

Part/Keyword Search



Detailed Drawing



Printer Friendly Datasheet

RN7221 / SRN7221*

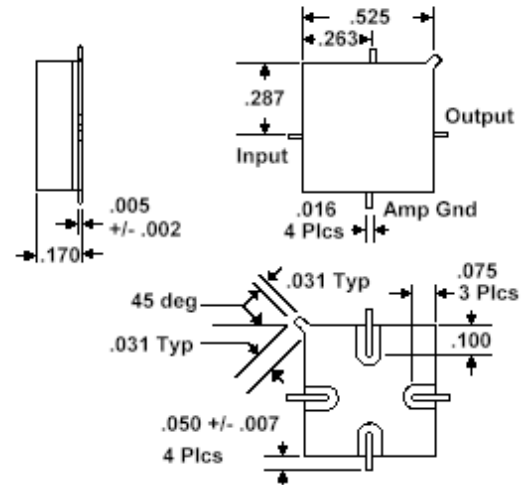
* Part number for additional environmental screening.

Performance Data

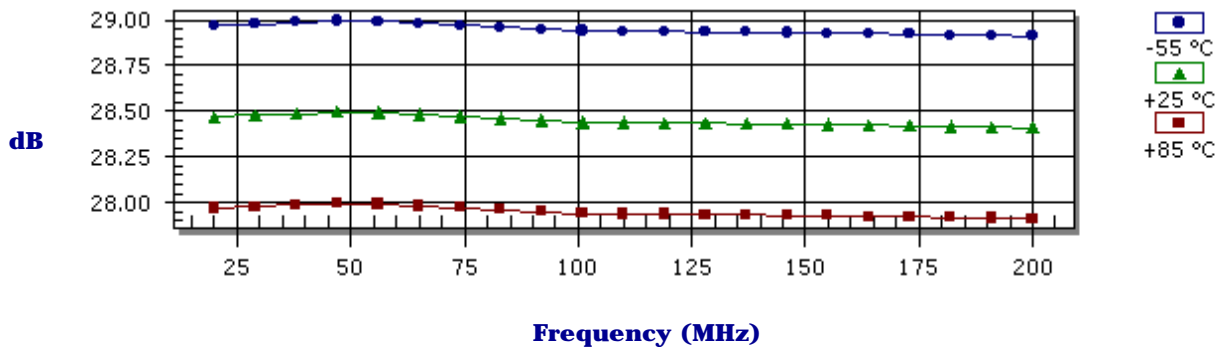
Frequency	20.0 - 200.0 MHz
Gain	28.5 dB Typical 27.0 dB Min
Noise Figure	2.0 dB Typical 3.0 dB Max
P _{1dB}	18.5 dBm Typical 15.0 dBm Min
3 rd Order Intercept	33.0 dBm Typical
2 nd Order Intercept	38.0 dBm Typical
VSWR	1.5/2.0 Input Typ/Max 1.4/2.0 Output Typ/Max
Reverse Isolation	-31.5 dB Typical -30.0 dB Min
Power Supply	15.0 Volts 29.0 mA
Operating Temperature	-55.0 - 85.0 °C

Package Drawing

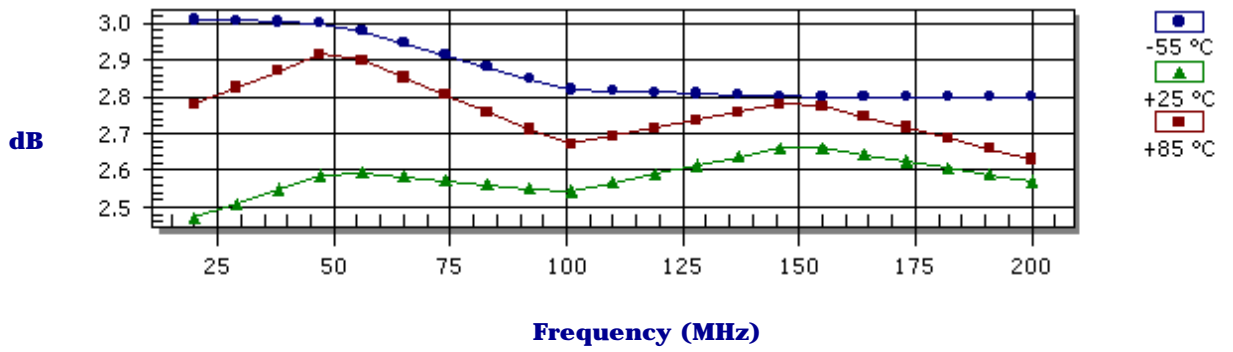
SM-19 Surface Mount Package



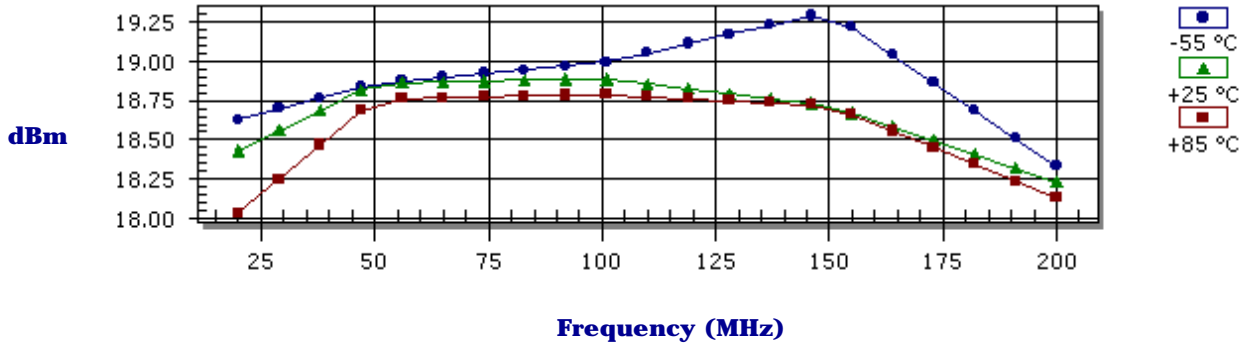
Gain



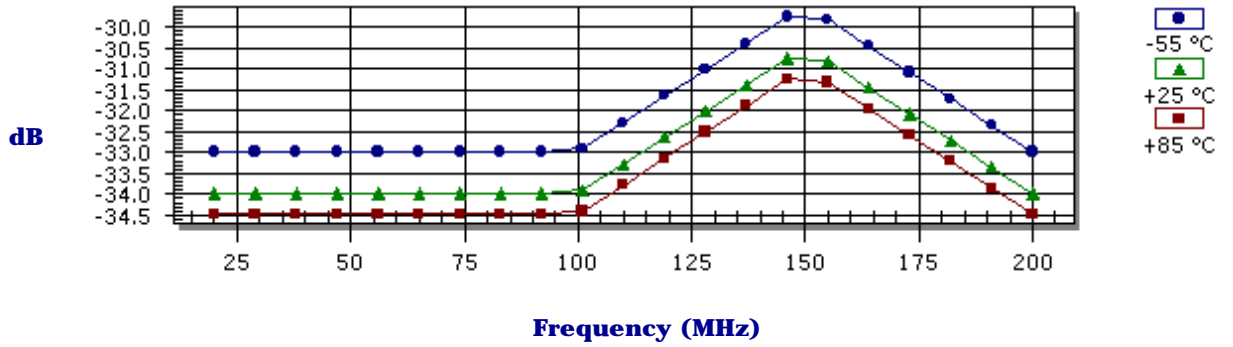
Noise Figure



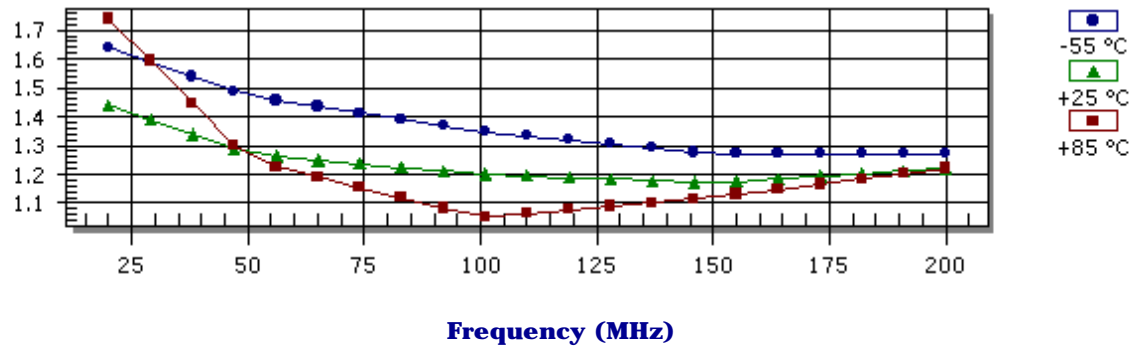
P_{1dB} Compression Point



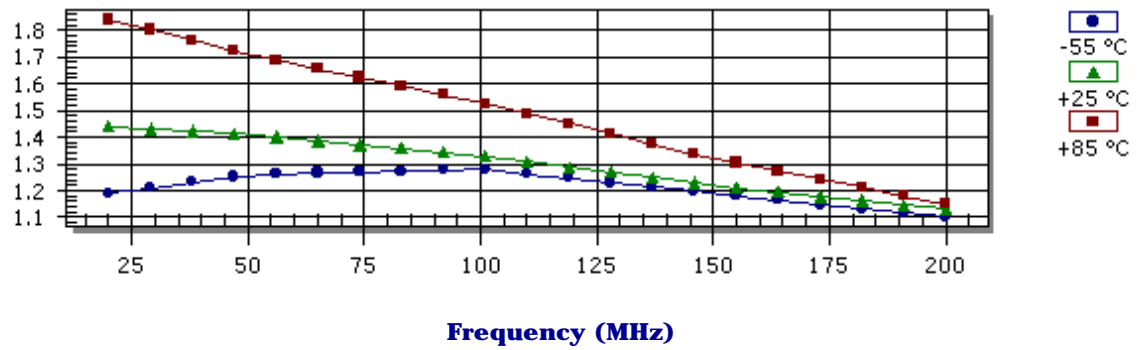
Reverse Isolation



Input VSWR



Output VSWR



S-Parameters

Frequency	S11 Mag	S11 Ang	S21 Mag	S21 Ang	S12 Mag	S12 Ang	S22 Mag	S22 Ang
20.0	0.180	-130.00	26.520	-178.00	0.020	2.00	0.180	153.00
50.0	0.120	-169.00	26.610	163.00	0.020	2.00	0.170	148.00
100.0	0.090	139.00	26.430	135.00	0.020	6.00	0.140	135.00
150.0	0.080	76.00	26.380	110.00	0.030	-5.00	0.100	127.00
200.0	0.100	20.00	26.340	85.00	0.020	-11.00	0.060	132.00

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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