

Part/Keyword Search



Detailed Drawing



Printer Friendly Datasheet

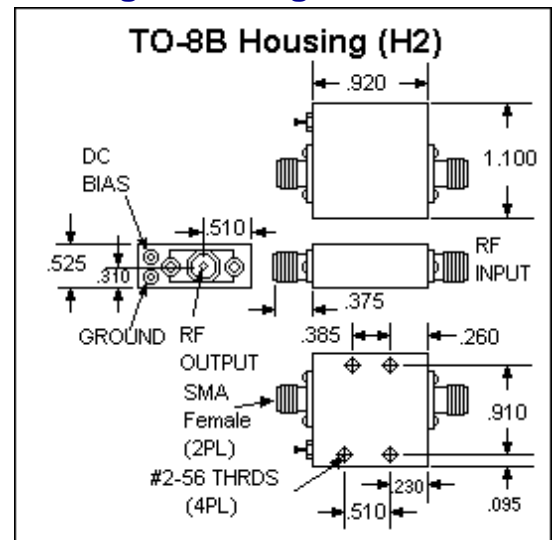
## BR9166 / SBR9166\*

\* Part number for additional environmental screening.

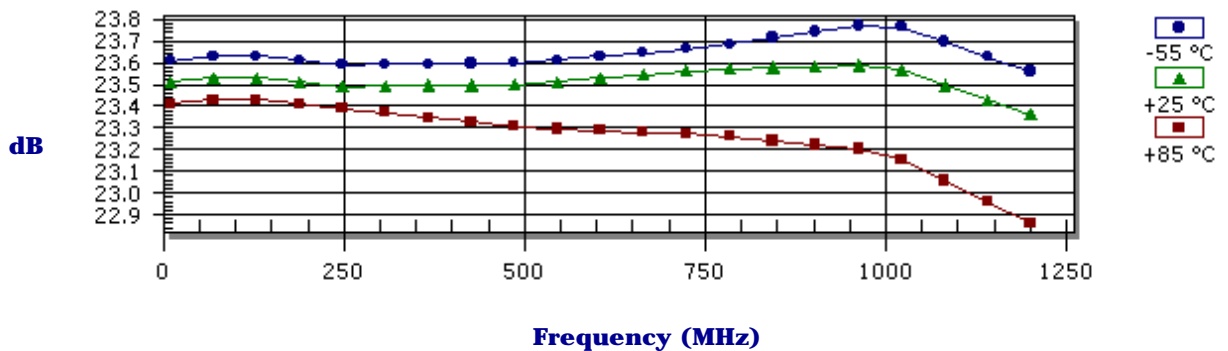
### Performance Data

Frequency	10.0 - 1200.0 MHz
Gain	23.5 dB Typical 22.0 dB Min
Noise Figure	4.5 dB Typical 5.5 dB Max
P <sub>1dB</sub>	15.0 dBm Typical 13.5 dBm Min
3 <sup>rd</sup> Order Intercept	28.0 dBm Typical
2 <sup>nd</sup> Order Intercept	46.0 dBm Typical
VSWR	1.5/2.0 Input Typ/Max 1.5/2.0 Output Typ/Max
Reverse Isolation	-30.5 dB Typical -29.0 dB Min
Power Supply	15.0 Volts 64.0 mA
Operating Temperature	-55.0 - 85.0 °C

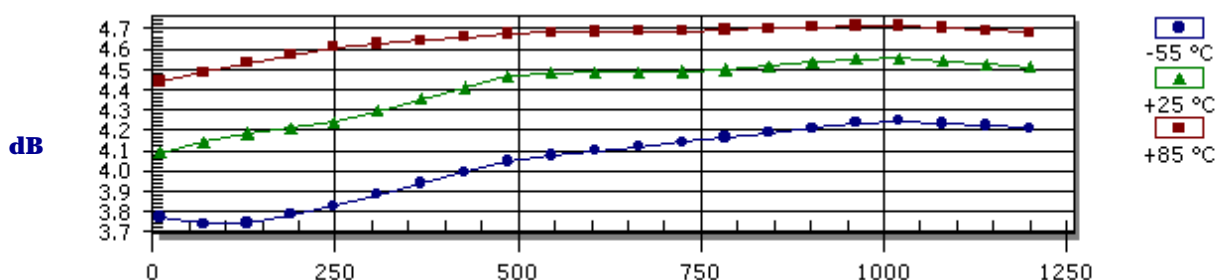
### Package Drawing



### Gain



### Noise Figure



Products

Amplifiers

VCOs

Limiting Amplifiers

Switches

Linearizers

Limiters

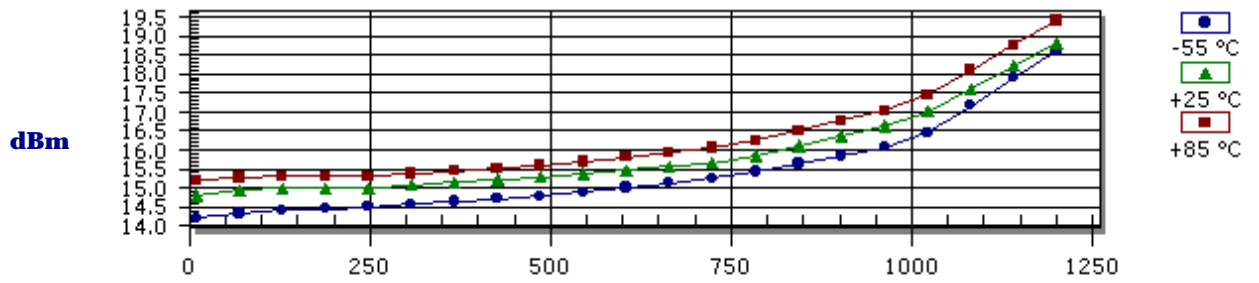
Analog Attenuators

Digital Attenuators

Detectors

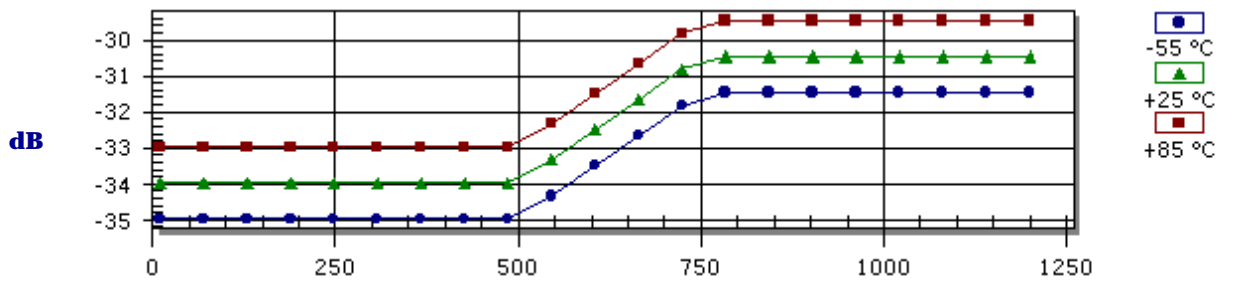
Frequency (MHz)

### $P_{1dB}$ Compression Point



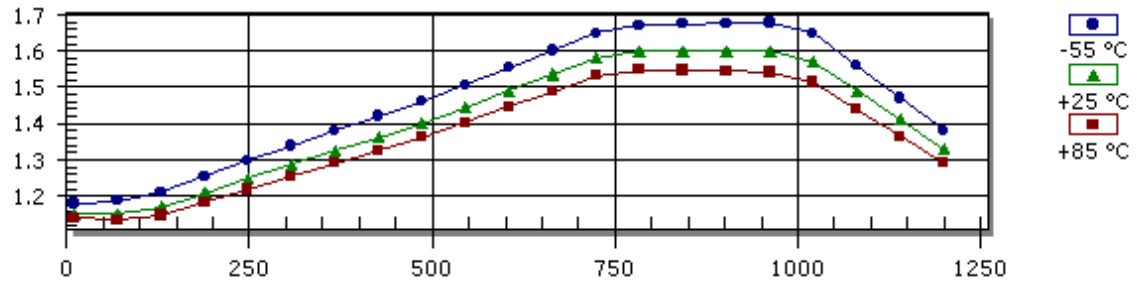
Frequency (MHz)

### Reverse Isolation



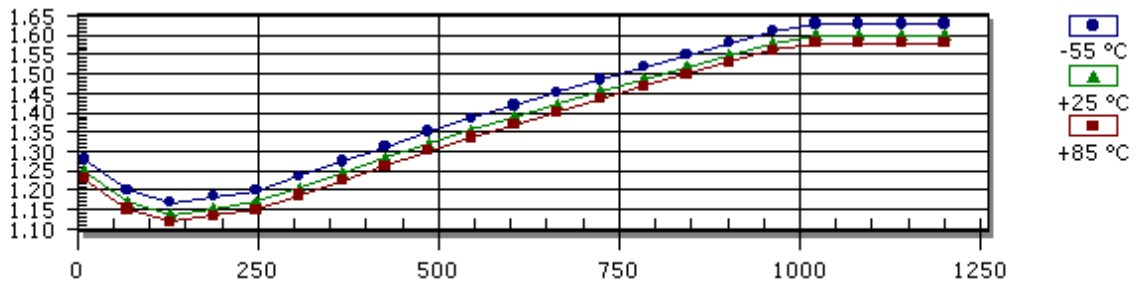
Frequency (MHz)

### 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	0.070	163.00	14.980	5.00	0.020	8.00	0.110	133.00
100.0	0.070	-177.00	15.030	-21.00	0.020	2.00	0.060	173.00
250.0	0.110	177.00	14.940	-54.00	0.020	0.00	0.080	172.00
500.0	0.170	138.00	14.960	-109.00	0.020	-3.00	0.140	129.00
750.0	0.230	90.00	15.080	-162.00	0.030	-11.00	0.190	70.00
1000.0	0.230	33.00	15.120	134.00	0.030	-26.00	0.230	6.00
1200.0	0.140	-25.00	14.720	82.00	0.030	-41.00	0.230	-51.00

## 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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# i2 Technologies US, Inc.

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