

Part/Keyword Search



Detailed Drawing



Printer Friendly Datasheet

RN5519 / SRN5519*

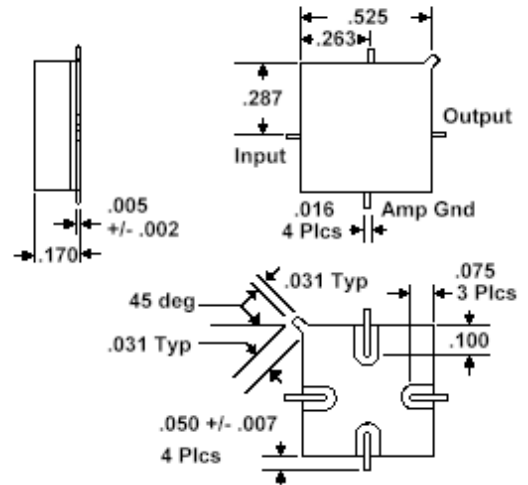
* Part number for additional environmental screening.

Performance Data

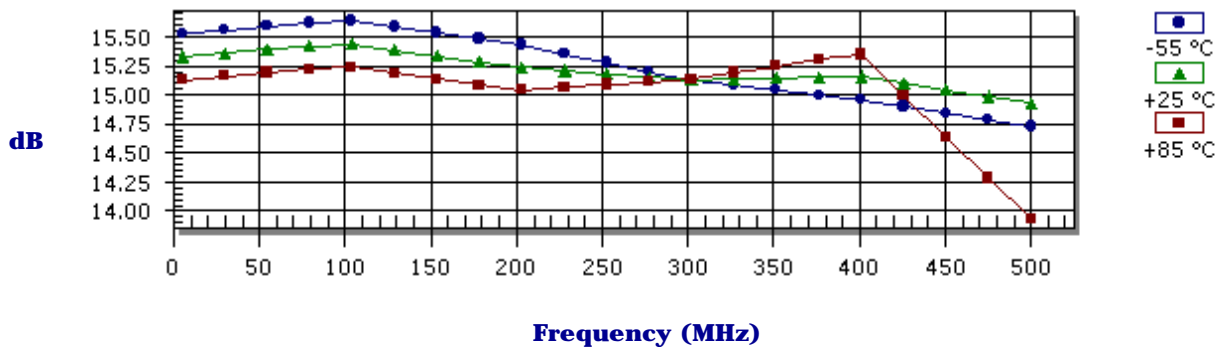
Frequency	5.0 - 500.0 MHz
Gain	15.0 dB Typical 14.0 dB Min
Noise Figure	2.2 dB Typical 3.0 dB Max
P _{1dB}	14.5 dBm Typical 11.5 dBm Min
3 rd Order Intercept	29.0 dBm Typical
2 nd Order Intercept	39.0 dBm Typical
VSWR	1.5/2.0 Input Typ/Max 1.9/2.0 Output Typ/Max
Reverse Isolation	-18.0 dB Typical -17.0 dB Min
Power Supply	5.0 Volts 30.0 mA
Operating Temperature	-55.0 - 85.0 °C

Package Drawing

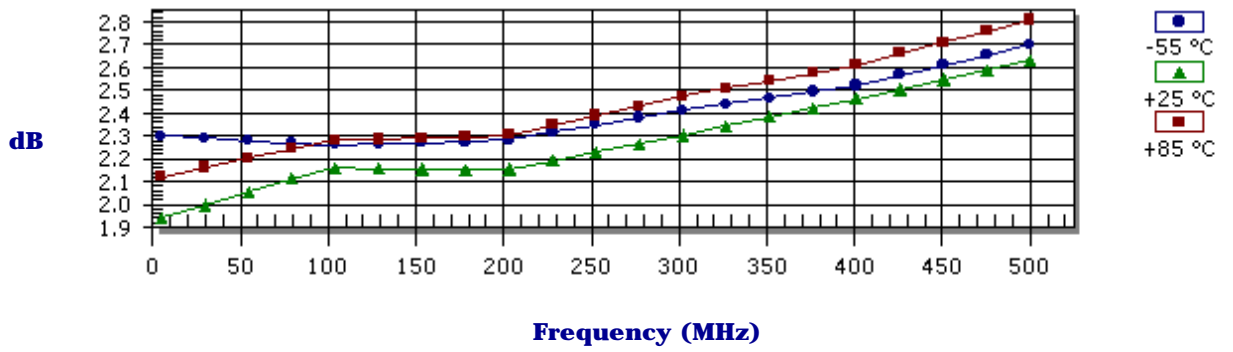
SM-19 Surface Mount Package



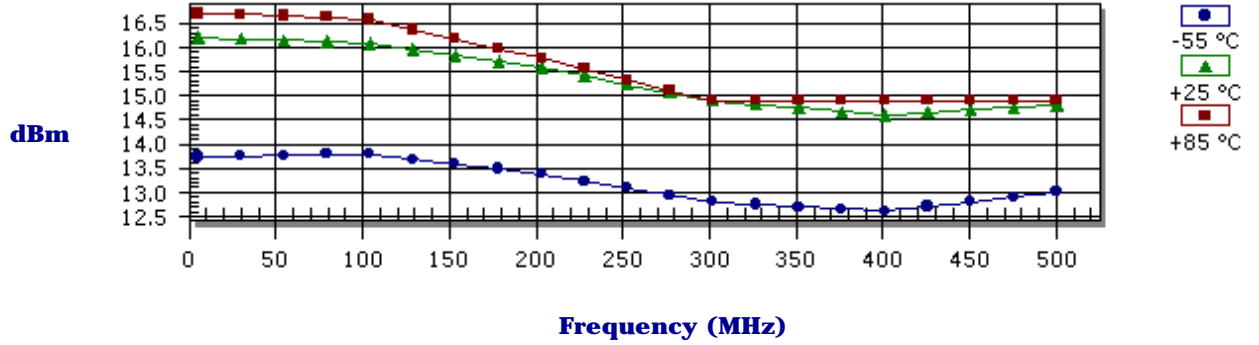
Gain



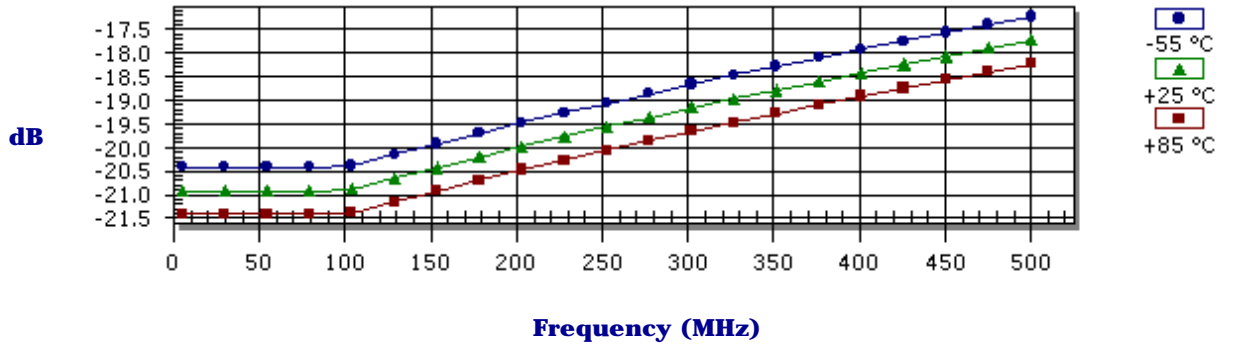
Noise Figure



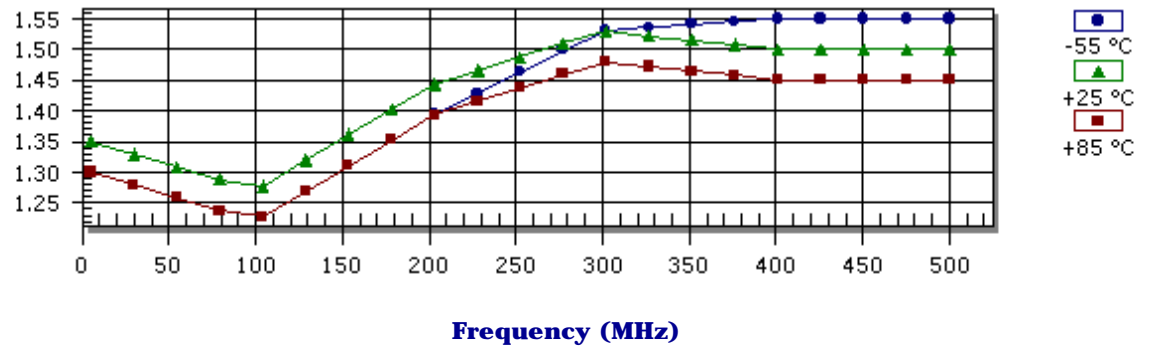
P_{1dB} Compression Point



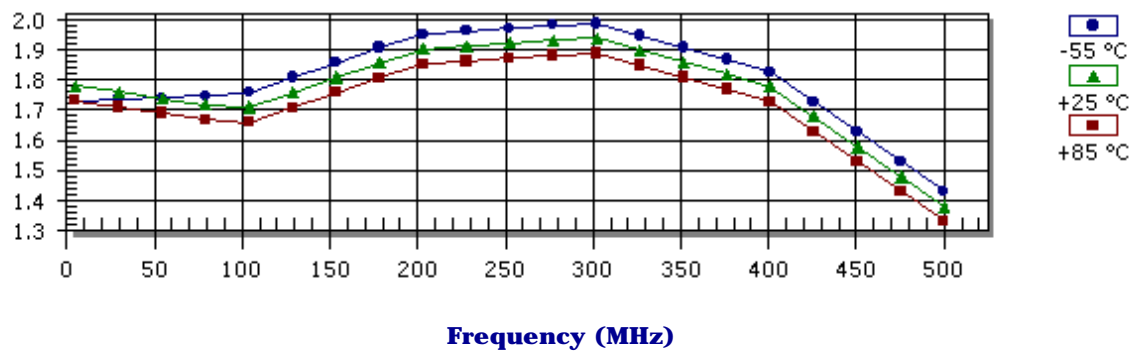
Reverse Isolation



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	0.150	-57.00	5.840	-165.00	0.090	-165.00	0.280	-16.00
100.0	0.120	-105.00	5.920	150.00	0.090	140.00	0.260	-53.00
200.0	0.180	-147.00	5.780	119.00	0.100	105.00	0.310	-92.00
300.0	0.210	175.00	5.710	90.00	0.110	76.00	0.320	-122.00
400.0	0.200	137.00	5.730	57.00	0.120	49.00	0.280	-146.00
500.0	0.200	103.00	5.580	19.00	0.130	24.00	0.160	-163.00

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	10.0 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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