

Part/Keyword Search



Detailed Drawing



Printer Friendly Datasheet

RN5544 / SRN5544*

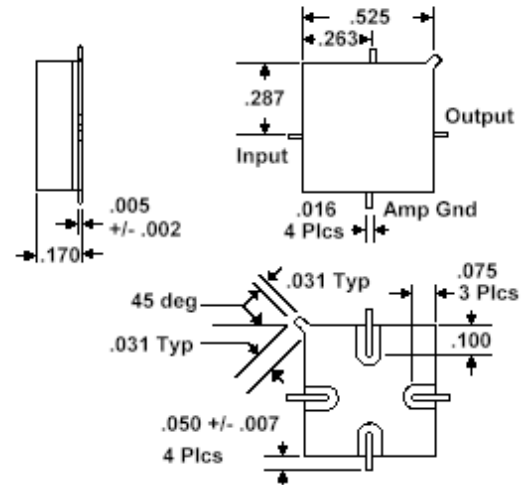
* Part number for additional environmental screening.

Performance Data

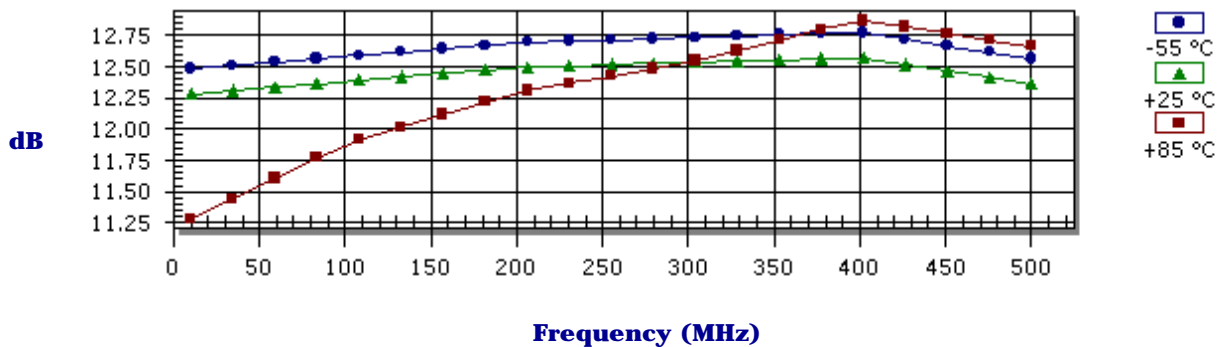
Frequency	10.0 - 500.0 MHz
Gain	12.5 dB Typical 11.0 dB Min
Noise Figure	2.5 dB Typical 3.5 dB Max
P _{1dB}	14.5 dBm Typical 11.5 dBm Min
3 rd Order Intercept	27.0 dBm Typical
2 nd Order Intercept	33.0 dBm Typical
VSWR	1.5/2.0 Input Typ/Max 1.5/2.0 Output Typ/Max
Reverse Isolation	-15.5 dB Typical -14.5 dB Min
Power Supply	5.0 Volts 35.0 mA
Operating Temperature	-55.0 - 85.0 °C

Package Drawing

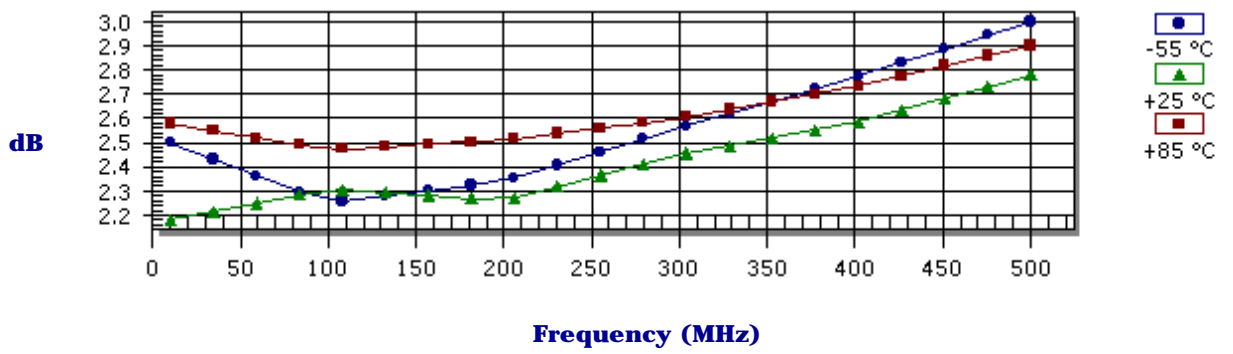
SM-19 Surface Mount Package



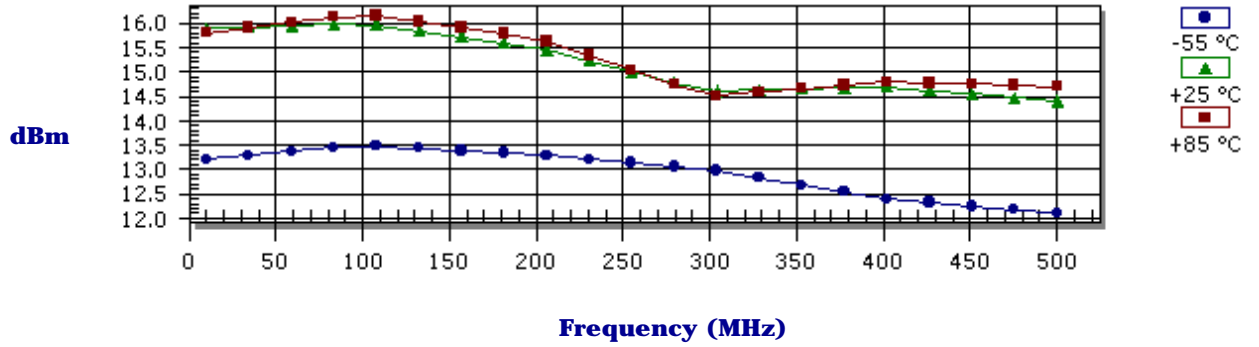
Gain



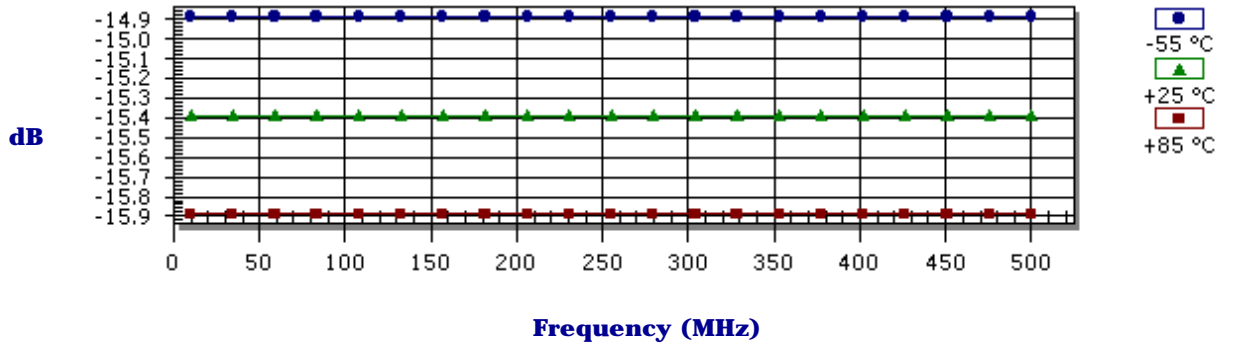
Noise Figure



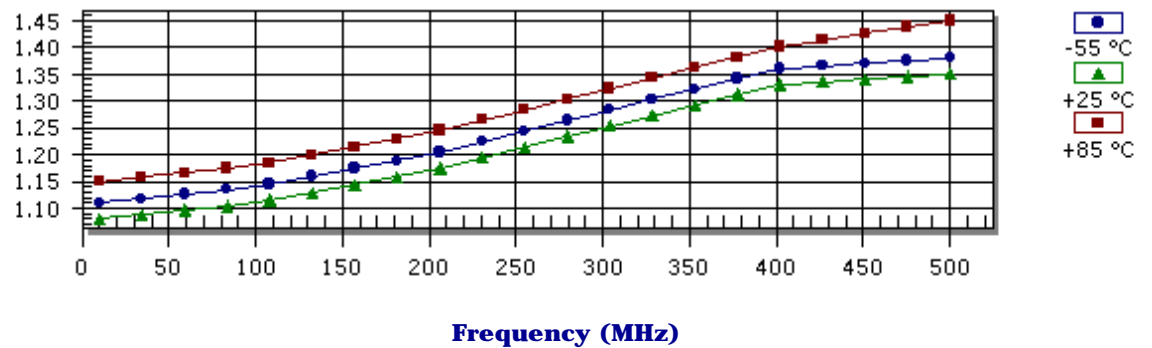
P_{1dB} Compression Point



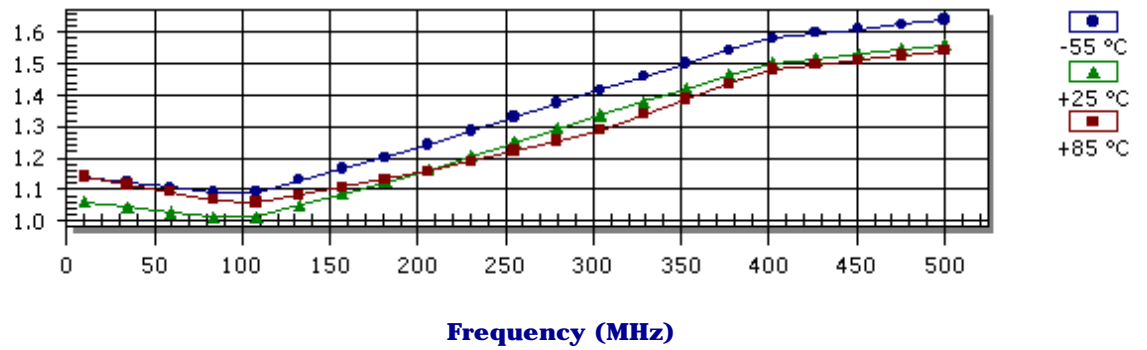
Reverse Isolation



Input VSWR



Output VSWR



S-Parameters

Frequency	S11 Mag	S11 Ang	S21 Mag	S21 Ang	S12 Mag	S12 Ang	S22 Mag	S22 Ang
10.0	0.040	-127.00	4.110	-172.00	0.170	-171.00	0.030	-119.00
100.0	0.050	-167.00	4.160	159.00	0.170	158.00	0.000	56.00
200.0	0.080	169.00	4.210	135.00	0.170	135.00	0.070	-35.00
300.0	0.110	152.00	4.230	112.00	0.170	113.00	0.140	-65.00
400.0	0.140	135.00	4.250	86.00	0.170	92.00	0.200	-85.00
500.0	0.150	131.00	4.150	59.00	0.170	69.00	0.220	-104.00

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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