

Part/Keyword Search



Detailed Drawing



Printer Friendly Datasheet

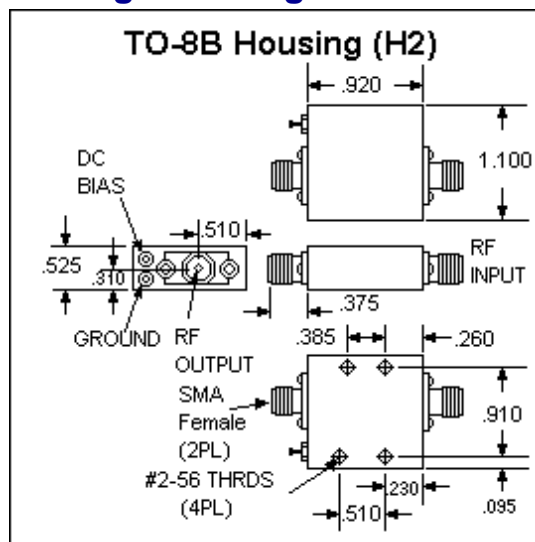
## BR6501 / SBR6501\*

\* Part number for additional environmental screening.

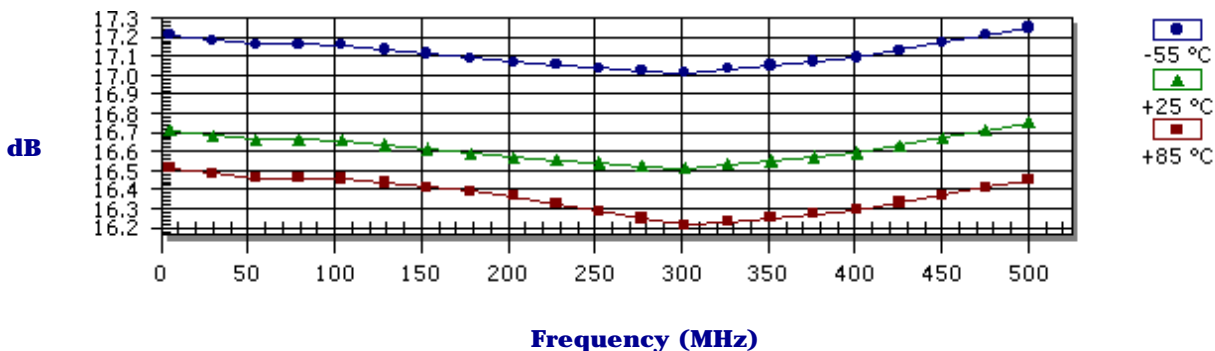
### Performance Data

Frequency	5.0 - 500.0 MHz
Gain	16.5 dB Typical 15.5 dB Min
Noise Figure	2.5 dB Typical 3.5 dB Max
P <sub>1dB</sub>	3.0 dBm Typical 1.0 dBm Min
3 <sup>rd</sup> Order Intercept	15.0 dBm Typical
2 <sup>nd</sup> Order Intercept	17.0 dBm Typical
VSWR	1.5/2.0 Input Typ/Max 1.5/2.0 Output Typ/Max
Reverse Isolation	-20.0 dB Typical -18.0 dB Min
Power Supply	15.0 Volts 10.0 mA
Operating Temperature	-55.0 - 85.0 °C

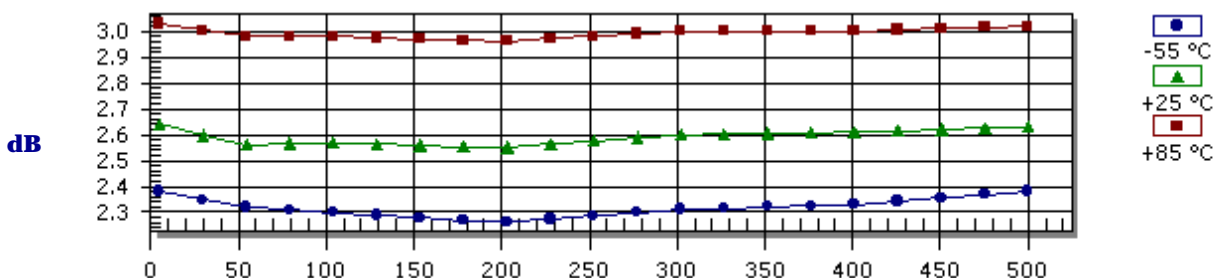
### Package Drawing



### Gain



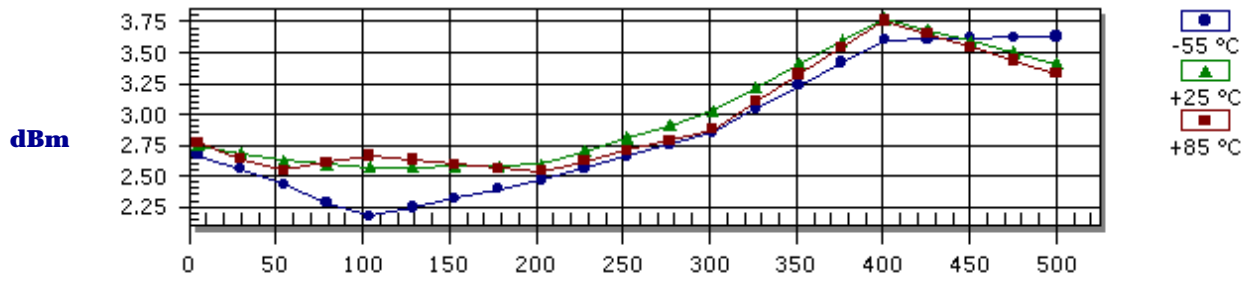
### Noise Figure



- Products
- Amplifiers
- VCOs
- Limiting Amplifiers
- Switches
- Linearizers
- Limiters
- Analog Attenuators
- Digital Attenuators
- Detectors

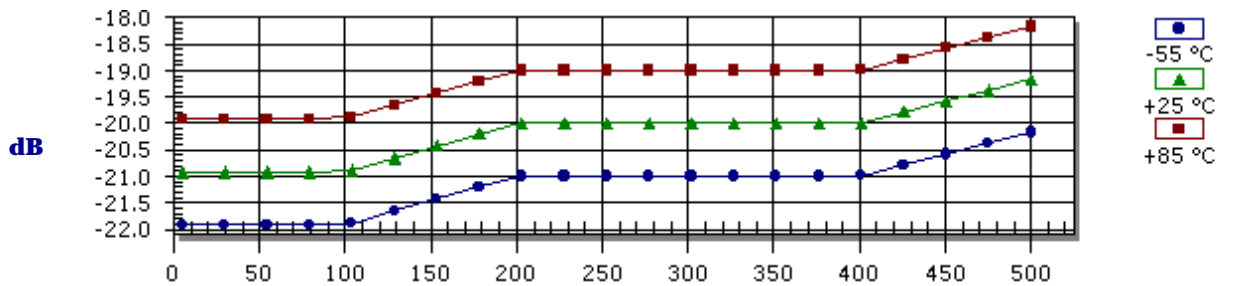
Frequency (MHz)

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



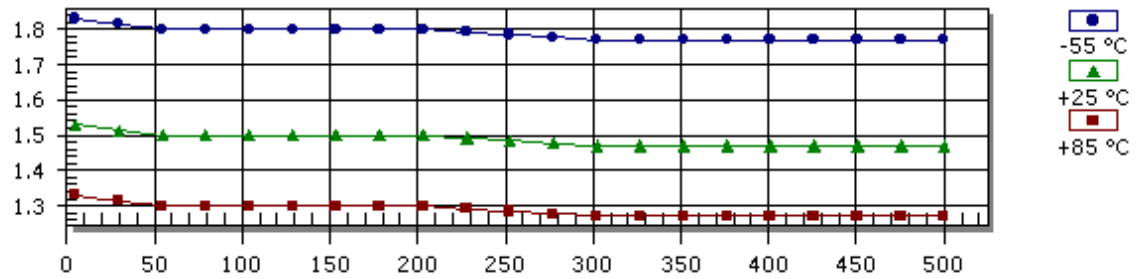
Frequency (MHz)

### Reverse Isolation



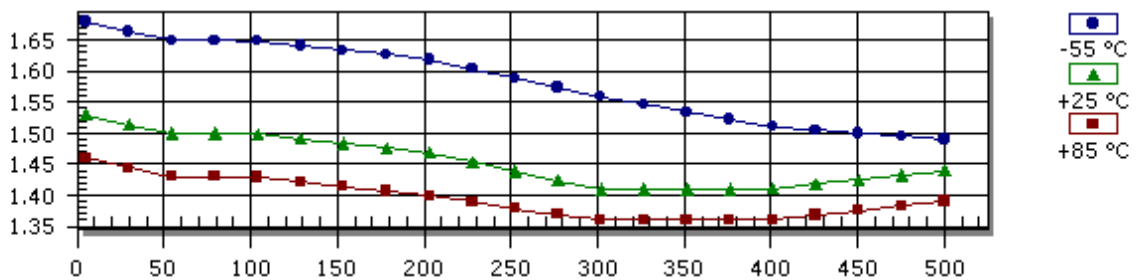
Frequency (MHz)

### 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	0.210	-175.00	6.850	-177.00	0.090	5.00	0.210	-173.00
50.0	0.200	172.00	6.810	171.00	0.090	1.00	0.200	171.00
100.0	0.200	163.00	6.810	161.00	0.090	0.00	0.200	162.00
200.0	0.200	146.00	6.740	141.00	0.100	-1.00	0.190	145.00
300.0	0.190	131.00	6.690	123.00	0.100	-2.00	0.170	132.00
400.0	0.190	116.00	6.750	104.00	0.100	-5.00	0.170	124.00
500.0	0.190	109.00	6.880	84.00	0.110	-7.00	0.180	119.00

## 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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# i2 Technologies US, Inc.

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