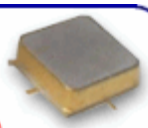


RN9770 / SRN9770*

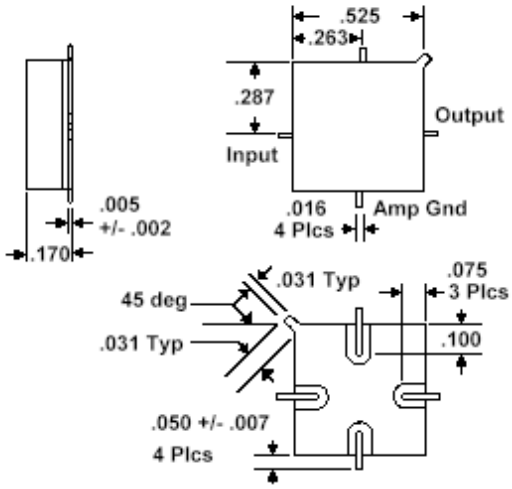
* Part number for additional environmental screening.

Performance Data

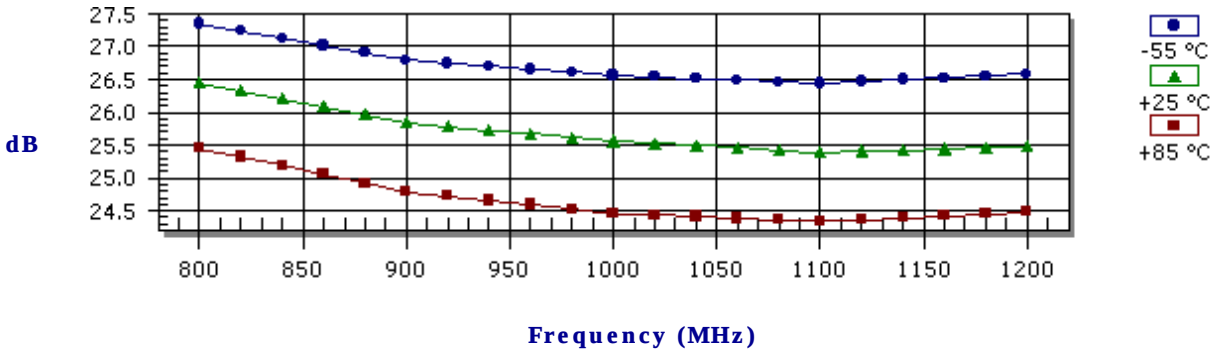
Frequency	800.0 - 1200.0 MHz
Gain	25.0 dB Typical 24.0 dB Min
Noise Figure	1.0 dB Typical 1.8 dB Max
P_{1dB}	14.0 dBm Typical 13.0 dBm Min
3rd Order Intercept	25.0 dBm Typical
2nd Order Intercept	40.0 dBm Typical
VSWR	1.8/2.0 Input Typ/Max 1.8/2.0 Output Typ/Max
Reverse Isolation	-38.0 dB Typical -36.0 dB Min
Power Supply	15.0 Volts 62.0 mA
Operating Temperature	-55.0 - 85.0 °C

Package Drawing

SM-19 Surface Mount Package

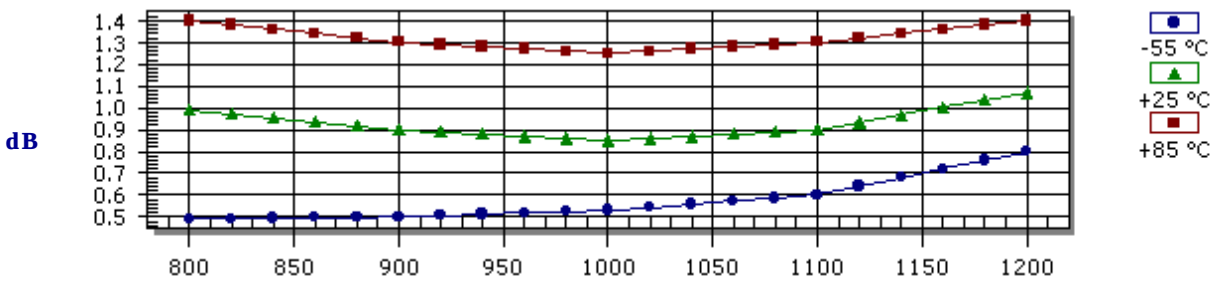


Gain



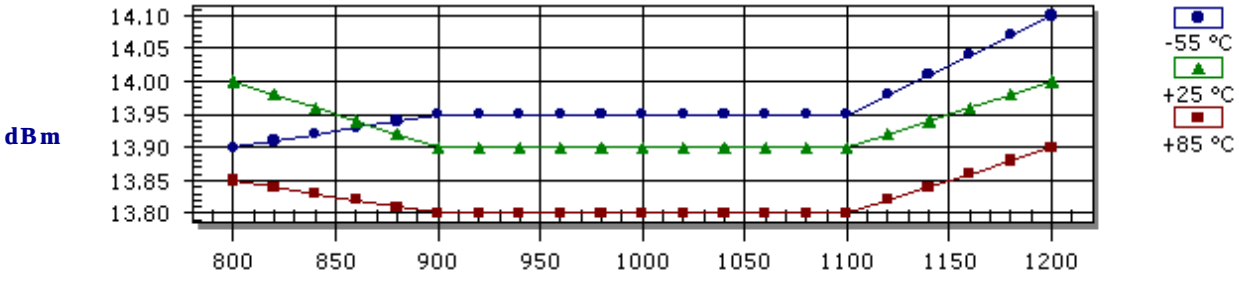
Frequency (MHz)

Noise Figure



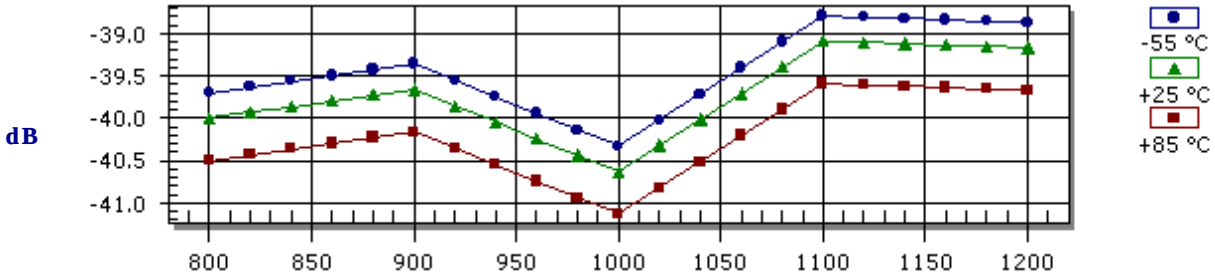
Frequency (MHz)

P_{1dB} Compression Point



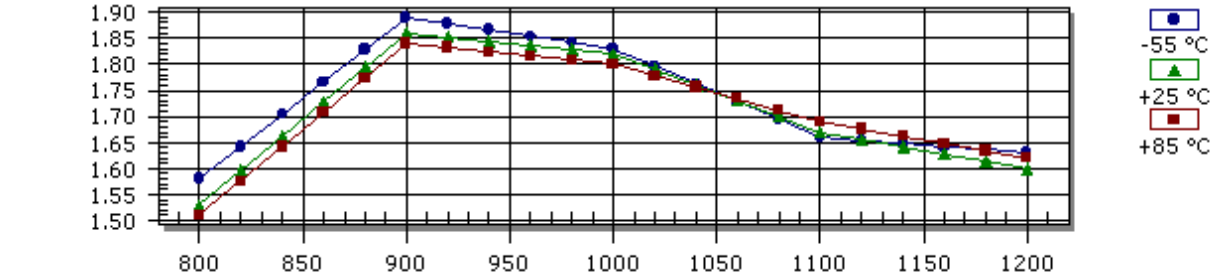
Frequency (MHz)

Reverse Isolation



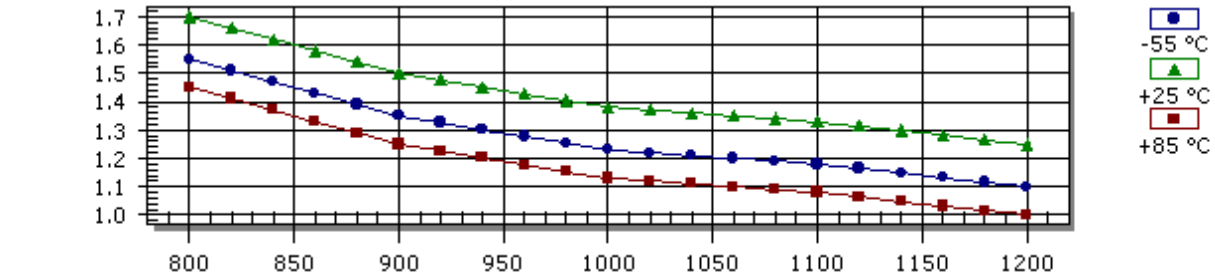
Frequency (MHz)

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
800.0	0.210	157.00	21.010	-128.00	0.010	27.00	0.260	29.00
900.0	0.300	139.00	19.590	-160.00	0.010	11.00	0.200	13.00
1000.0	0.290	115.00	18.960	171.00	0.009	-19.00	0.160	1.00
1100.0	0.250	82.00	18.610	143.00	0.011	-42.00	0.140	-14.00
1200.0	0.230	30.00	18.790	113.00	0.011	-66.00	0.110	-38.00

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)**	200.0 mW
Maximum Peak Power (3 µsec max)	0.5 W		

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