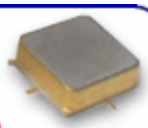


Detailed Drawing

Printer Friendly Datasheet

PN6345 / SPN6345*

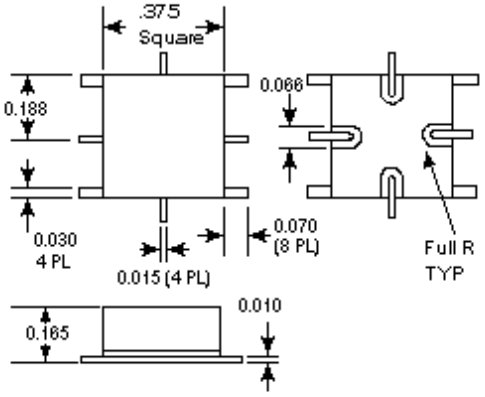
* Part number for additional environmental screening.

Performance Data

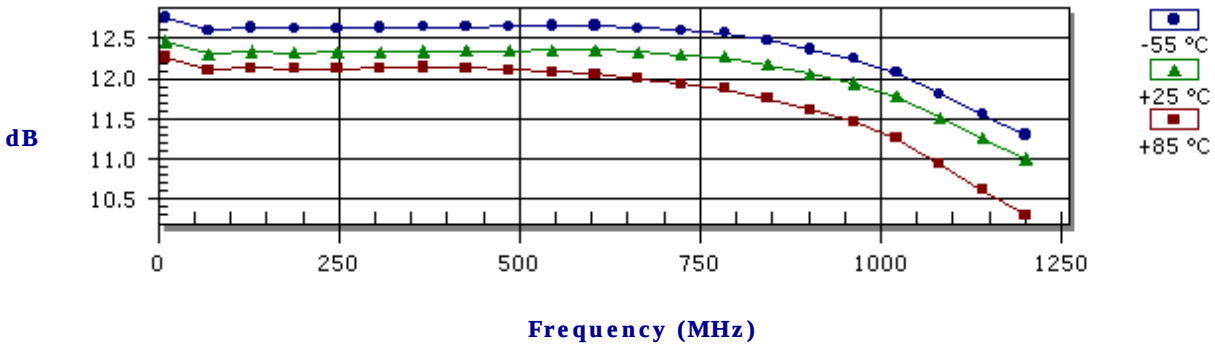
Frequency	10.0 - 1100.0 MHz
Gain	12.3 dB Typical 10.5 dB Min
Noise Figure	3.0 dB Typical 4.0 dB Max
P_{1dB}	17.0 dBm Typical 15.0 dBm Min
3rd Order Intercept	33.0 dBm Typical
2nd Order Intercept	46.0 dBm Typical
VSWR	1.5/2.0 Input Typ/Max 1.8/2.0 Output Typ/Max
Reverse Isolation	-13.5 dB Typical -12.0 dB Min
Power Supply	15.0 Volts 45.0 mA
Operating Temperature	-55.0 - 85.0 °C

Package Drawing

SM-11 (Surface Mount)

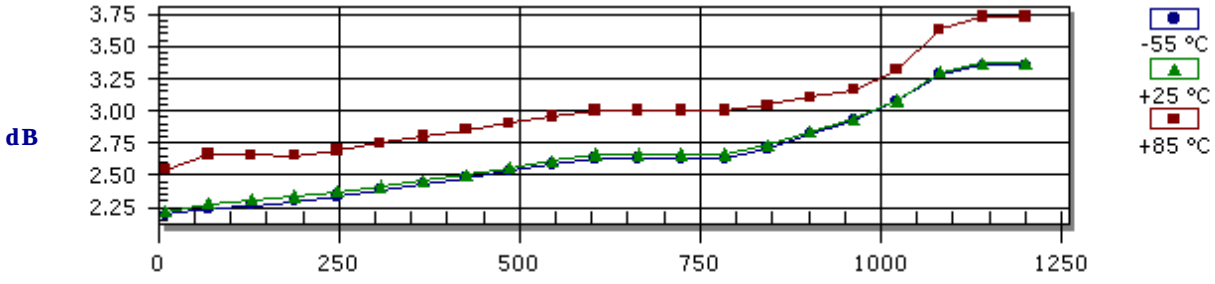


Gain



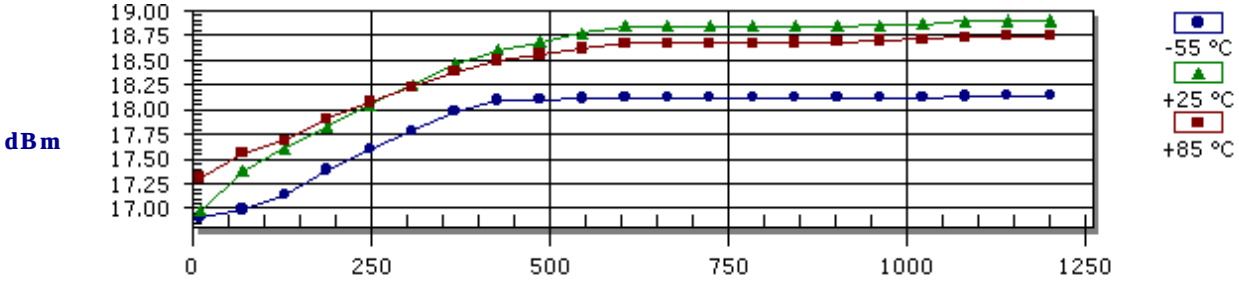
Frequency (MHz)

Noise Figure



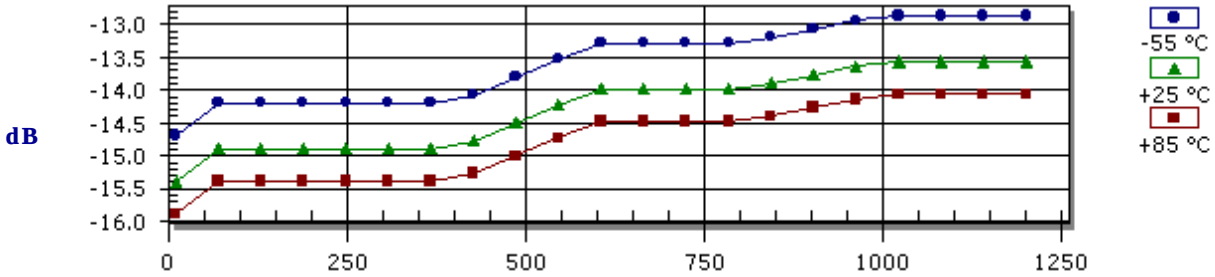
Frequency (MHz)

P_{1dB} Compression Point



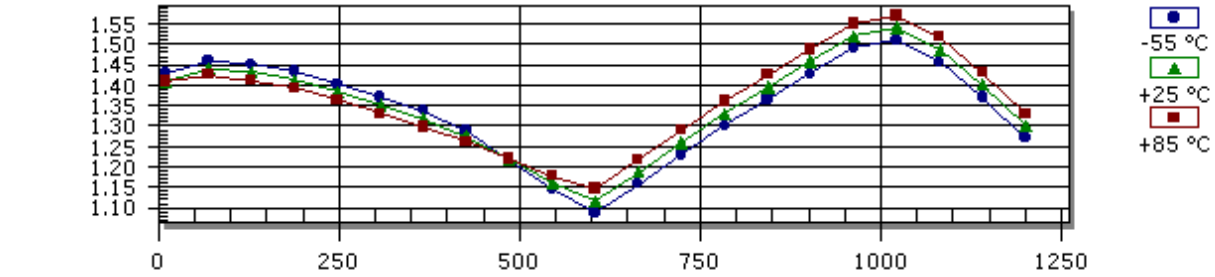
Frequency (MHz)

Reverse Isolation



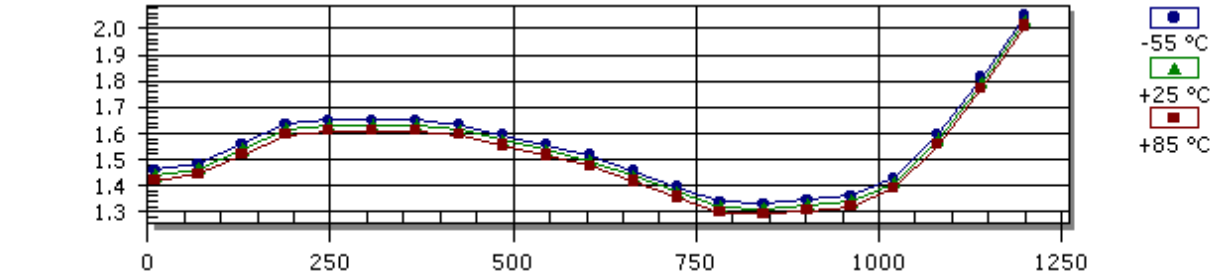
Frequency (MHz)

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
10.0	0.170	179.00	4.200	-166.00	0.170	-169.00	0.180	18.00
50.0	0.180	155.00	4.110	173.00	0.180	174.00	0.180	14.00
100.0	0.180	132.00	4.140	162.00	0.180	163.00	0.200	9.00
200.0	0.170	93.00	4.130	140.00	0.180	144.00	0.240	1.00
400.0	0.130	26.00	4.140	99.00	0.180	109.00	0.240	-26.00
600.0	0.050	-83.00	4.150	57.00	0.200	73.00	0.200	-53.00
800.0	0.150	144.00	4.100	12.00	0.200	36.00	0.130	-111.00
1000.0	0.220	78.00	3.920	-36.00	0.210	-3.00	0.150	180.00
1100.0	0.190	44.00	3.730	-61.00	0.210	-23.00	0.240	144.00
1200.0	0.130	1.00	3.550	-87.00	0.210	-45.00	0.340	126.00

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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