

Part/Keyword Search



Detailed Drawing



Printer Friendly Datasheet

PN9117 / SPN9117*

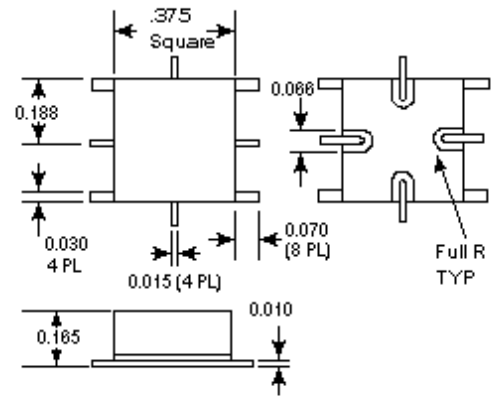
* Part number for additional environmental screening.

Performance Data

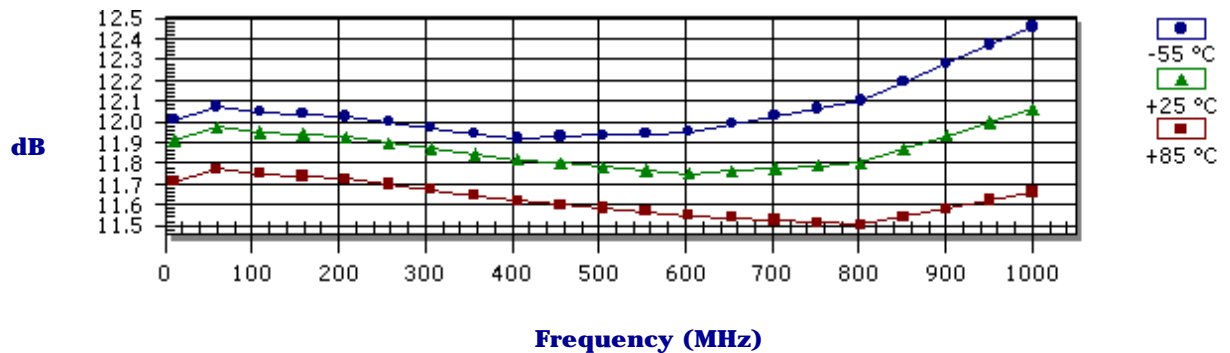
Frequency	10.0 - 1000.0 MHz
Gain	12.0 dB Typical 10.0 dB Min
Noise Figure	4.0 dB Typical 6.0 dB Max
P _{1dB}	15.5 dBm Typical 14.5 dBm Min
3 rd Order Intercept	28.0 dBm Typical
2 nd Order Intercept	40.0 dBm Typical
VSWR	1.5/2.0 Input Typ/Max 1.5/2.0 Output Typ/Max
Reverse Isolation	-14.5 dB Typical -13.5 dB Min
Power Supply	15.0 Volts 46.0 mA
Operating Temperature	-55.0 - 85.0 °C

Package Drawing

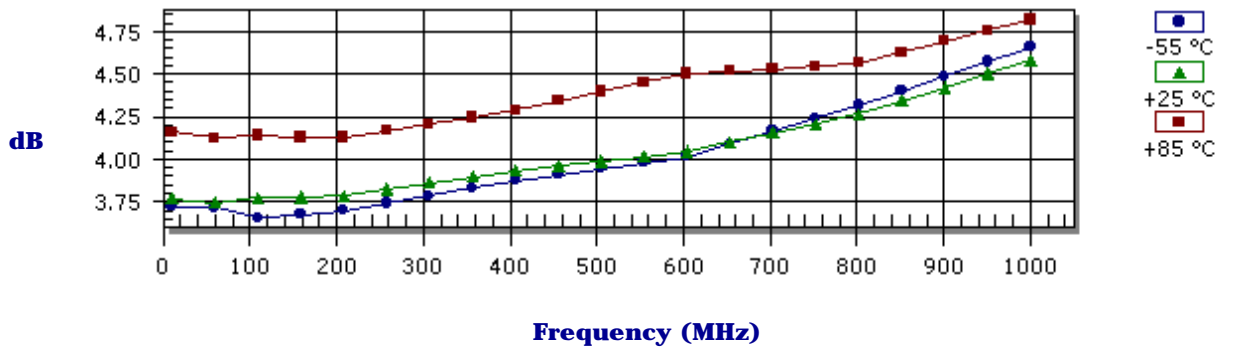
SM-11 (Surface Mount)



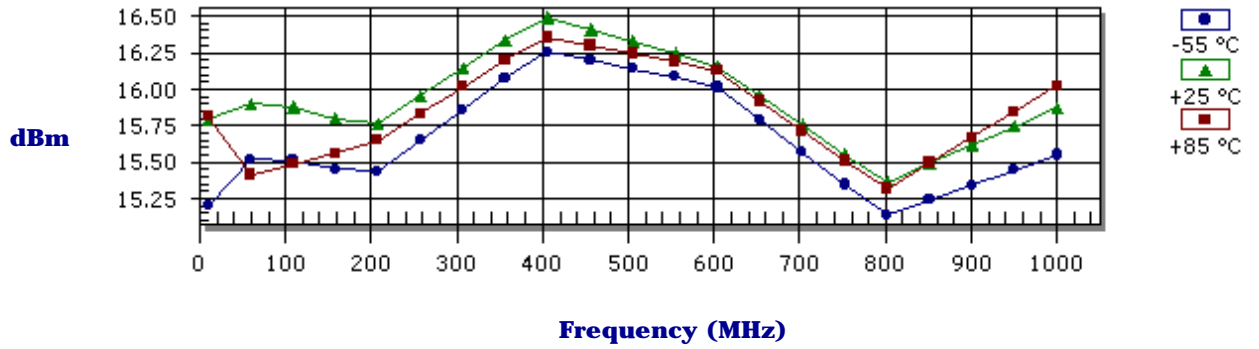
Gain



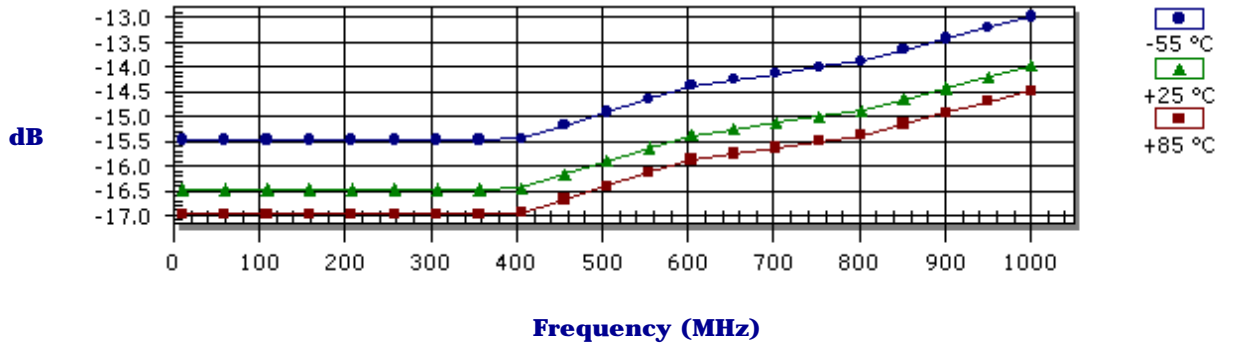
Noise Figure



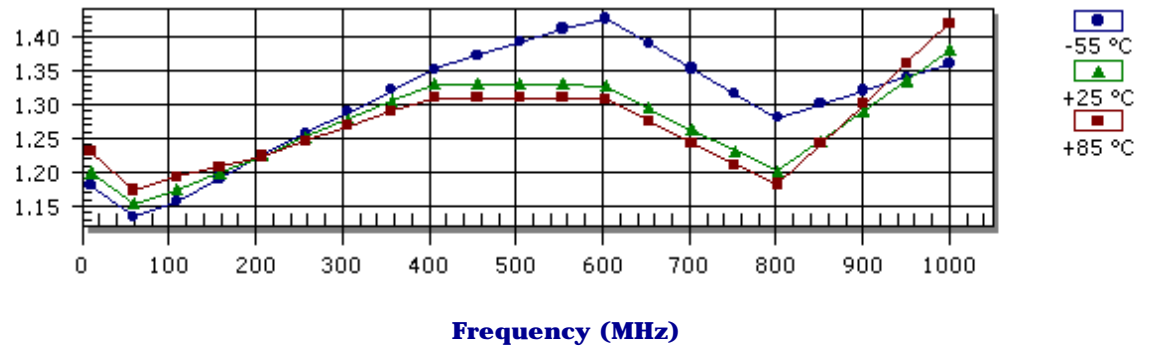
P_{1dB} Compression Point



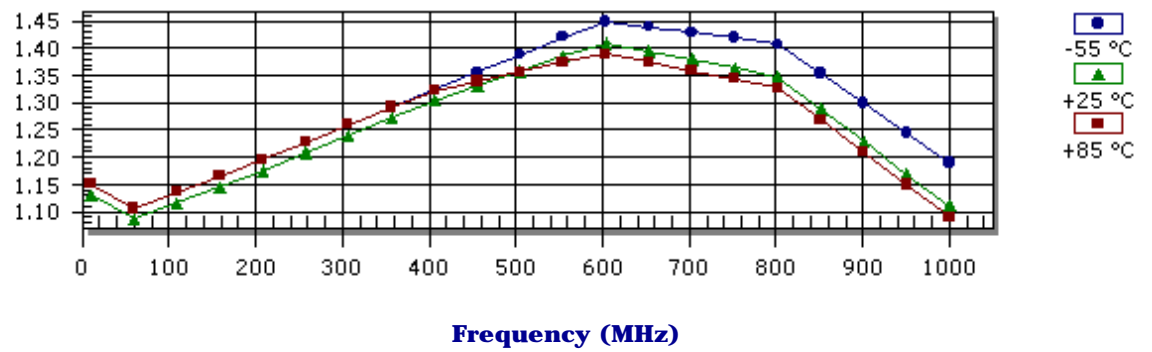
Reverse Isolation



Input VSWR



Output VSWR



S-Parameters

Frequency	S11 Mag	S11 Ang	S21 Mag	S21 Ang	S12 Mag	S12 Ang	S22 Mag	S22 Ang
10.0	0.090	-23.00	3.940	-177.00	0.150	4.00	0.060	59.00
50.0	0.070	3.00	3.970	173.00	0.150	-1.00	0.040	-13.00
100.0	0.080	12.00	3.960	165.00	0.150	-3.00	0.050	-45.00
200.0	0.100	22.00	3.950	149.00	0.150	-7.00	0.080	-78.00
400.0	0.140	17.00	3.900	118.00	0.150	-14.00	0.130	-121.00
600.0	0.140	-2.00	3.870	88.00	0.170	-23.00	0.170	-153.00
800.0	0.090	-45.00	3.890	56.00	0.180	-34.00	0.150	170.00
1000.0	0.160	169.00	4.010	18.00	0.200	-53.00	0.050	97.00

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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