

Part/Keyword Search



Detailed Drawing



Printer Friendly Datasheet

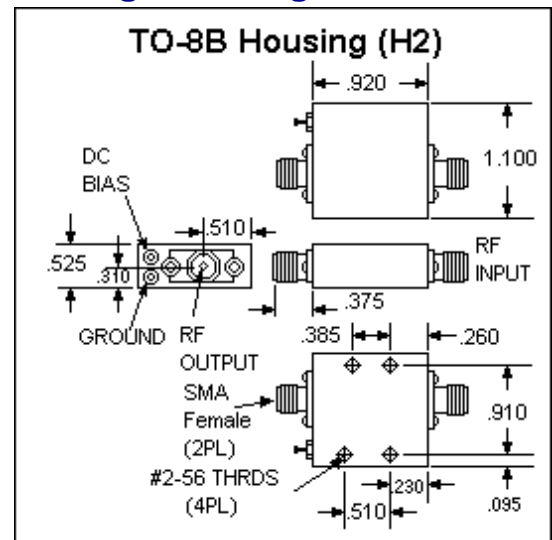
## BR9121 / SBR9121\*

\* Part number for additional environmental screening.

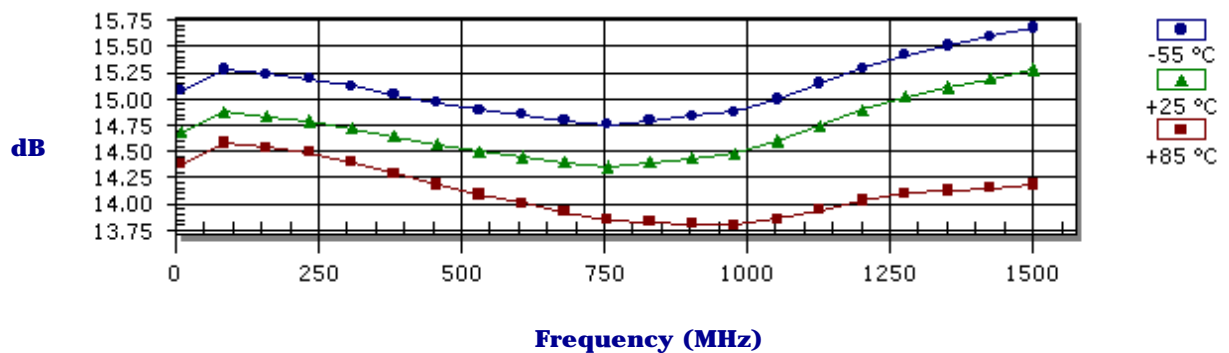
### Performance Data

Frequency	10.0 - 1500.0 MHz
Gain	15.0 dB Typical 13.5 dB Min
Noise Figure	4.0 dB Typical 5.0 dB Max
P <sub>1dB</sub>	13.5 dBm Typical 12.0 dBm Min
3 <sup>rd</sup> Order Intercept	26.0 dBm Typical
2 <sup>nd</sup> Order Intercept	34.0 dBm Typical
VSWR	1.8/2.0 Input Typ/Max 1.8/2.0 Output Typ/Max
Reverse Isolation	-16.0 dB Typical -15.0 dB Min
Power Supply	15.0 Volts 34.0 mA
Operating Temperature	-55.0 - 85.0 °C

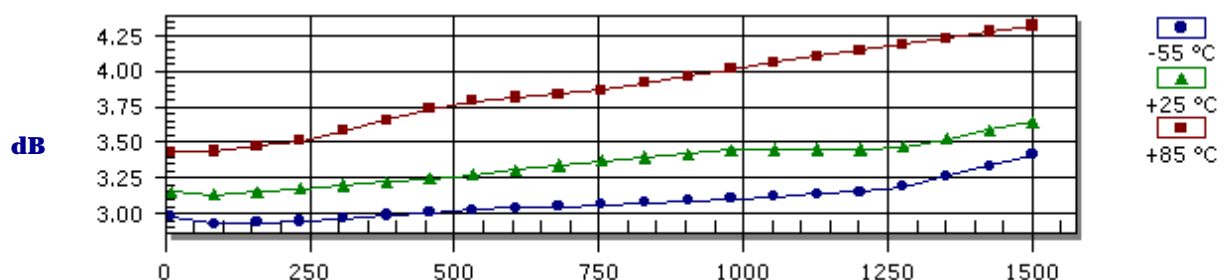
### Package Drawing



### Gain



### Noise Figure



Products

Amplifiers

VCOs

Limiting Amplifiers

Switches

Linearizers

Limiters

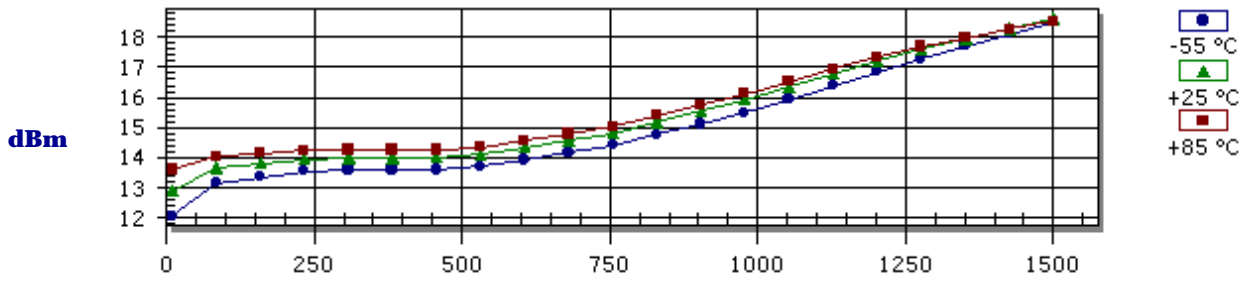
Analog Attenuators

Digital Attenuators

Detectors

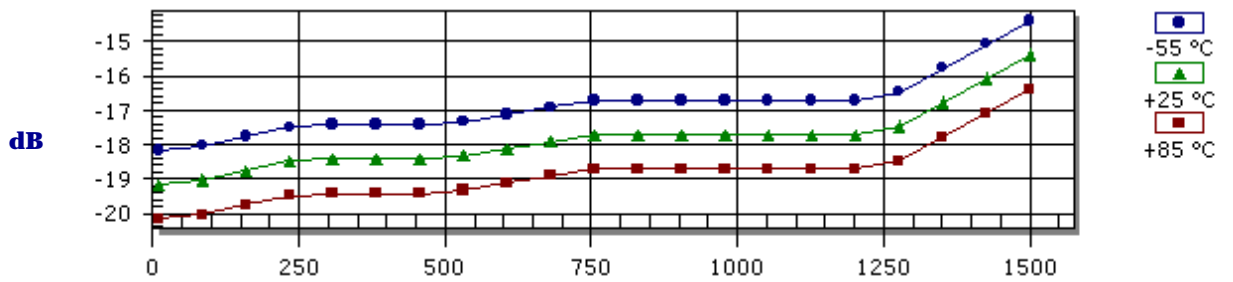
Frequency (MHz)

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



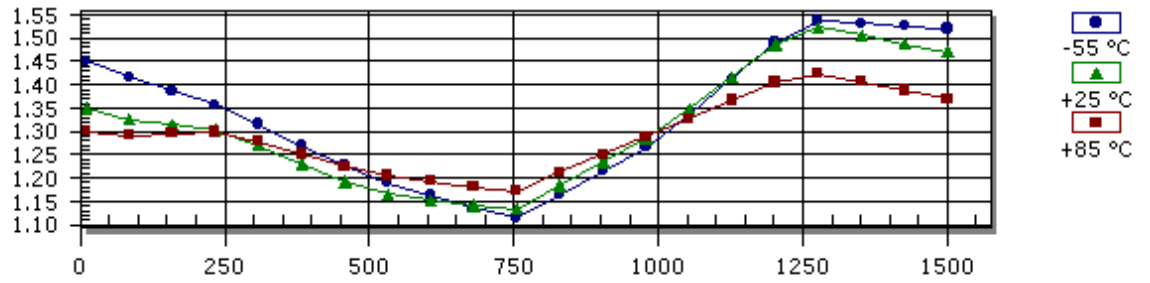
Frequency (MHz)

### Reverse Isolation



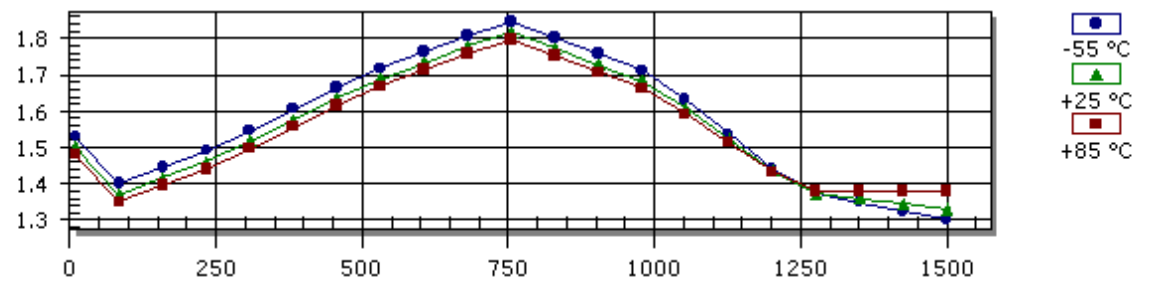
Frequency (MHz)

### 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	0.150	-139.00	5.420	-173.00	0.110	9.00	0.200	148.00
50.0	0.140	-171.00	5.560	176.00	0.110	1.00	0.150	150.00
250.0	0.130	174.00	5.480	147.00	0.120	-7.00	0.190	99.00
500.0	0.080	-178.00	5.320	115.00	0.120	-16.00	0.250	51.00
750.0	0.060	-135.00	5.220	83.00	0.130	-30.00	0.290	9.00
1000.0	0.130	-103.00	5.300	50.00	0.130	-42.00	0.250	-29.00
1250.0	0.210	-112.00	5.620	12.00	0.130	-52.00	0.160	-82.00
1500.0	0.190	-130.00	5.810	-40.00	0.170	-66.00	0.140	104.00

## 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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