

Part/Keyword Search



Detailed Drawing



Printer Friendly
Datasheet

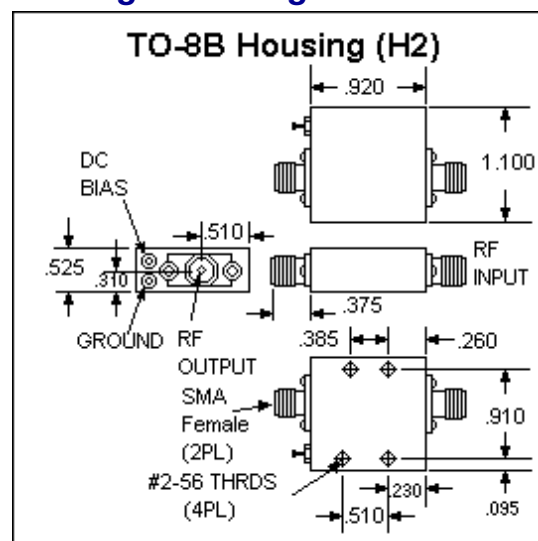
BR9522 / SBR9522*

* Part number for additional environmental screening.

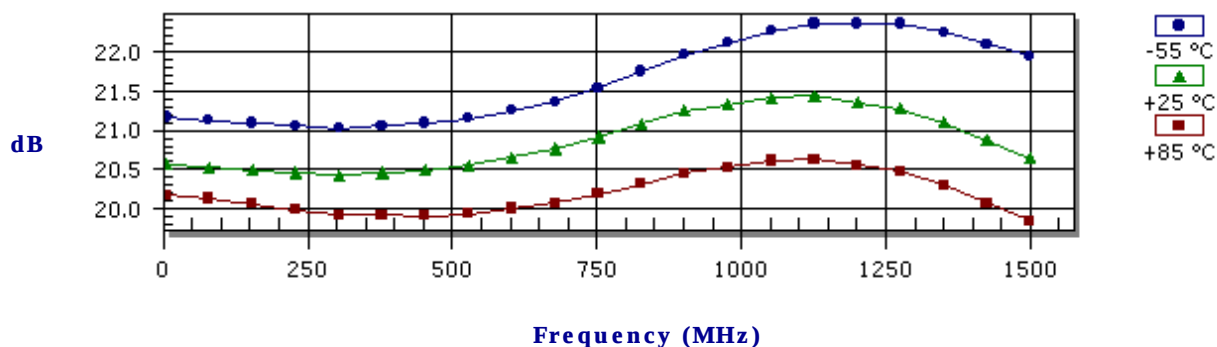
Performance Data

Frequency	5.0 - 1500.0 MHz
Gain	20.5 dB Typical 18.5 dB Min
Noise Figure	5.0 dB Typical 6.0 dB Max
P _{1dB}	14.0 dBm Typical 10.0 dBm Min
3 rd Order Intercept	25.0 dBm Typical
2 nd Order Intercept	42.0 dBm Typical
VSWR	1.5/2.0 Input Typ/Max 1.5/2.0 Output Typ/Max
Reverse Isolation	-30.0 dB Typical -27.0 dB Min
Power Supply	15.0 Volts 64.0 mA
Operating Temperature	-55.0 - 85.0 °C

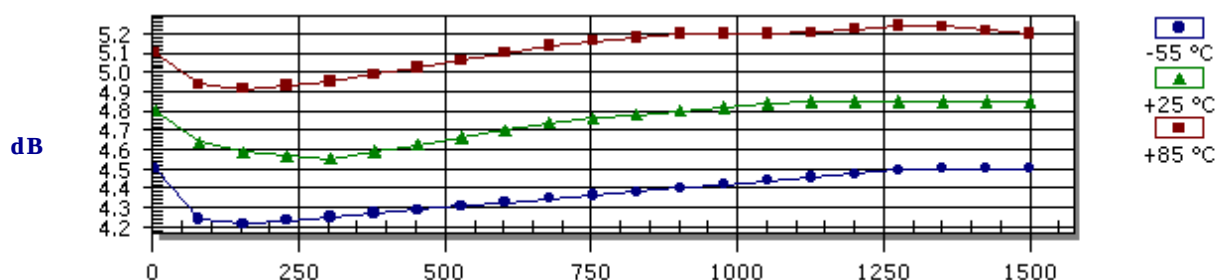
Package Drawing



Gain

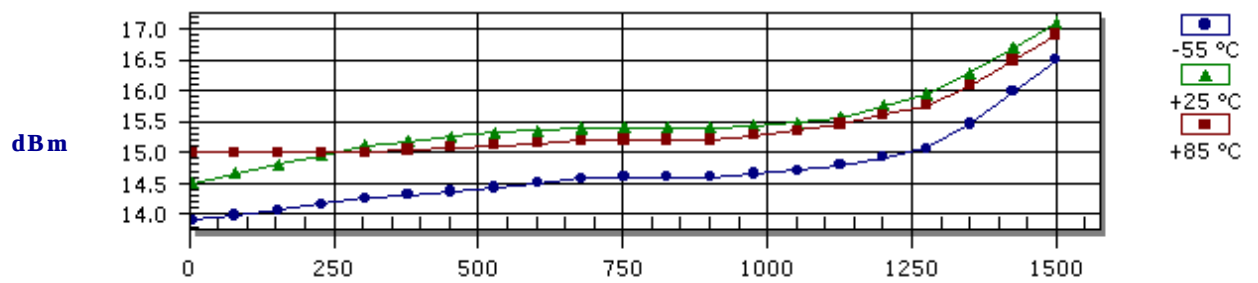


Noise Figure



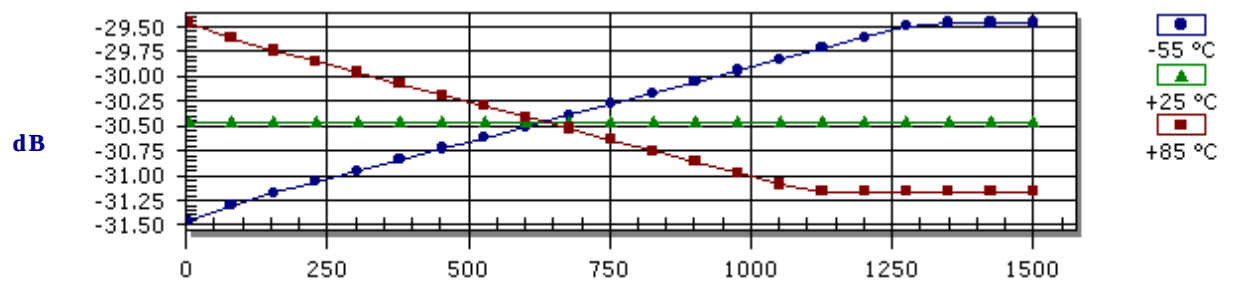
Frequency (MHz)

P_{1dB} Compression Point



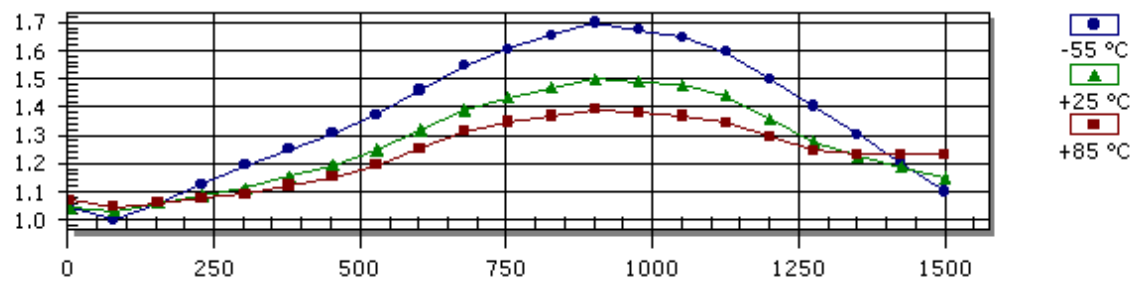
Frequency (MHz)

Reverse Isolation



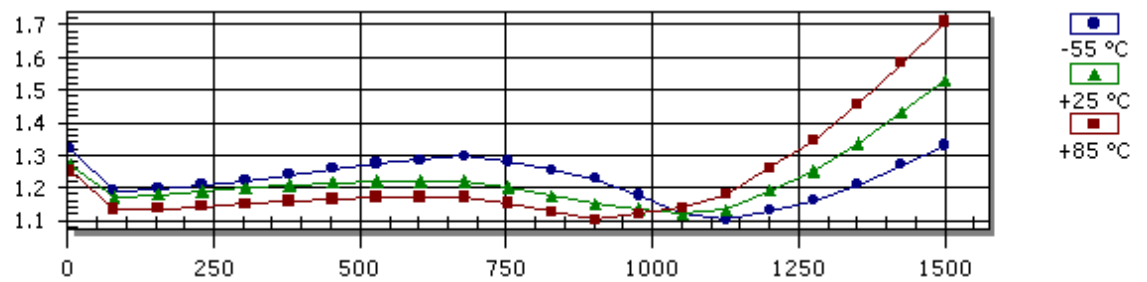
Frequency (MHz)

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
5.0	0.020	50.00	10.680	5.00	0.030	8.00	0.120	145.00
50.0	0.010	-33.00	10.640	-11.00	0.030	-1.00	0.080	166.00
100.0	0.020	-74.00	10.620	-24.00	0.030	-8.00	0.080	172.00
300.0	0.050	-154.00	10.500	-71.00	0.030	-19.00	0.090	166.00
500.0	0.100	156.00	10.610	-119.00	0.030	-35.00	0.100	151.00
700.0	0.170	110.00	10.950	-167.00	0.030	-54.00	0.100	133.00
900.0	0.200	65.00	11.550	143.00	0.030	-64.00	0.070	117.00
1100.0	0.190	20.00	11.830	89.00	0.030	-83.00	0.050	146.00
1300.0	0.110	-30.00	11.550	32.00	0.030	-100.00	0.120	160.00
1500.0	0.070	102.00	10.770	-27.00	0.030	-125.00	0.210	128.00

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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