

RF AMPLIFIER

MODEL *TM9328*

Available as: TM9328, 4 Pin TO-8 (T4)
 TN9328, 4 Pin (0.450" Sq.) Surface Mount (SM3)
 PN9328, 4 Pin (0.375" Sq.) SurfaceMount (SM11)
 FP9328, 4 Pin Flatpack (FP4)
 BX9328, Connectorized Housing (H1)

Features

- Low Noise Figure: 3.25 dB Typical
- 5 Volt Operation
- 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	12.5 Min.
Power @ 1 dB Comp. (dBm)	+12	+9.0 Min.
Reverse Isolation (dB)	-16	-14 Max.
VSWR In	1.6:1	2.0:1 Max.
VSWR Out	1.6:1	2.0:1 Max.
Noise figure (dB)	3.25	4.5 Max.
Power Vdc	+5	+5
mA	27	30 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 +37 dBm (Typ.)
 Second Order Two Tone Intercept Point +31 dBm (Typ.)
 Third Order Two Tone Intercept Point +23 dBm (Typ.)

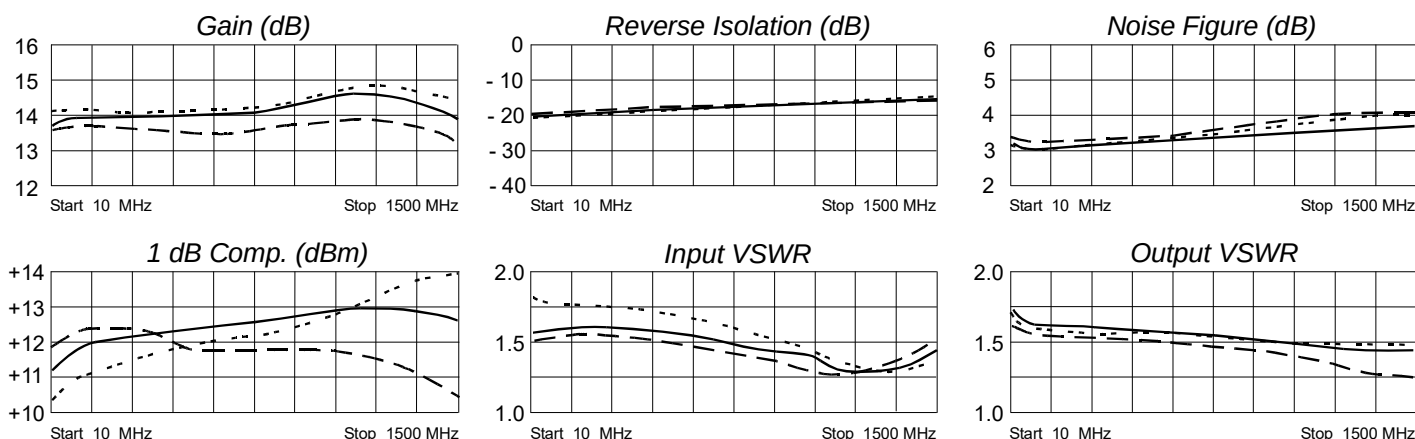
Maximum (NO DAMAGE THRESHOLD) Ratings

Ambient Operating Temperature -55°C to + 100 °C
 Storage Temperature -62°C to + 125 °C
 Case Temperature + 125 °C
 DC Voltage + 8 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.)

REVISION 7/9/2018

ECN: Addition of PN9328 Model Number

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
10	.22	-155	4.96	-173	.12	8	.25	164
50	.22	-179	5.06	176	.12	3	.22	164
100	.22	175	5.06	169	.12	2	.21	155
250	.21	158	5.06	150	.12	1	.22	128
500	.18	135	5.04	121	.14	- 0	.23	82
750	.13	117	5.12	91	.15	- 6	.24	42
1000	.08	121	5.21	59	.16	-14	.21	6
1250	.10	153	5.16	23	.17	-21	.17	- 26
1500	.16	146	4.70	- 17	.18	-29	.11	- 40



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