

Part/Keyword Search



Detailed Drawing



Printer Friendly
Datasheet

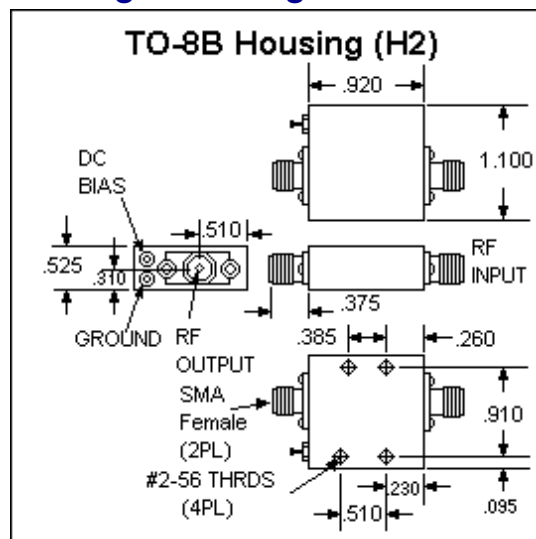
BR6176 / SBR6176*

* Part number for additional environmental screening.

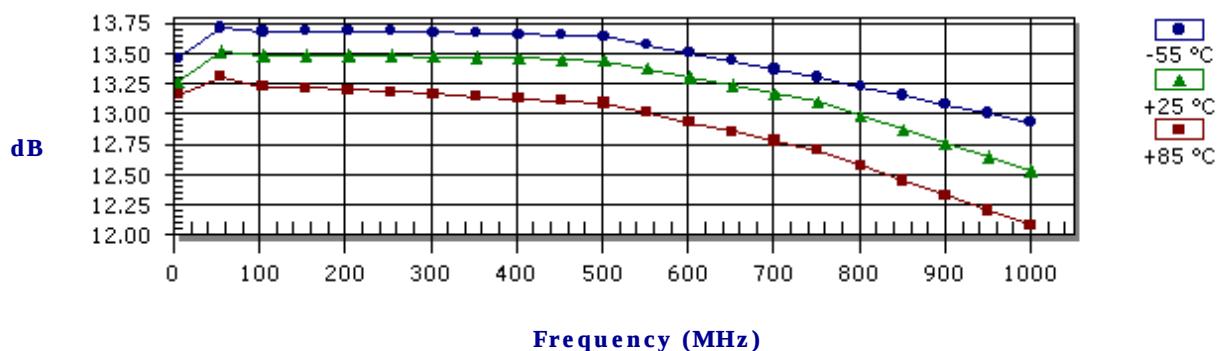
Performance Data

Frequency	5.0 - 1000.0 MHz
Gain	13.5 dB Typical 12.0 dB Min
Noise Figure	4.0 dB Typical 5.0 dB Max
P _{1dB}	14.0 dBm Typical 12.0 dBm Min
3 rd Order Intercept	27.0 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	-16.0 dB Typical -15.0 dB Min
Power Supply	15.0 Volts 38.0 mA
Operating Temperature	-55.0 - 85.0 °C

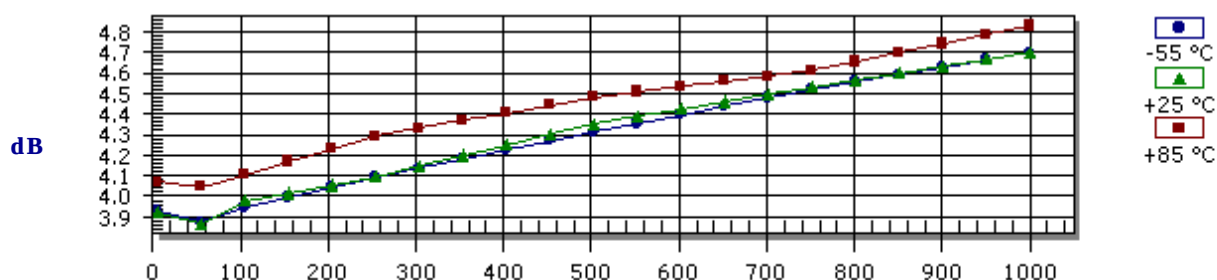
Package Drawing



Gain

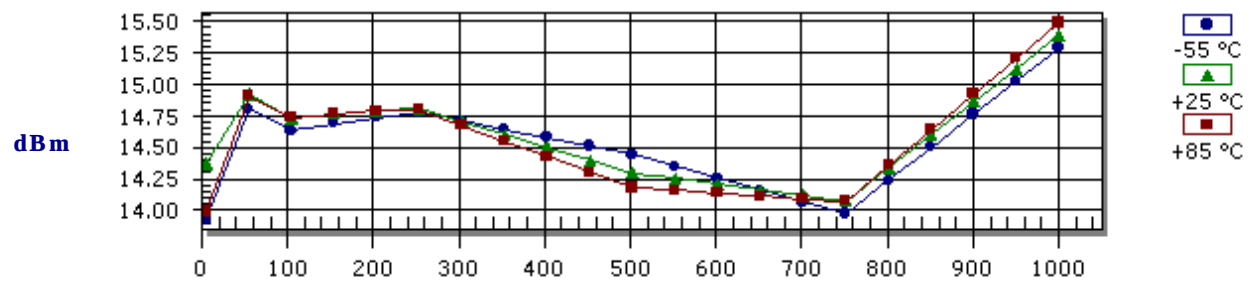


Noise Figure



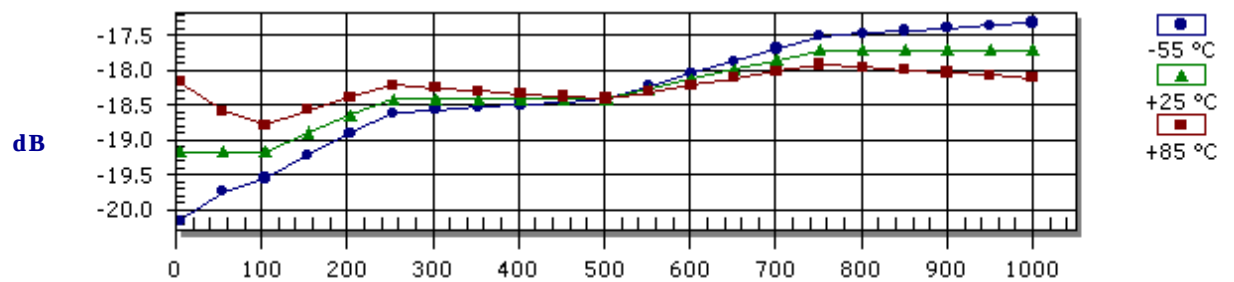
Frequency (MHz)

P_{1dB} Compression Point



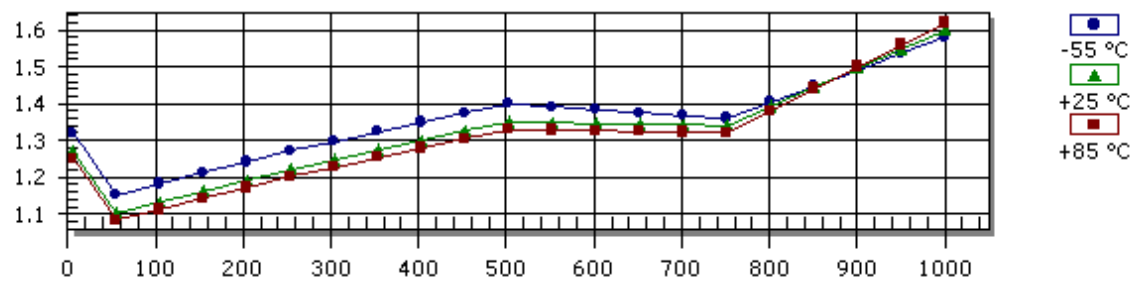
Frequency (MHz)

Reverse Isolation



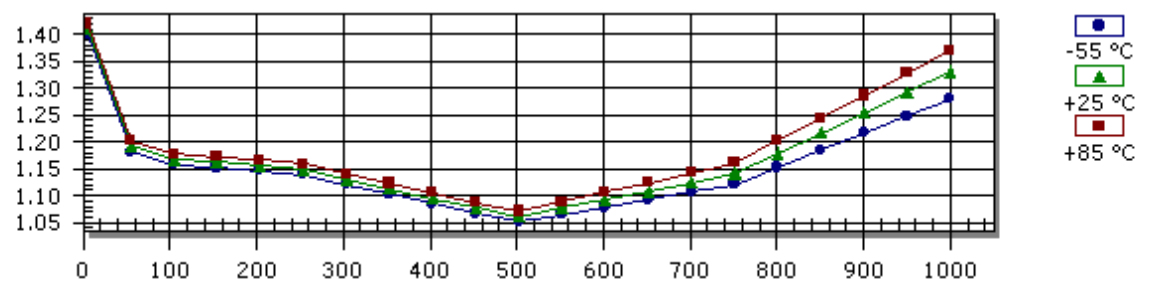
Frequency (MHz)

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	0.120	-51.00	4.600	-170.00	0.110	10.00	0.170	144.00
10.0	0.080	-39.00	4.680	-176.00	0.110	8.00	0.120	151.00
50.0	0.050	1.00	4.730	173.00	0.110	-1.00	0.090	165.00
100.0	0.060	18.00	4.720	164.00	0.110	-3.00	0.080	165.00
250.0	0.100	25.00	4.720	140.00	0.120	-8.00	0.070	158.00
500.0	0.150	-4.00	4.700	98.00	0.120	-21.00	0.030	-170.00
750.0	0.145	-72.50	4.520	55.00	0.130	-34.50	0.065	-129.50
1000.0	0.230	172.00	4.230	6.00	0.130	-52.00	0.140	-118.00

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	10.0 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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