

Part/Keyword Search



Detailed Drawing



Printer Friendly Datasheet

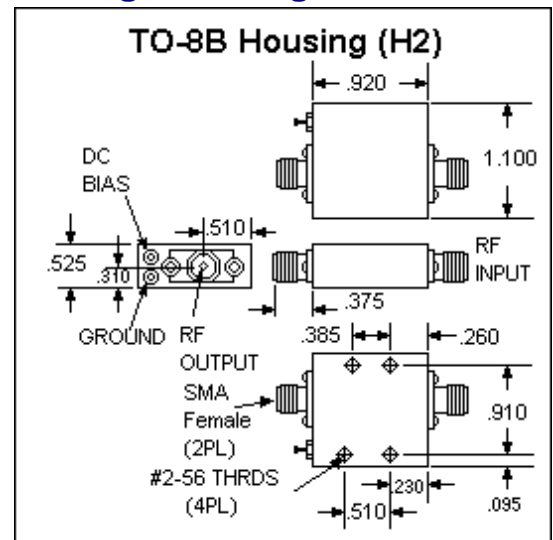
## BR5119 / SBR5119\*

\* Part number for additional environmental screening.

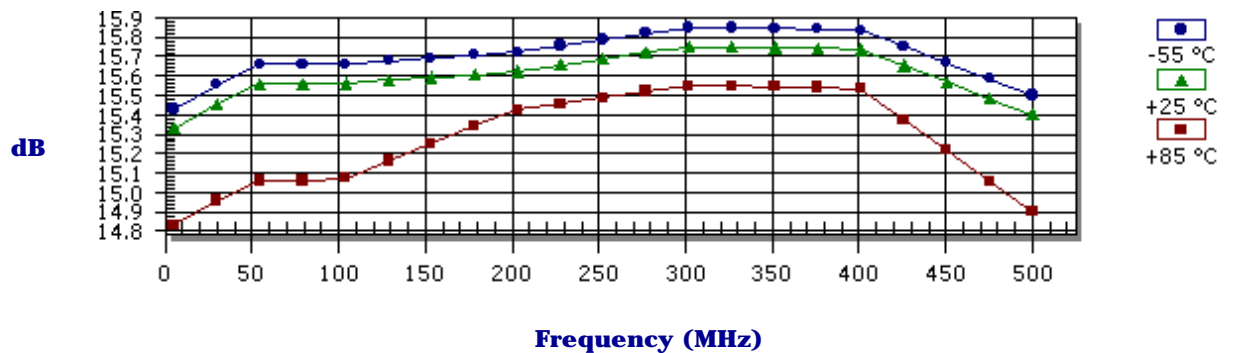
### Performance Data

Frequency	5.0 - 500.0 MHz
Gain	15.5 dB Typical 14.0 dB Min
Noise Figure	2.2 dB Typical 3.0 dB Max
P <sub>1dB</sub>	16.0 dBm Typical 14.0 dBm Min
3 <sup>rd</sup> Order Intercept	32.0 dBm Typical
2 <sup>nd</sup> Order Intercept	44.0 dBm Typical
VSWR	1.8/2.0 Input Typ/Max 1.8/2.0 Output Typ/Max
Reverse Isolation	-19.0 dB Typical -18.0 dB Min
Power Supply	15.0 Volts 30.0 mA
Operating Temperature	-55.0 - 85.0 °C

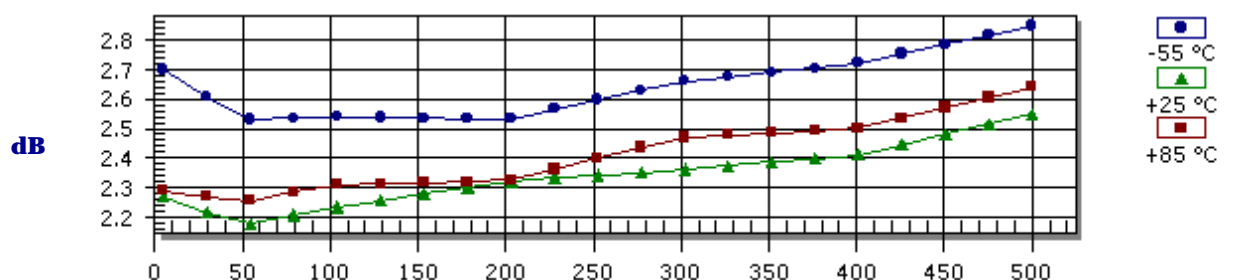
### Package Drawing



### Gain



### Noise Figure



Products

Amplifiers

VCOs

Limiting Amplifiers

Switches

Linearizers

Limiters

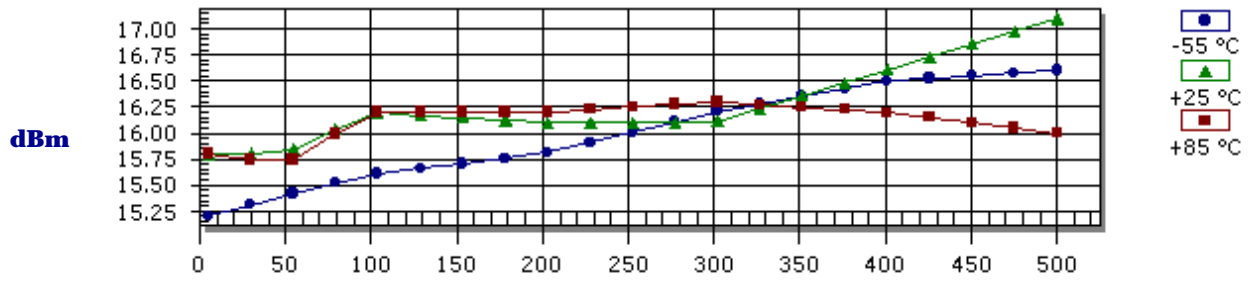
Analog Attenuators

Digital Attenuators

Detectors

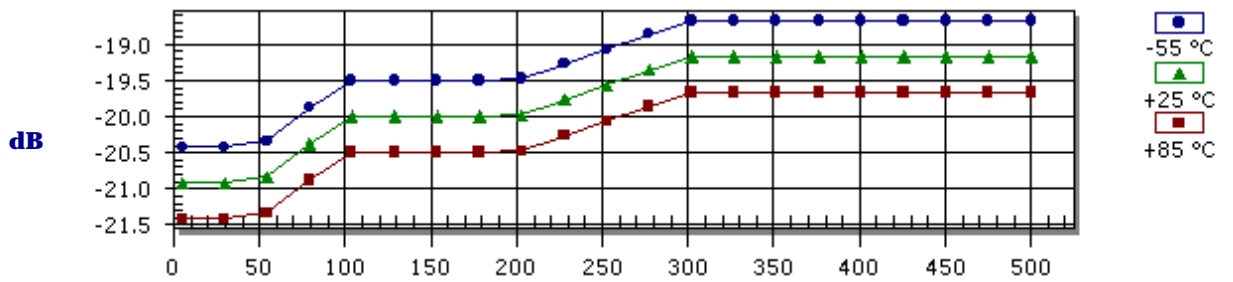
Frequency (MHz)

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



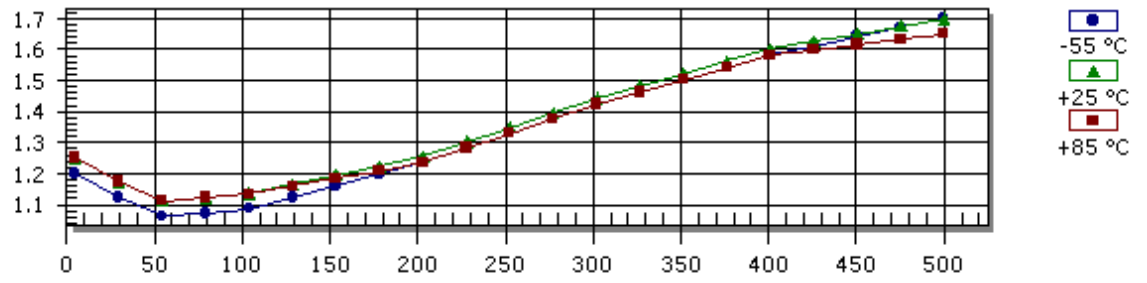
Frequency (MHz)

### Reverse Isolation



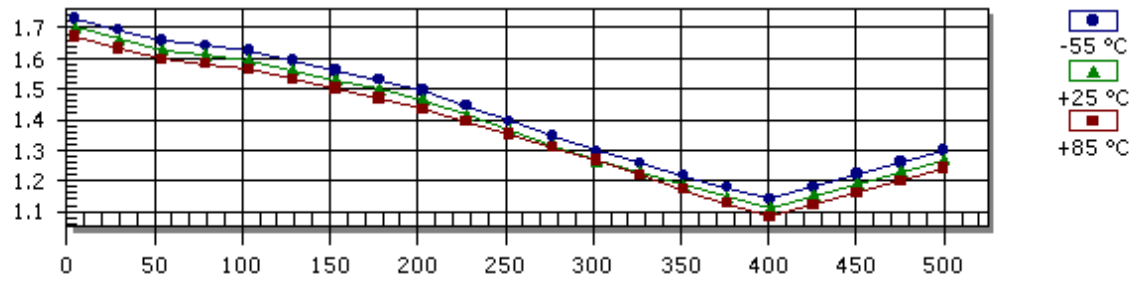
Frequency (MHz)

### 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
5.0	0.110	-57.00	5.840	-164.00	0.090	-163.00	0.260	-14.00
50.0	0.050	-29.00	6.000	169.00	0.090	168.00	0.240	-12.00
100.0	0.060	-41.00	6.000	157.00	0.100	151.00	0.230	-22.00
200.0	0.110	-66.00	6.040	132.00	0.100	123.00	0.190	-44.00
300.0	0.180	-100.00	6.130	106.00	0.110	98.00	0.120	-77.00
400.0	0.230	-139.00	6.120	78.00	0.110	75.00	0.050	-150.00
500.0	0.260	178.00	5.890	48.00	0.110	52.00	0.120	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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