

Part/Keyword Search



Detailed Drawing



Printer Friendly
Datasheet

RN5817 / SRN5817*

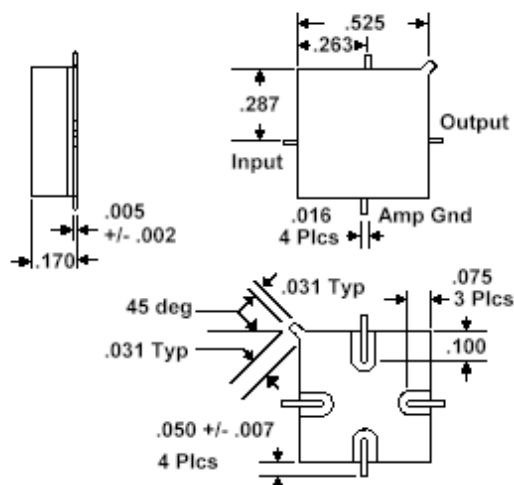
* Part number for additional environmental screening.

Performance Data

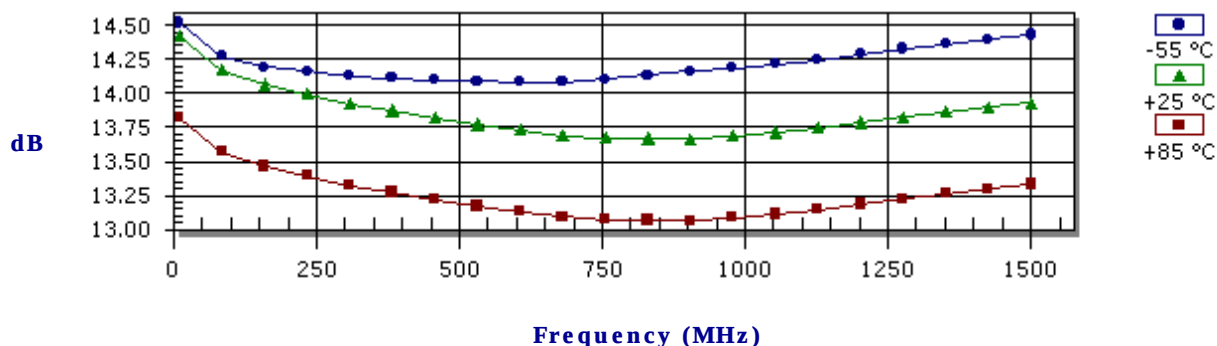
Frequency	10.0 - 1500.0 MHz
Gain	14.0 dB Typical 13.0 dB Min
Noise Figure	6.0 dB Typical 7.0 dB Max
P _{1dB}	23.0 dBm Typical 20.0 dBm Min
3 rd Order Intercept	32.0 dBm Typical
2 nd Order Intercept	44.0 dBm Typical
VSWR	1.5/2.0 Input Typ/Max 1.8/2.0 Output Typ/Max
Reverse Isolation	-20.0 dB Typical -18.0 dB Min
Power Supply	15.0 Volts 98.0 mA
Operating Temperature	-55.0 - 85.0 °C

Package Drawing

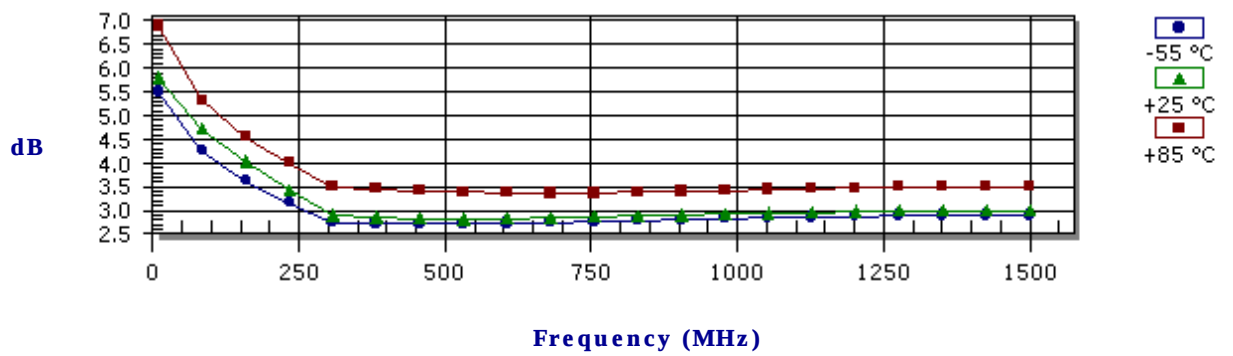
SM-19 Surface Mount Package



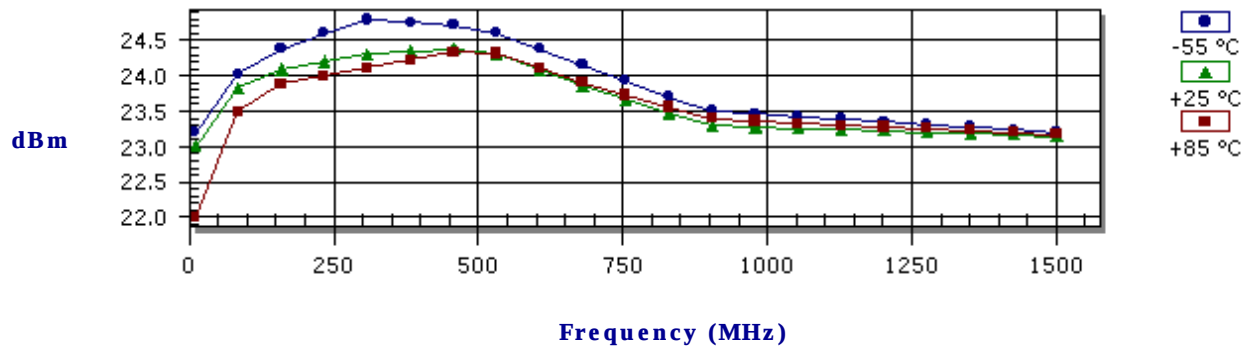
Gain



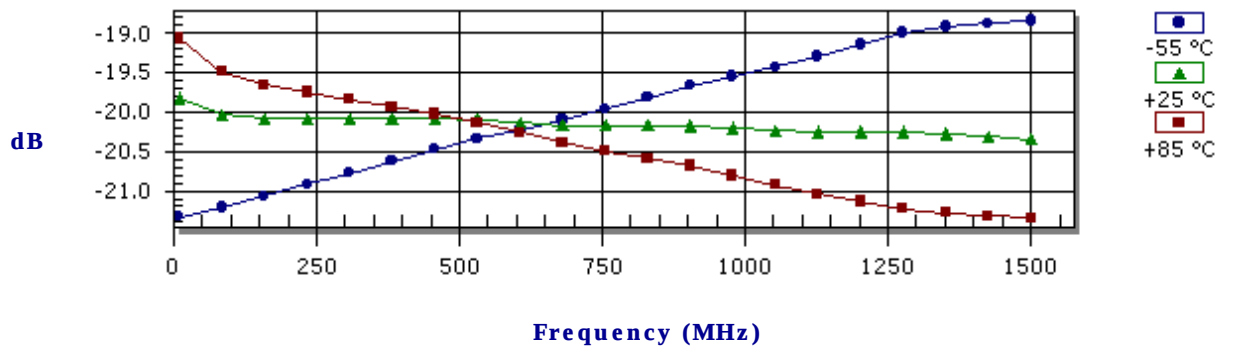
Noise Figure



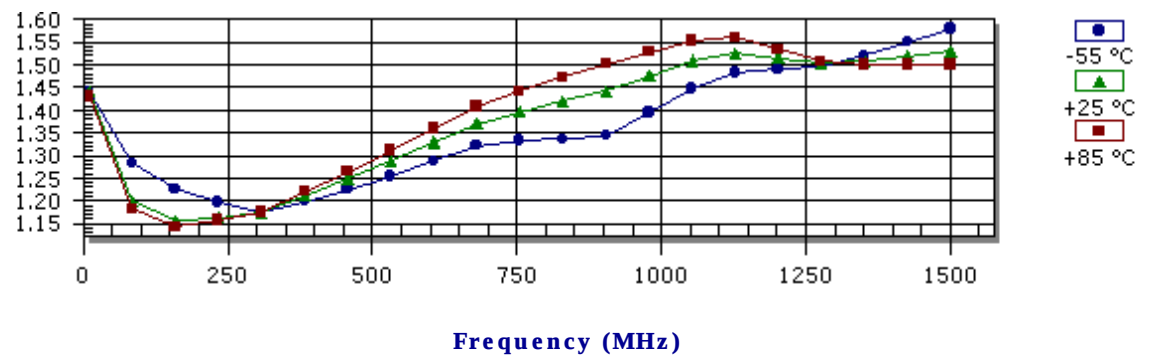
P_{1dB} Compression Point



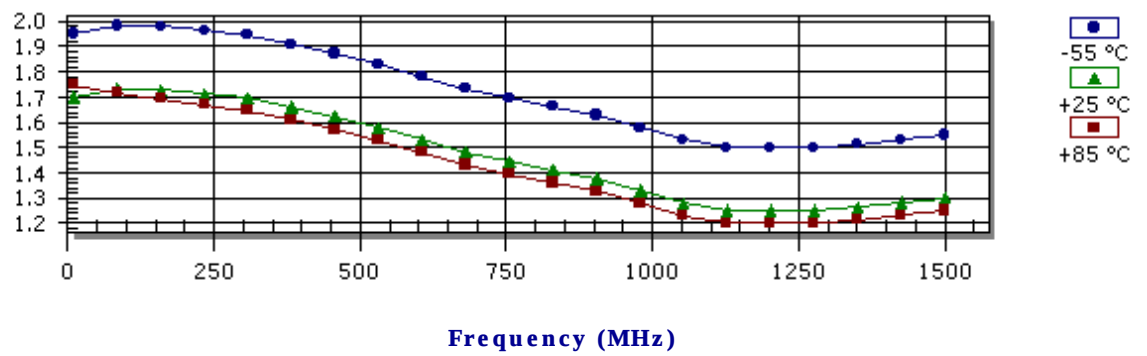
Reverse Isolation



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	0.180	-114.00	5.260	-167.00	0.102	7.00	0.260	171.00
100.0	0.070	-165.00	5.080	171.00	0.099	-4.00	0.270	173.00
300.0	0.080	-132.00	4.970	152.00	0.099	-12.00	0.260	159.00
500.0	0.120	-127.00	4.890	134.00	0.099	-22.00	0.230	145.00
700.0	0.160	-124.00	4.830	117.00	0.098	-32.00	0.190	131.00
900.0	0.180	-130.00	4.820	98.00	0.098	-42.00	0.160	115.00
1100.0	0.210	-130.00	4.860	79.00	0.097	-54.00	0.110	96.00
1300.0	0.200	-131.00	4.920	59.00	0.097	-67.00	0.110	73.00
1500.0	0.210	-131.00	4.970	35.00	0.096	-83.00	0.130	40.00

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	17.0 Volts
Continuous RF Input Power	20.0 dBm	Short Term RF Input Power (1 minute max)	200.0 mW
Maximum Peak Power (3 µsec max)	0.5 W		

Amplifonix | 2707 Black Lake Place | Philadelphia, PA 19154
Tel: 215.464.4000 | FAX: 215.464.4001 | Email: info@amplifonix.com

i2 Technologies US, Inc.

HTML Pages converted to PDF Document

This document contain component information from the manufacturer's website which are not available in a revision controlled document from the manufacturer. To facilitate the addition of these parts into the Electronics Database, we are converting the HTML pages related to that part, from the manufacturer's website into Adobe PDF format. The contents of this document is based on the information provided on the manufacturer's website, therefore the information may have been changed by the manufacturer since this was created.

