

Part/Keyword Search



Detailed Drawing



Printer Friendly Datasheet

## RN6505 / SRN6505\*

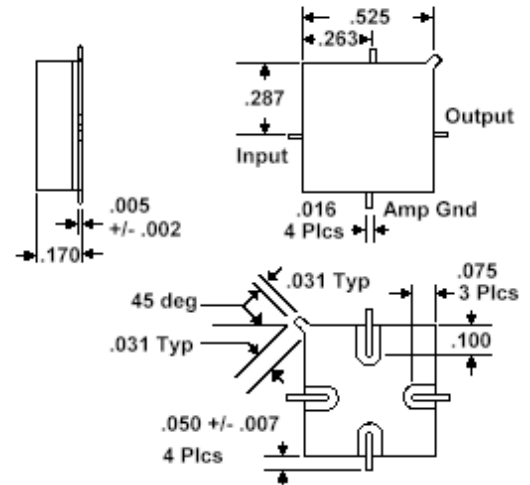
\* Part number for additional environmental screening.

### Performance Data

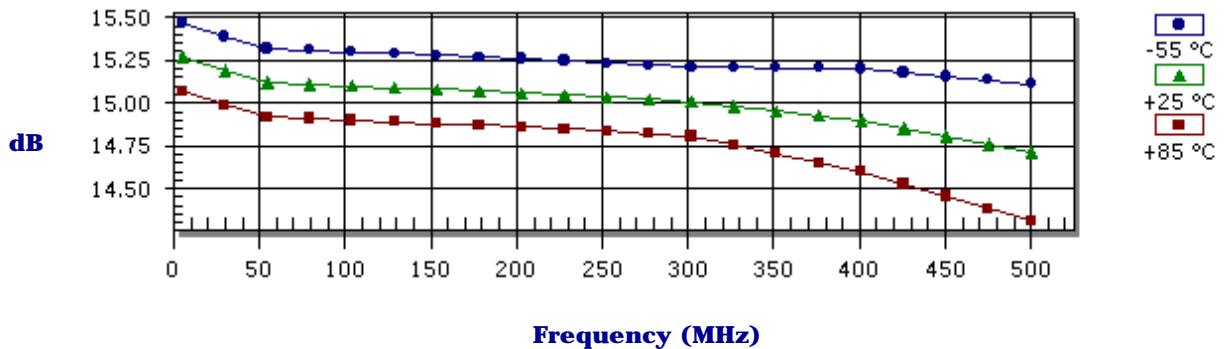
Frequency	5.0 - 500.0 MHz
Gain	15.0 dB Typical 14.0 dB Min
Noise Figure	4.0 dB Typical 5.0 dB Max
P <sub>1dB</sub>	10.0 dBm Typical 8.5 dBm Min
3 <sup>rd</sup> Order Intercept	23.0 dBm Typical
2 <sup>nd</sup> Order Intercept	33.0 dBm Typical
VSWR	1.2/2.0 Input Typ/Max 1.8/2.0 Output Typ/Max
Reverse Isolation	-18.0 dB Typical -16.0 dB Min
Power Supply	15.0 Volts 24.0 mA
Operating Temperature	-55.0 - 85.0 °C

### Package Drawing

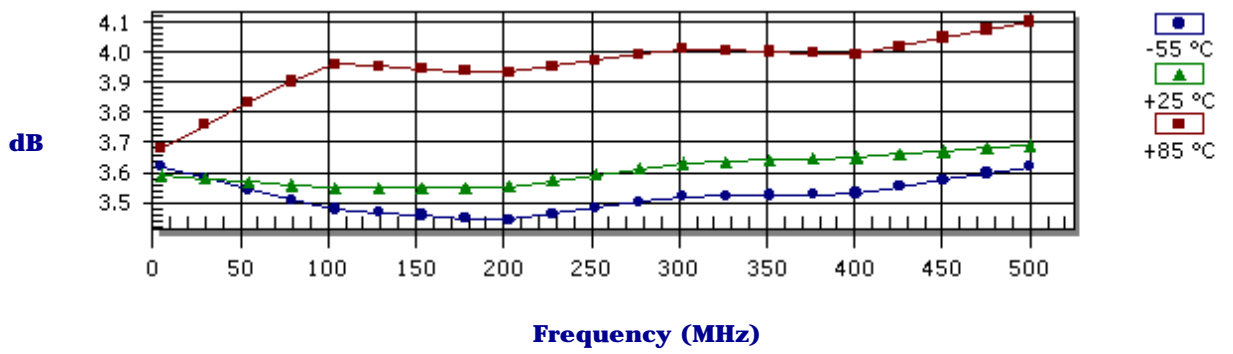
#### SM-19 Surface Mount Package



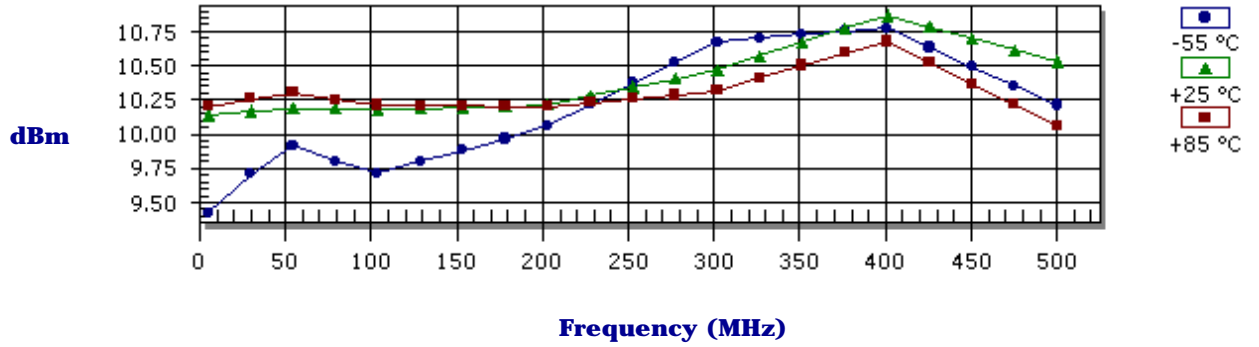
### Gain



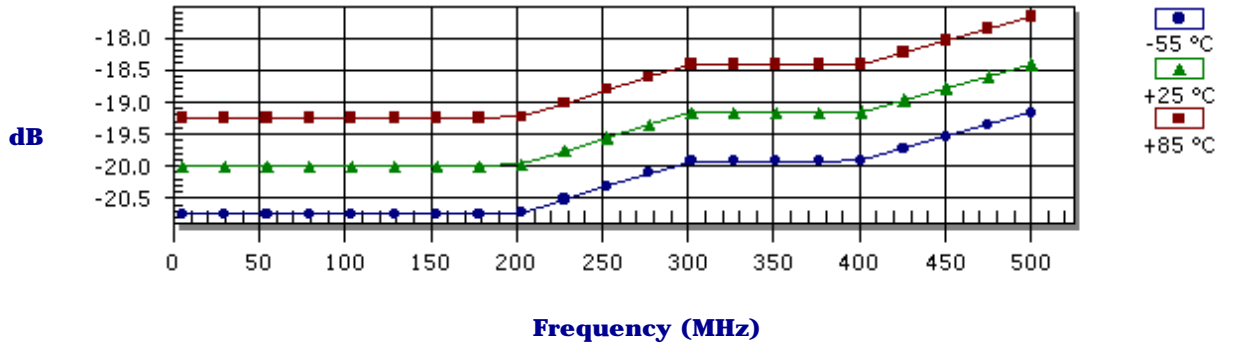
### Noise Figure



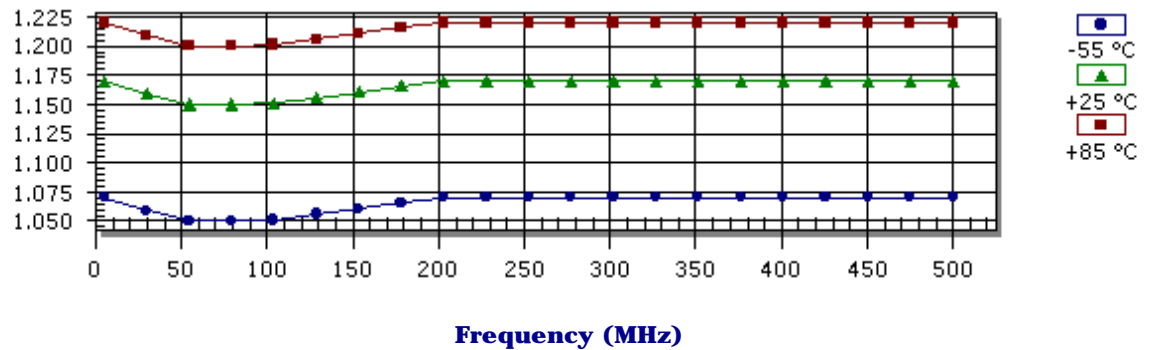
### P<sub>1dB</sub> Compression Point



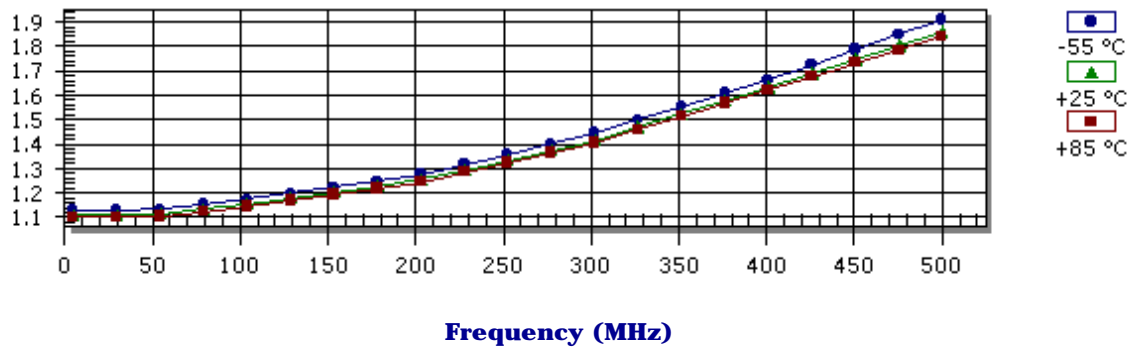
### Reverse Isolation



### Input VSWR



### Output VSWR



### S-Parameters

Frequency	S11 Mag	S11 Ang	S21 Mag	S21 Ang	S12 Mag	S12 Ang	S22 Mag	S22 Ang
5.0	0.080	-3.00	5.800	-178.00	0.100	2.00	0.050	-168.00
50.0	0.070	-7.00	5.700	170.00	0.100	0.00	0.050	-158.00
100.0	0.070	-10.00	5.690	159.00	0.100	-2.00	0.070	-142.00
200.0	0.080	-19.00	5.660	139.00	0.100	-1.00	0.110	-138.00
300.0	0.080	-38.00	5.630	118.00	0.110	-3.00	0.170	-149.00
400.0	0.080	-63.00	5.560	97.00	0.110	-7.00	0.240	-164.00
500.0	0.080	-92.00	5.440	74.00	0.120	-10.00	0.300	179.00

### 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		

# i2 Technologies US, Inc.

## HTML Pages converted to PDF Document

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