

RF AMPLIFIER

MODEL *TM9366*

Available as: TM9366, 4 Pin TO-8 (T4)
 TN9366, 4 Pin Surface Mount (SM3)
 FP9366, 4 Pin Flatpack (FP4)
 BX9366, Connectorized Housing (H1)

Features

- High Gain: 27.5 dB
- Low Noise: < 3.3 dB
- 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 - 1200 MHz	10 - 1000 MHz
Gain (dB)	27.5	25.5 Min.
Power @ 1 dB Comp. (dBm)	+15.5	+14 Min.
Reverse Isolation (dB)	-36	---
VSWR In	1.5:1	2.0:1 Max.
Out	1.5:1	2.0:1 Max.
Noise Figure * (dB)		
5-500 MHz	3.0	4.0 Max.
500-1000 MHz	3.3	4.5 Max.
Power Vdc	+15	+15
mA	63	70 Max.

Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point..... +50 dBm (Typ.)
 Second Order Two Tone Intercept Point.....+45 dBm (Typ.)
 Third Order Two Tone Intercept Point.....+28 dBm (Typ.)

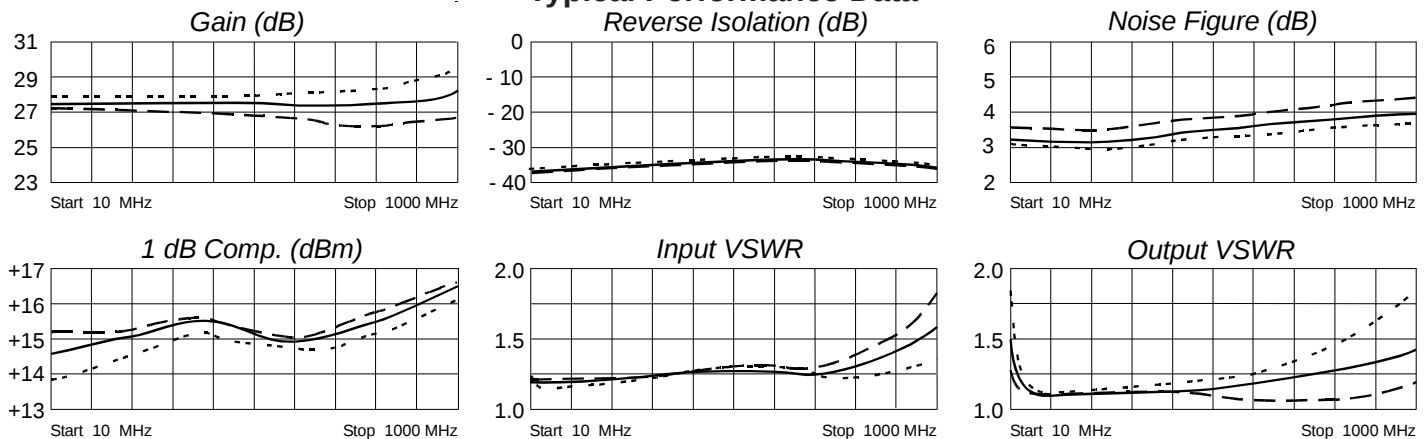
Maximum Ratings

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.)

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

Revision 11/4/2014

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	.18	33	22.77	23	.01	24	.36	113
10	.19	13	23.76	10	.01	12	.17	99
50	.18	- 10	23.90	- 9	.02	8	.05	76
100	.18	- 22	23.93	- 21	.01	2	.04	66
200	.17	- 47	24.04	- 44	.01	3	.04	54
400	.15	- 93	23.87	- 89	.01	- 6	.04	41
600	.12	-129	23.38	-134	.02	1	.05	75
800	.10	-130	23.59	-178	.02	-12	.12	91
1000	.24	-135	25.96	132	.02	-26	.31	62



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