

Part/Keyword Search



Detailed Drawing



Printer Friendly Datasheet

## RN6145 / SRN6145\*

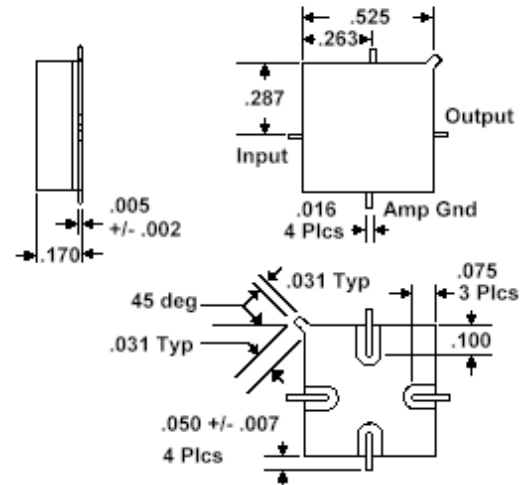
\* Part number for additional environmental screening.

### Performance Data

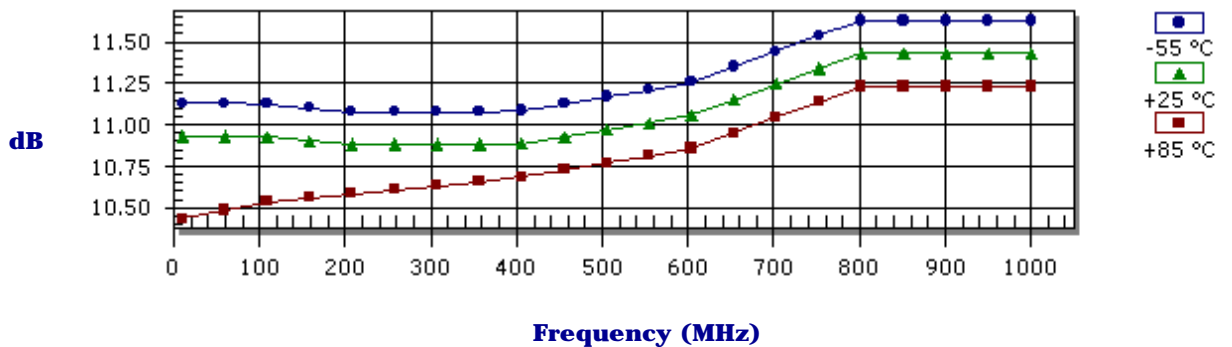
Frequency	10.0 - 1000.0 MHz
Gain	10.7 dB Typical 10.0 dB Min
Noise Figure	3.0 dB Typical 5.0 dB Max
P <sub>1dB</sub>	19.0 dBm Typical 16.0 dBm Min
3 <sup>rd</sup> Order Intercept	35.0 dBm Typical
2 <sup>nd</sup> Order Intercept	46.0 dBm Typical
VSWR	1.5/2.0 Input Typ/Max 2.5/2.0 Output Typ/Max
Reverse Isolation	-12.0 dB Typical -11.0 dB Min
Power Supply	15.0 Volts 50.0 mA
Operating Temperature	-55.0 - 85.0 °C

### Package Drawing

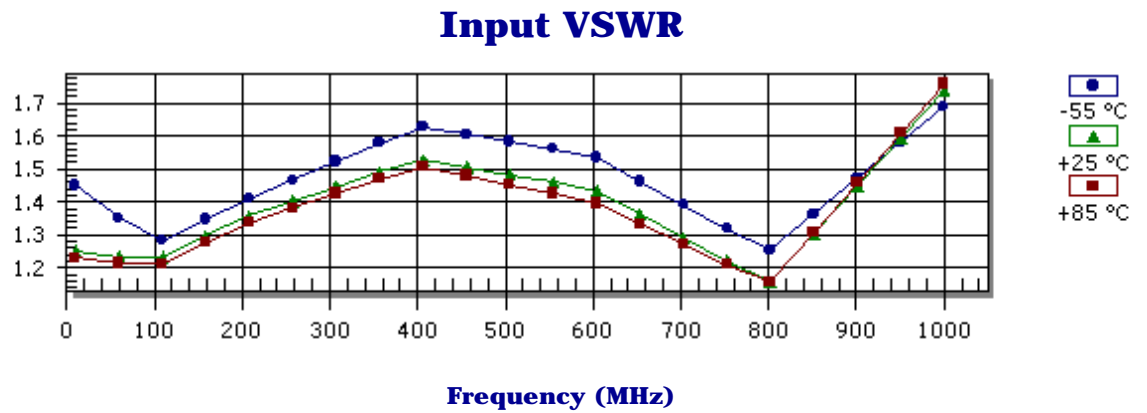
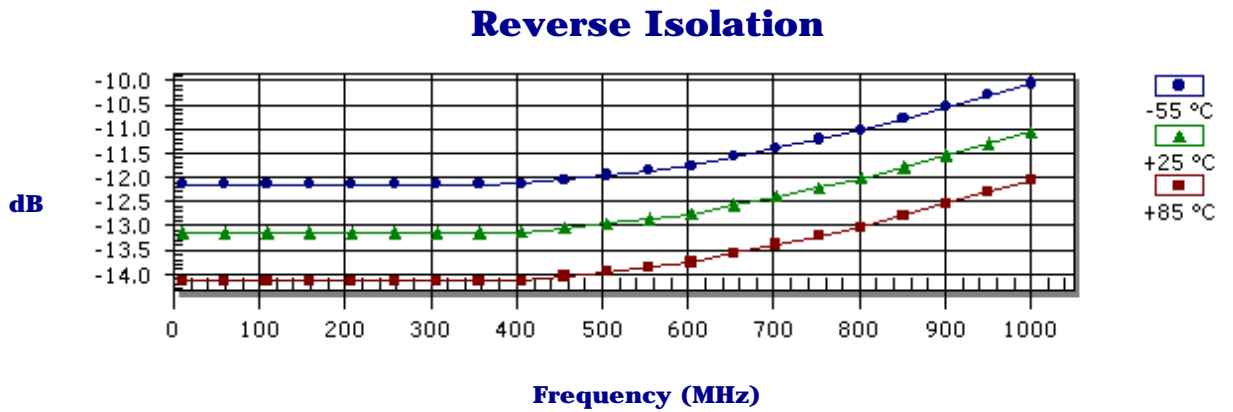
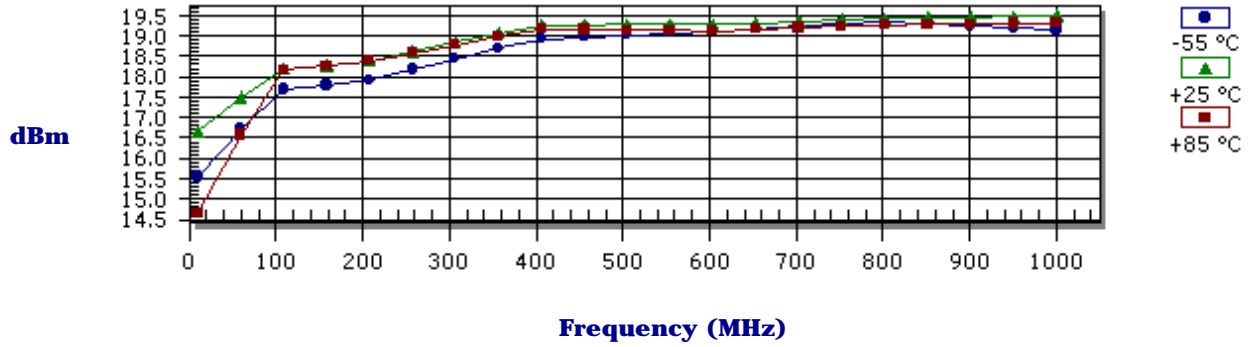
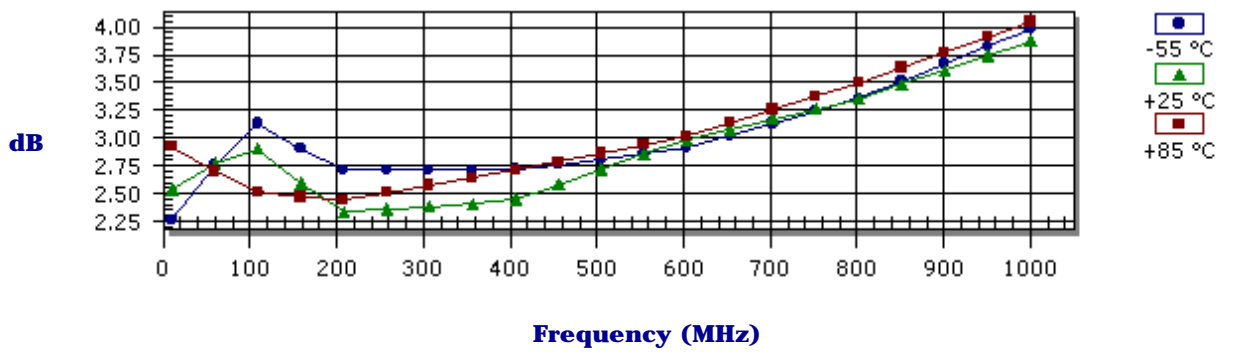
#### SM-19 Surface Mount Package



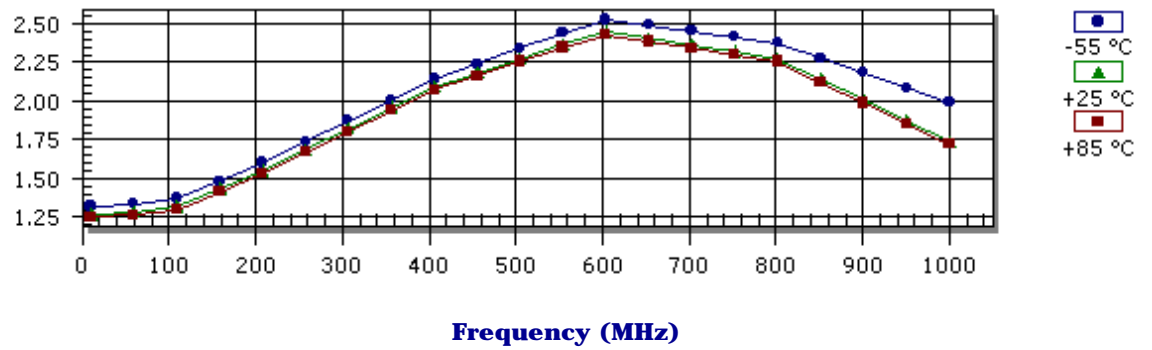
### Gain



### Noise Figure



**Output VSWR**



## S-Parameters

Frequency	S11 Mag	S11 Ang	S21 Mag	S21 Ang	S12 Mag	S12 Ang	S22 Mag	S22 Ang
10.0	0.110	113.00	3.520	-165.00	0.220	-169.00	0.120	100.00
100.0	0.100	81.00	3.520	169.00	0.220	169.00	0.130	77.00
200.0	0.150	56.00	3.500	155.00	0.220	155.00	0.210	56.00
400.0	0.210	20.00	3.500	128.00	0.220	132.00	0.350	25.00
600.0	0.180	-16.00	3.570	102.00	0.230	111.00	0.420	-9.00
800.0	0.070	-101.00	3.730	73.00	0.250	89.00	0.390	-49.00
1000.0	0.270	121.00	3.730	38.00	0.280	63.00	0.270	-108.00

## 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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