

Part/Keyword Search



Detailed Drawing



Printer Friendly
Datasheet

TN9333 / SN9333*

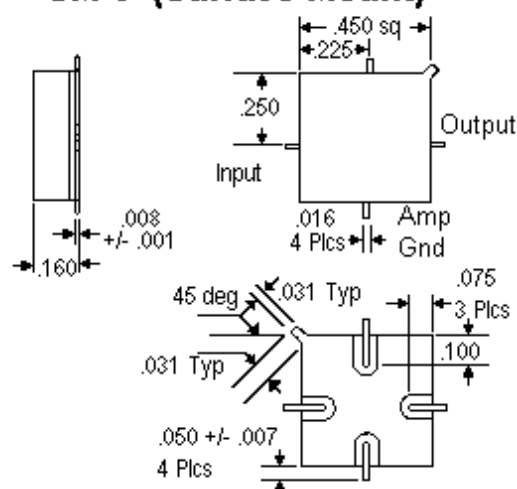
* Part number for additional environmental screening.

Performance Data

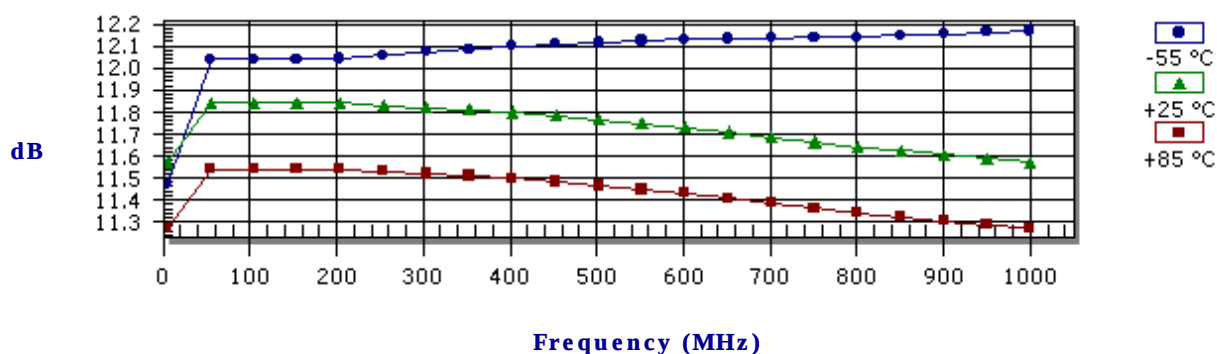
Frequency	5.0 - 1000.0 MHz
Gain	11.5 dB Typical 10.0 dB Min
Noise Figure	5.0 dB Typical 6.5 dB Max
P _{1dB}	16.0 dBm Typical 14.0 dBm Min
3 rd Order Intercept	30.0 dBm Typical
2 nd Order Intercept	44.0 dBm Typical
VSWR	1.2/2.0 Input Typ/Max 1.5/2.0 Output Typ/Max
Reverse Isolation	-15.0 dB Typical -13.0 dB Min
Power Supply	15.0 Volts 48.0 mA
Operating Temperature	-55.0 - 85.0 °C

Package Drawing

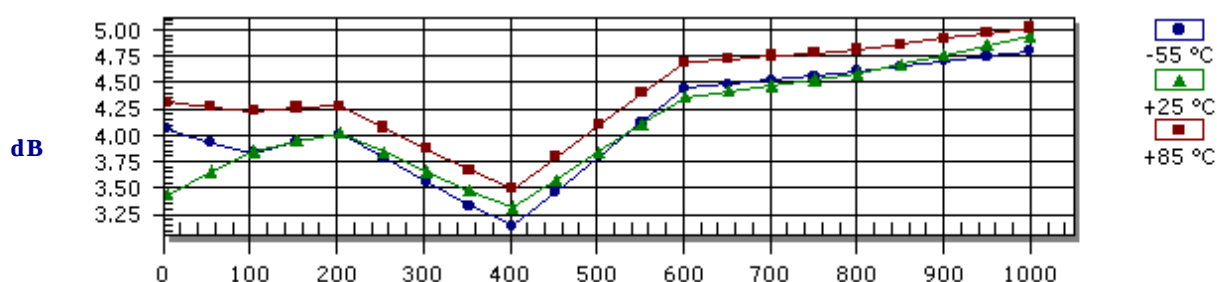
SM-3 (Surface Mount)



Gain

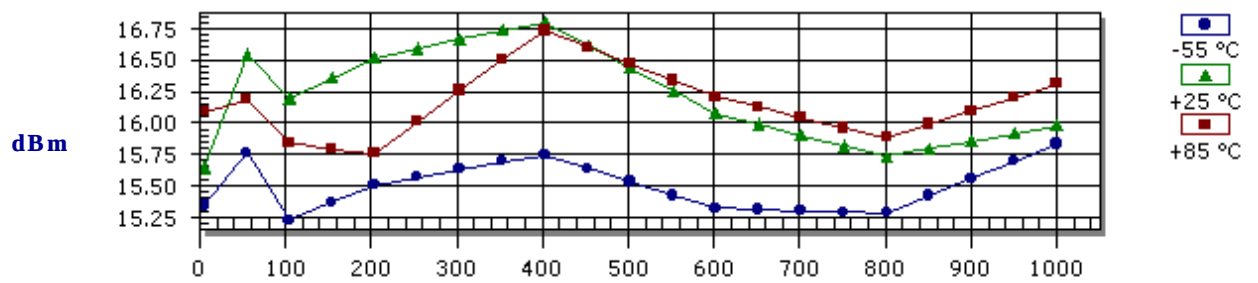


Noise Figure



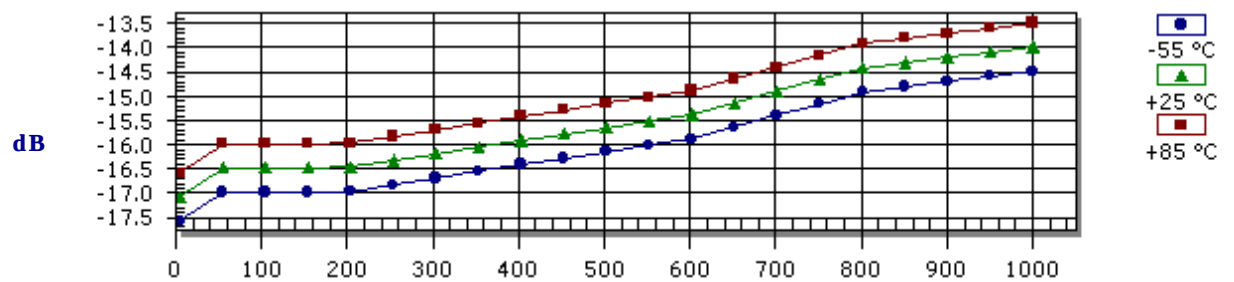
Frequency (MHz)

P_{1dB} Compression Point



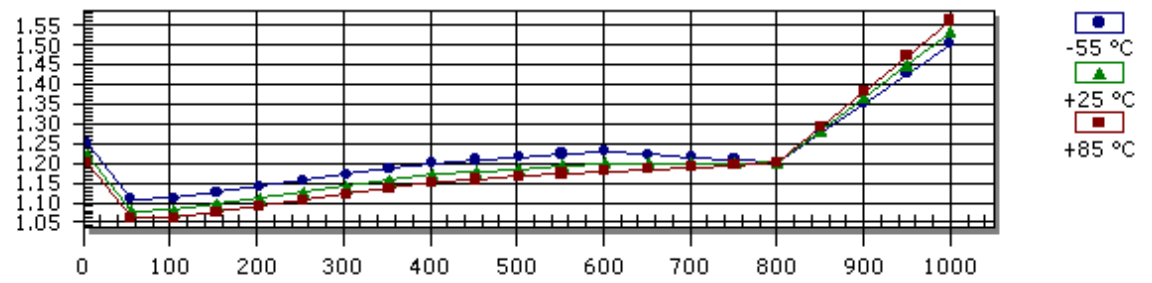
Frequency (MHz)

Reverse Isolation



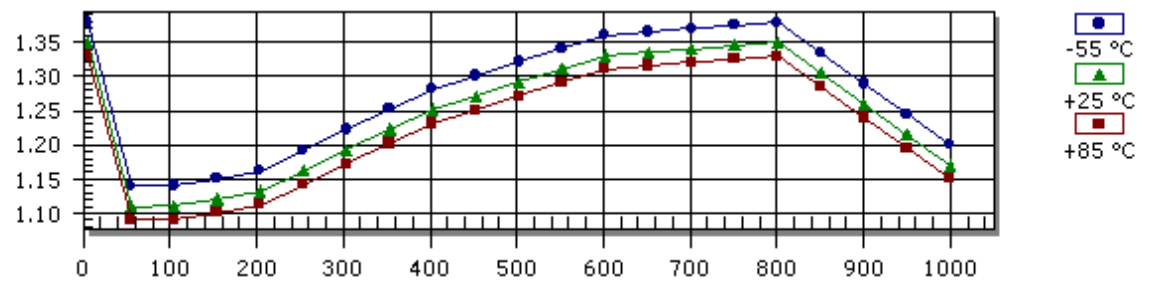
Frequency (MHz)

Input VSWR



Frequency (MHz)

Output VSWR



Frequency (MHz)

S-Parameters

Frequency	S11 Mag	S11 Ang	S21 Mag	S21 Ang	S12 Mag	S12 Ang	S22 Mag	S22 Ang
5.0	0.100	-97.00	3.790	-169.00	0.140	13.00	0.150	132.00
50.0	0.040	174.00	3.910	174.00	0.150	0.00	0.050	174.00
100.0	0.040	138.00	3.910	166.00	0.150	-1.00	0.050	-175.00
200.0	0.050	106.00	3.910	152.00	0.150	-3.00	0.060	-153.00
400.0	0.080	59.00	3.890	123.00	0.160	-9.00	0.110	-151.00
600.0	0.090	12.00	3.860	94.00	0.170	-16.00	0.140	-165.00
800.0	0.090	-67.00	3.820	64.00	0.190	-25.00	0.150	172.00
1000.0	0.210	-152.00	3.790	32.00	0.200	-39.00	0.080	150.00

Absolute Maximum Conditions

Maximum Operating Temperature	-55.0 - 100.0 °C	Maximum Storage Temperature	-62.0 - 125.0 °C
Maximum Case Temperature	125.0 °C	Maximum Supply Voltage	18.0 Volts
Continuous RF Input Power	13.0 dBm	Short Term RF Input Power (1 minute max)	50.0 mW
Maximum Peak Power (3 µsec max)	0.5 W		

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