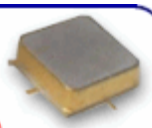


TN5125 / SN5125*

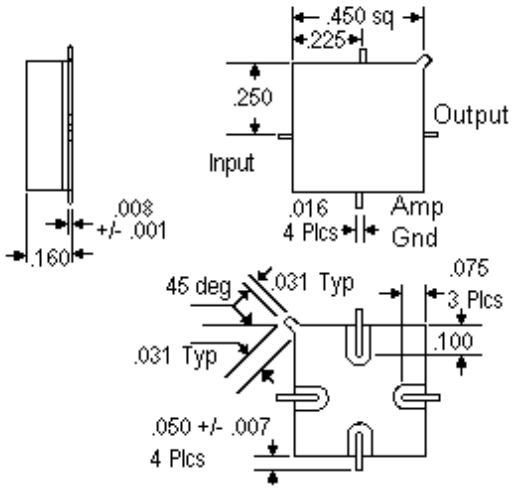
* Part number for additional environmental screening.

Performance Data

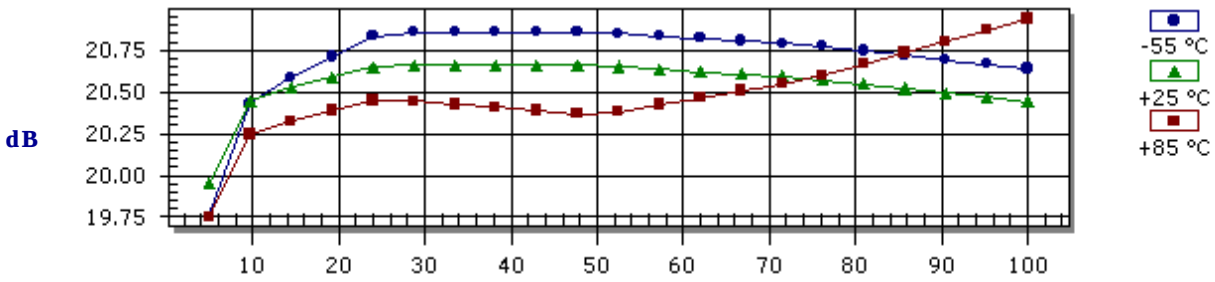
Frequency	10.0 - 100.0 MHz
Gain	20.5 dB Typical 19.5 dB Min
Noise Figure	2.0 dB Typical 3.0 dB Max
P_{1dB}	24.0 dBm Typical 22.5 dBm Min
3rd Order Intercept	40.0 dBm Typical
2nd Order Intercept	52.0 dBm Typical
VSWR	1.7/2.2 Input Typ/Max 1.4/2.2 Output Typ/Max
Reverse Isolation	-24.0 dB Typical -23.0 dB Min
Power Supply	15.0 Volts 80.0 mA
Operating Temperature	-55.0 - 85.0 °C

Package Drawing

SM-3 (Surface Mount)

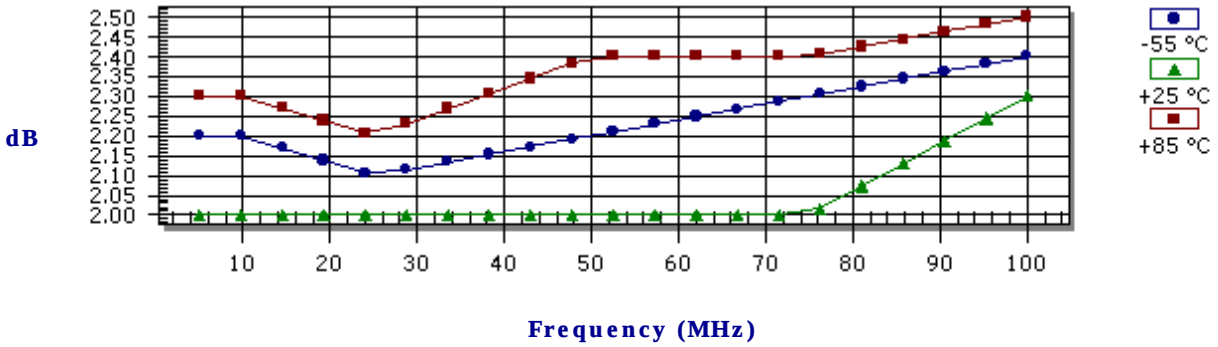


Gain

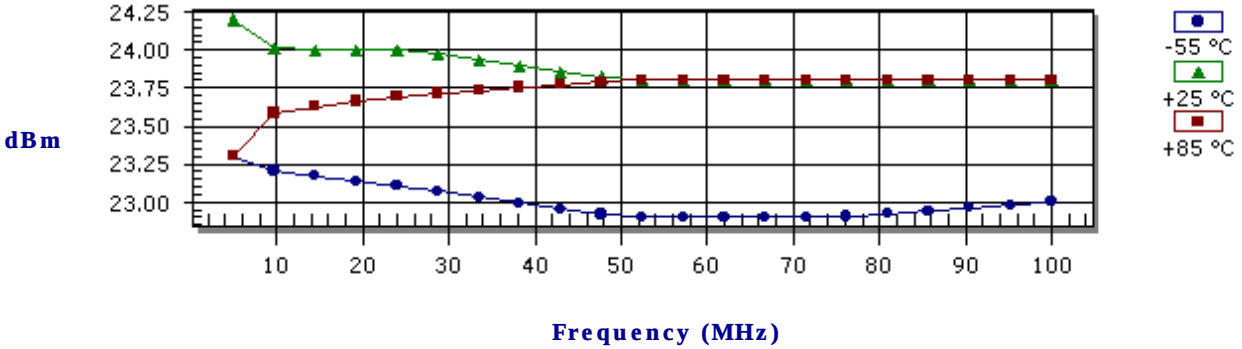


Frequency (MHz)

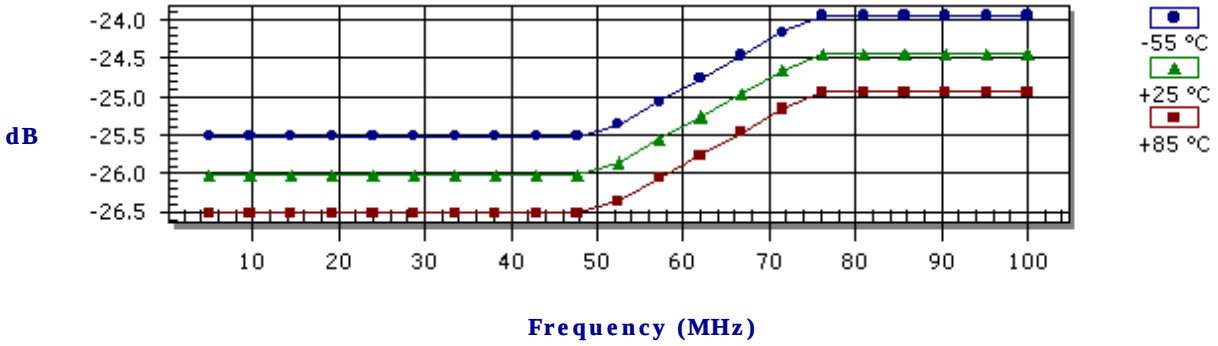
Noise Figure



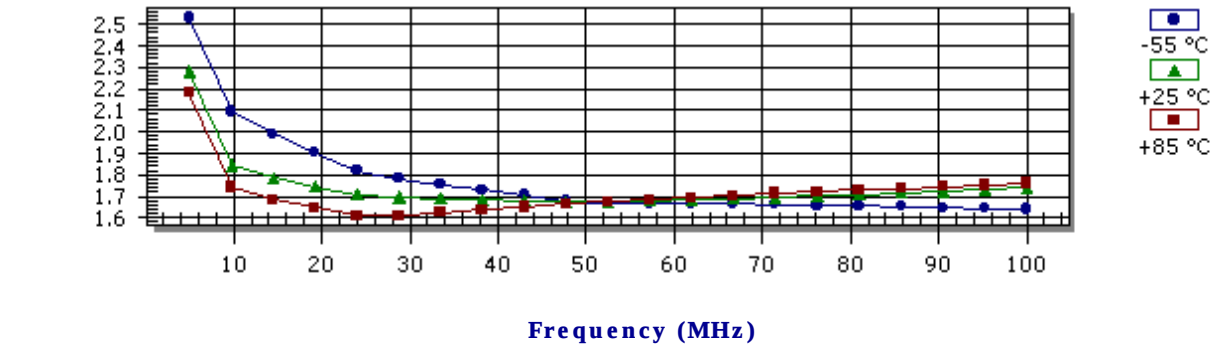
P_{1dB} Compression Point



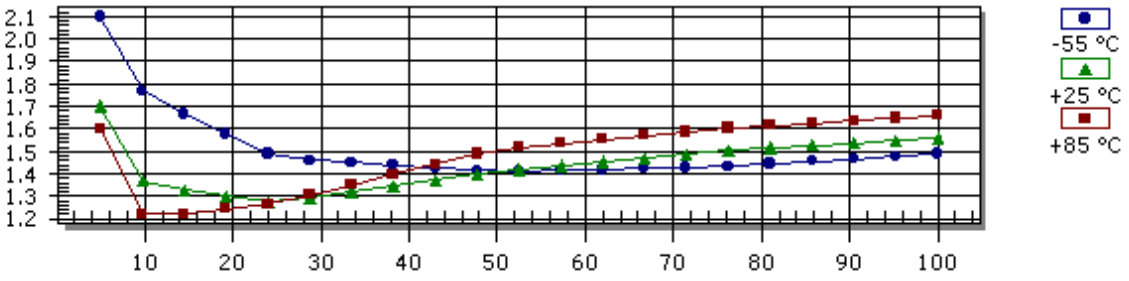
Reverse Isolation



Input VSWR



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	0.390	-32.90	9.940	-151.50	0.050	-151.80	0.260	-19.90
10.0	0.290	-26.30	10.560	-168.30	0.050	-172.10	0.150	-23.60
25.0	0.260	-20.10	10.790	176.20	0.050	169.90	0.120	8.60
50.0	0.250	-25.10	10.790	162.50	0.050	154.50	0.170	18.80
75.0	0.260	-34.70	10.690	150.80	0.060	139.80	0.200	15.60
100.0	0.270	-46.90	10.520	140.00	0.060	126.90	0.220	8.50

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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