-169	21.86	-105	.01	4	.29	165
600	.20	138	22.11	-162	.02	-1	.28	139
800	.14	62	22.13	139	.02	-1	.17	126
1000	.11	-44	21.70	75	.02	-25	.20	177
1200	.15	-144	18.54	-2	.02	2	.44	143

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