

# AM-1309

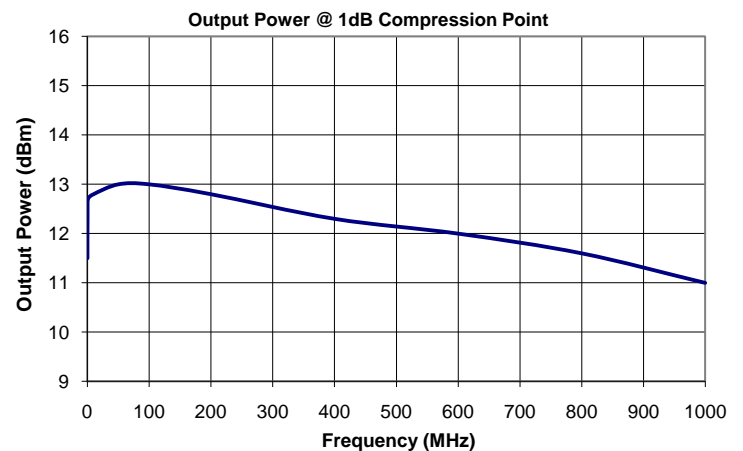
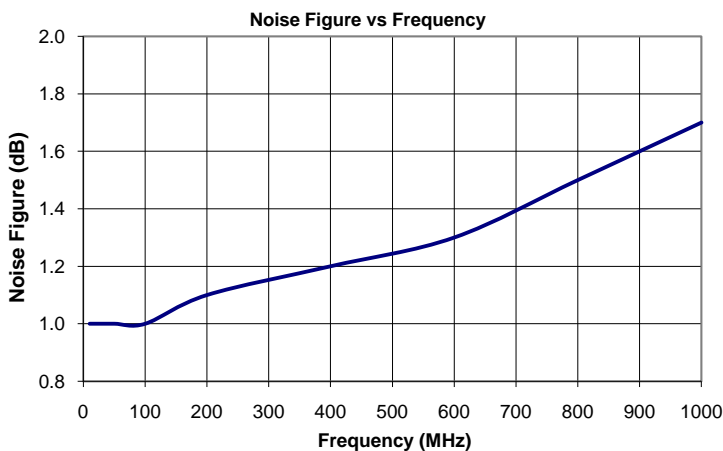
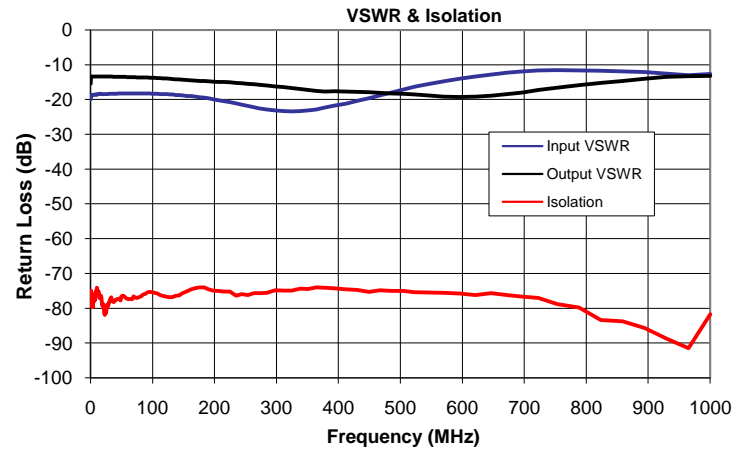
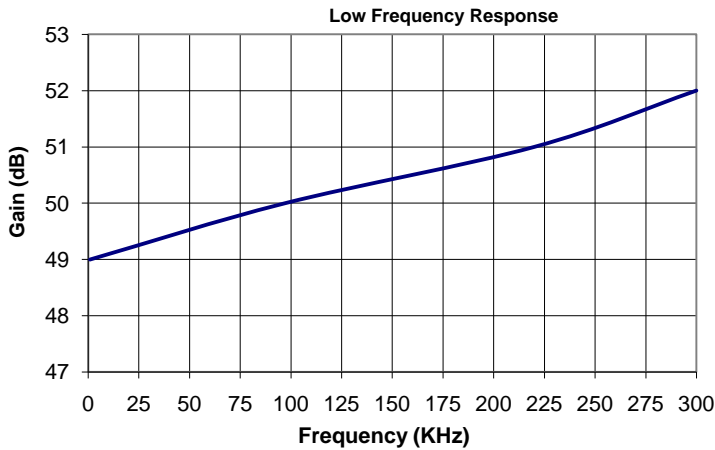
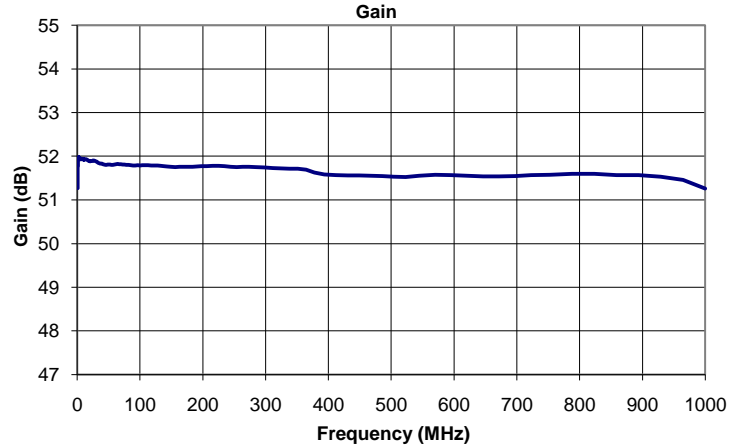
## Features

- 3-Year Warranty
- Excellent Gain Flatness
- Response to <1.0 KHz
- Internally regulated to +12V
- Reverse voltage protected
- Input Limiter Protected

Parameter	Specification
Frequency Range	1 KHz to 1 GHz
Gain	50 dB Typ.
Gain Flatness	± 1.0 dB Max.
Input VSWR	2.0:1 Max.
Output VSWR	2.0:1 Max.
*Noise Figure (dB)	1.3, 1.4, 1.8
*Output P1dB	+11, +11, +10
DC Voltage	+15 to +30 (Marked for +15V)
DC Current	100 mA

\*Noise Figure at 10 MHz, 500 MHz & 1000 MHz

\*P1dB at 100 KHz, 500 MHz & 1000 MHz



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# AM-1309

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay Ns
0.30	51.3	-77.1	-20.0	-15.4	1.3
0.31	51.3	-77.6	-19.9	-15.3	62.4
0.33	51.4	-78.7	-19.8	-15.2	73.7
0.34	51.4	-79.2	-19.8	-15.1	31.2
0.36	51.5	-77.8	-19.8	-15.0	28.3
0.37	51.5	-78.6	-19.7	-14.9	28.4
0.38	51.5	-78.8	-19.7	-14.8	32.5
0.40	51.6	-78.6	-19.6	-14.7	16.4
0.41	51.6	-77.7	-19.6	-14.6	7.2
0.43	51.6	-77.3	-19.6	-14.5	13.1
0.45	51.7	-76.6	-19.6	-14.4	28.4
0.47	51.7	-76.2	-19.5	-14.4	31.4
0.49	51.7	-76.6	-19.5	-14.3	19.9
0.51	51.7	-77.0	-19.5	-14.2	22.3
0.53	51.7	-76.3	-19.4	-14.2	28.6
0.55	51.8	-76.1	-19.4	-14.1	21.2
0.57	51.8	-76.9	-19.4	-14.1	19.2
0.60	51.8	-77.5	-19.3	-14.0	21.1
0.63	51.8	-76.9	-19.3	-14.0	10.7
0.65	51.8	-77.9	-19.2	-13.9	17.4
0.68	51.8	-77.5	-19.2	-13.9	14.3
0.71	51.8	-77.8	-19.2	-13.9	12.0
0.74	51.8	-77.4	-19.2	-13.8	14.9
0.76	51.9	-77.2	-19.2	-13.8	12.9
0.79	51.9	-77.1	-19.1	-13.7	13.9
0.83	51.9	-76.2	-19.1	-13.7	15.9
0.87	51.9	-76.1	-19.1	-13.7	18.3
0.91	51.9	-76.4	-19.1	-13.7	7.6
0.94	51.9	-75.5	-19.0	-13.6	13.2
0.98	51.9	-75.5	-19.0	-13.6	8.1
1.02	51.9	-75.0	-19.0	-13.6	9.7
1.05	51.9	-75.1	-19.0	-13.6	8.6
1.10	51.9	-75.5	-19.0	-13.6	6.8
1.15	51.9	-75.4	-18.9	-13.6	9.7
1.20	51.9	-76.4	-18.9	-13.5	3.7
1.25	51.9	-76.9	-18.9	-13.5	7.5
1.30	52.0	-77.2	-18.9	-13.5	3.9
1.36	52.0	-77.7	-18.8	-13.5	7.3
1.41	52.0	-78.4	-18.8	-13.5	0.4
1.46	52.0	-78.6	-18.8	-13.5	7.6
1.52	52.0	-78.6	-18.8	-13.5	5.6
1.59	52.0	-78.6	-18.8	-13.4	3.3
1.66	52.0	-79.4	-18.8	-13.4	4.8
1.73	52.0	-78.1	-18.7	-13.4	4.3
1.80	52.0	-77.8	-18.7	-13.4	2.0
1.88	51.9	-77.8	-18.7	-13.4	5.9
1.95	52.0	-77.9	-18.7	-13.4	2.0
2.02	52.0	-77.0	-18.7	-13.4	4.0
2.10	52.0	-76.8	-18.7	-13.4	2.2
2.20	52.0	-76.8	-18.7	-13.4	4.2
2.30	52.0	-76.4	-18.7	-13.4	3.8
2.40	52.0	-77.3	-18.7	-13.4	0.9
2.50	52.0	-77.6	-18.7	-13.4	2.7

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay Ns
2.59	52.0	-77.5	-18.7	-13.4	2.0
2.69	52.0	-77.9	-18.7	-13.4	2.7
2.79	52.0	-77.5	-18.7	-13.4	2.2
2.91	52.0	-78.6	-18.7	-13.4	2.5
3.04	51.9	-78.8	-18.7	-13.4	2.6
3.18	51.9	-79.0	-18.7	-13.4	1.0
3.32	51.9	-79.7	-18.7	-13.4	2.5
3.45	51.9	-78.7	-18.7	-13.4	2.6
3.59	52.0	-78.9	-18.7	-13.4	3.4
3.73	52.0	-78.6	-18.7	-13.4	3.1
3.86	52.0	-77.7	-18.7	-13.4	1.8
4.02	52.0	-77.7	-18.7	-13.4	2.7
4.21	52.0	-77.4	-18.6	-13.4	2.1
4.40	52.0	-77.5	-18.7	-13.4	2.3
4.59	52.0	-77.5	-18.7	-13.4	2.5
4.78	51.9	-76.9	-18.7	-13.4	0.9
4.97	51.9	-76.4	-18.7	-13.4	1.9
5.15	51.9	-76.2	-18.7	-13.4	1.4
5.34	51.9	-76.4	-18.7	-13.4	1.8
5.56	51.9	-77.5	-18.6	-13.4	1.5
5.82	51.9	-78.1	-18.6	-13.4	1.9
6.09	51.9	-77.7	-18.6	-13.4	1.7
6.35	51.9	-77.5	-18.6	-13.4	1.0
6.61	51.9	-77.4	-18.6	-13.4	1.8
6.87	51.9	-77.5	-18.6	-13.4	1.9
7.13	51.9	-77.6	-18.5	-13.4	1.4
7.39	51.9	-77.2	-18.5	-13.4	1.7
7.70	51.9	-76.8	-18.5	-13.4	1.4
8.06	51.9	-76.1	-18.6	-13.4	1.4
8.42	51.9	-75.6	-18.6	-13.4	1.0
8.78	51.9	-75.2	-18.6	-13.4	1.3
9.14	51.9	-75.2	-18.6	-13.4	1.8
9.50	51.9	-74.8	-18.6	-13.4	1.6
9.86	51.9	-74.1	-18.6	-13.4	1.6
10.2	51.9	-74.1	-18.6	-13.4	1.3
10.6	51.9	-74.4	-18.6	-13.4	1.7
11.1	51.9	-75.0	-18.6	-13.4	1.4
11.6	51.9	-75.3	-18.5	-13.4	1.7
12.1	51.9	-75.1	-18.5	-13.4	1.9
12.6	51.9	-75.1	-18.5	-13.4	1.5
13.1	51.9	-75.3	-18.4	-13.4	1.3
13.6	51.9	-76.0	-18.4	-13.4	1.5
14.1	51.9	-77.0	-18.4	-13.4	1.4
14.7	51.9	-77.1	-18.4	-13.4	1.8
15.4	51.9	-76.6	-18.4	-13.4	1.3
16.1	51.9	-76.5	-18.4	-13.4	1.5
16.8	51.9	-76.4	-18.4	-13.4	1.3
17.5	51.9	-76.7	-18.4	-13.4	1.4
18.3	51.9	-78.5	-18.4	-13.4	1.5
19.0	51.9	-79.2	-18.4	-13.4	1.6
19.7	51.9	-78.9	-18.5	-13.4	1.4
20.4	51.9	-78.8	-18.5	-13.4	1.4
21.2	51.9	-80.2	-18.5	-13.4	1.4

# AM-1309

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay Ns
22.2	51.9	-81.4	-18.5	-13.4	1.4
23.2	51.9	-81.9	-18.4	-13.4	1.4
24.2	51.9	-81.4	-18.4	-13.4	1.8
25.2	51.9	-81.3	-18.4	-13.4	1.6
26.2	51.9	-79.6	-18.4	-13.4	1.5
27.2	51.9	-78.8	-18.4	-13.4	1.4
28.2	51.9	-79.4	-18.4	-13.4	1.5
29.3	51.9	-78.8	-18.4	-13.4	1.5
30.7	51.9	-77.8	-18.3	-13.4	1.5
32.1	51.9	-77.1	-18.3	-13.4	1.5
33.5	51.8	-76.9	-18.4	-13.4	1.5
34.9	51.8	-78.0	-18.3	-13.4	1.5
36.2	51.8	-78.2	-18.3	-13.5	1.5
37.6	51.8	-78.2	-18.3	-13.5	1.4
39.0	51.8	-77.9	-18.3	-13.5	1.6
40.6	51.8	-77.5	-18.3	-13.5	1.4
42.5	51.8	-77.5	-18.3	-13.5	1.5
44.4	51.8	-77.3	-18.3	-13.5	1.4
46.3	51.8	-77.2	-18.3	-13.5	1.5
48.2	51.8	-77.8	-18.2	-13.5	1.4
50.1	51.8	-76.5	-18.2	-13.5	1.3
52.0	51.8	-76.4	-18.2	-13.5	1.4
53.9	51.8	-76.5	-18.3	-13.5	1.4
56.2	51.8	-77.0	-18.3	-13.5	1.4
58.8	51.8	-77.2	-18.2	-13.5	1.4
61.4	51.8	-77.4	-18.3	-13.6	1.5
64.1	51.8	-77.3	-18.3	-13.6	1.4
66.7	51.8	-77.4	-18.3	-13.6	1.5
69.3	51.8	-76.5	-18.3	-13.6	1.4
72.0	51.8	-77.0	-18.3	-13.6	1.4
74.6	51.8	-77.0	-18.3	-13.6	1.4
77.7	51.8	-76.8	-18.2	-13.7	1.5
81.3	51.8	-76.6	-18.2	-13.7	1.4
85.0	51.8	-76.0	-18.2	-13.7	1.5
88.6	51.8	-75.9	-18.3	-13.7	1.5
92.2	51.8	-75.3	-18.3	-13.7	1.4
95.9	51.8	-75.3	-18.3	-13.7	1.4
99.5	51.8	-75.4	-18.3	-13.8	1.5
103.2	51.8	-75.6	-18.3	-13.8	1.5
107.5	51.8	-75.8	-18.3	-13.8	1.4
112.5	51.8	-76.2	-18.4	-13.9	1.4
117.5	51.8	-76.5	-18.5	-13.9	1.5
122.6	51.8	-76.6	-18.5	-14.0	1.4
127.6	51.8	-76.8	-18.5	-14.1	1.4
132.6	51.8	-76.8	-18.6	-14.1	1.5
137.7	51.8	-76.4	-18.7	-14.2	1.5
142.7	51.8	-76.3	-18.8	-14.3	1.4
148.6	51.8	-75.6	-18.8	-14.4	1.4
155.6	51.8	-75.1	-19.0	-14.4	1.4
162.6	51.8	-74.5	-19.0	-14.5	1.4
169.5	51.8	-74.1	-19.2	-14.6	1.4
176.5	51.8	-74.0	-19.3	-14.7	1.4
183.5	51.8	-74.0	-19.5	-14.7	1.4

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay Ns
190.5	51.8	-74.5	-19.7	-14.8	1.4
197.4	51.8	-74.9	-19.9	-14.9	1.4
205.6	51.8	-75.0	-20.2	-14.9	1.4
215.3	51.8	-75.1	-20.4	-15.0	1.5
224.9	51.8	-75.2	-20.8	-15.1	1.5
234.5	51.8	-76.3	-21.1	-15.2	1.4
244.2	51.8	-75.9	-21.5	-15.3	1.4
253.8	51.8	-76.2	-21.9	-15.5	1.5
263.5	51.8	-75.7	-22.2	-15.6	1.5
273.1	51.8	-75.6	-22.6	-15.8	1.5
284.4	51.7	-75.6	-22.9	-16.0	1.5
297.8	51.7	-74.8	-23.2	-16.2	1.5
311.1	51.7	-74.9	-23.4	-16.5	1.4
324.4	51.7	-74.9	-23.4	-16.7	1.5
337.8	51.7	-74.3	-23.3	-17.0	1.5
351.1	51.7	-74.4	-23.2	-17.3	1.5
364.5	51.7	-74.0	-22.8	-17.6	1.5
377.8	51.6	-74.1	-22.3	-17.7	1.5
393.4	51.6	-74.3	-21.8	-17.6	1.4
411.9	51.6	-74.5	-21.2	-17.7	1.4
430.3	51.6	-74.7	-20.4	-17.8	1.4
448.8	51.6	-75.3	-19.6	-17.9	1.4
467.2	51.6	-74.8	-18.8	-18.1	1.4
485.7	51.5	-75.0	-18.0	-18.3	1.4
504.1	51.5	-75.0	-17.1	-18.4	1.4
522.6	51.5	-75.3	-16.3	-18.5	1.4
544.2	51.6	-75.5	-15.5	-18.8	1.4
569.8	51.6	-75.5	-14.8	-19.2	1.5
595.3	51.6	-75.8	-14.0	-19.3	1.5
620.8	51.6	-76.2	-13.4	-19.2	1.5
646.3	51.5	-75.7	-12.8	-18.9	1.5
671.9	51.5	-76.2	-12.3	-18.5	1.5
697.4	51.5	-76.7	-11.9	-18.0	1.5
722.9	51.6	-77.0	-11.6	-17.3	1.5
752.8	51.6	-78.8	-11.5	-16.6	1.5
788.1	51.6	-79.7	-11.6	-15.9	1.6
823.5	51.6	-83.4	-11.7	-15.2	1.6
858.8	51.6	-83.7	-11.9	-14.7	1.6
894.1	51.6	-85.7	-12.1	-14.0	1.7
929.4	51.5	-88.7	-12.5	-13.5	1.7
964.7	51.5	-91.5	-13.0	-13.3	1.7
1000.0	51.3	-81.8	-12.7	-13.2	1.8