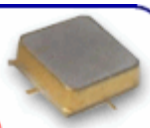


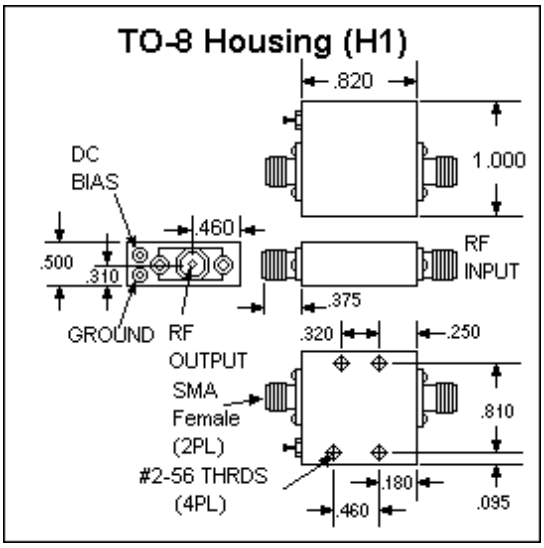
BX9755 / SX9755*

* Part number for additional environmental screening.

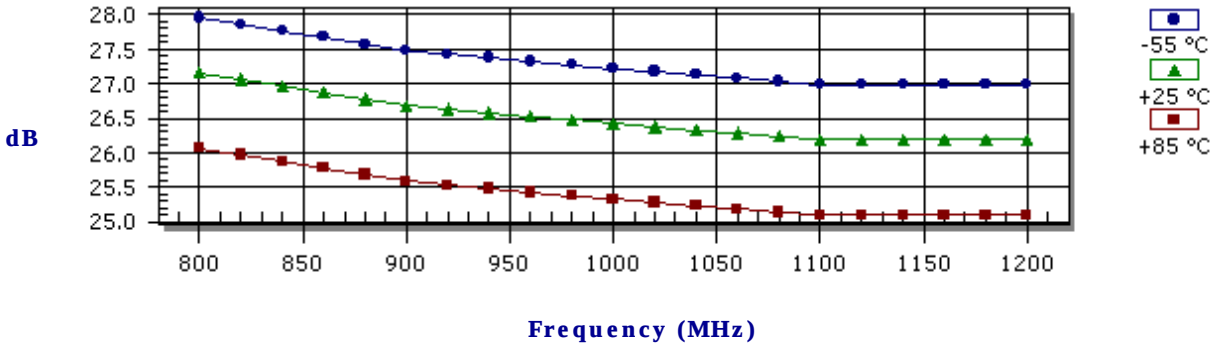
Performance Data

Frequency	800.0 - 1200.0 MHz
Gain	26.0 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	5.0 Volts 62.0 mA
Operating Temperature	-55.0 - 85.0 °C

Package Drawing

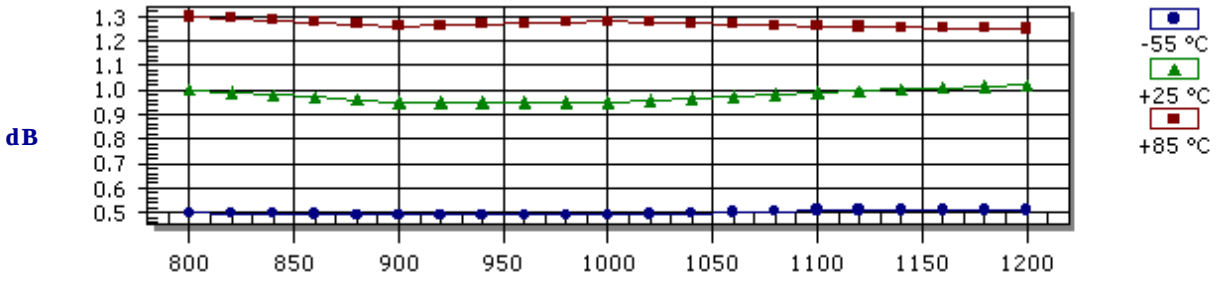


Gain



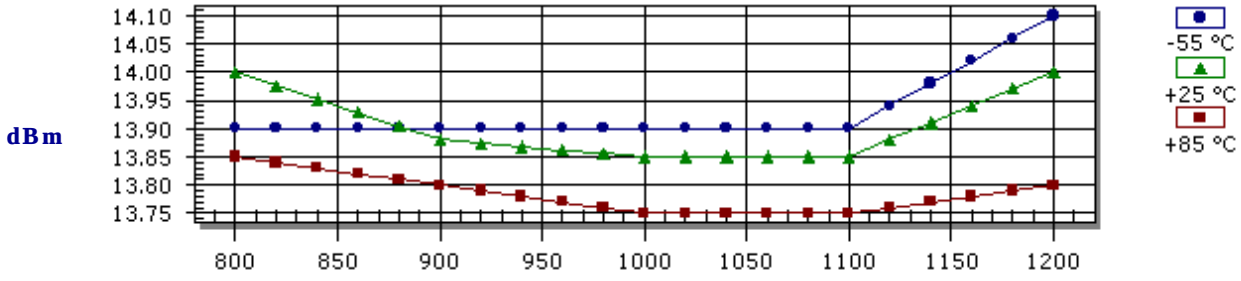
Frequency (MHz)

Noise Figure



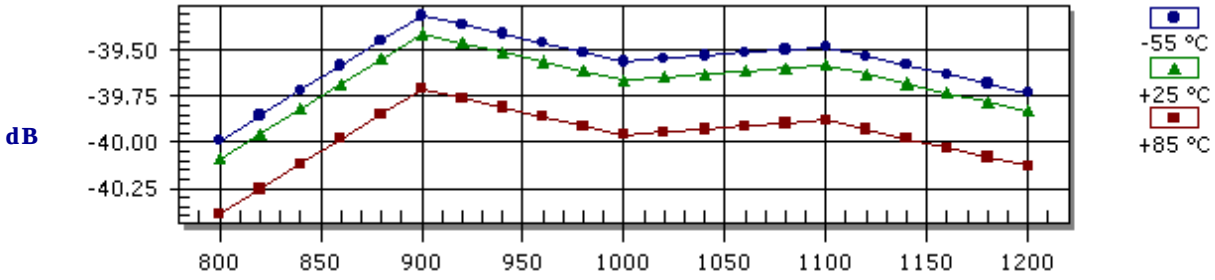
Frequency (MHz)

P_{1dB} Compression Point



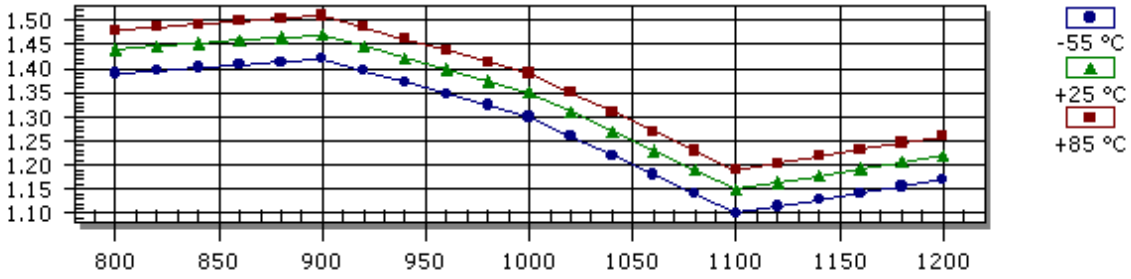
Frequency (MHz)

Reverse Isolation



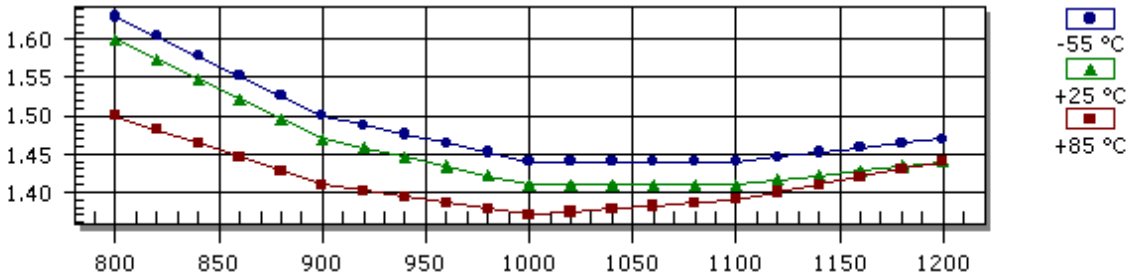
Frequency (MHz)

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	0.180	-116.00	22.800	-128.00	0.010	32.00	0.230	37.00
900.0	0.190	-167.00	21.580	-158.00	0.011	14.00	0.190	15.00
1000.0	0.150	159.00	20.930	173.00	0.010	-9.00	0.170	-9.00
1100.0	0.070	111.00	20.390	147.00	0.011	-30.00	0.170	-36.00
1200.0	0.100	-11.00	20.390	118.00	0.010	-53.00	0.180	-67.00

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**	8.0 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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