

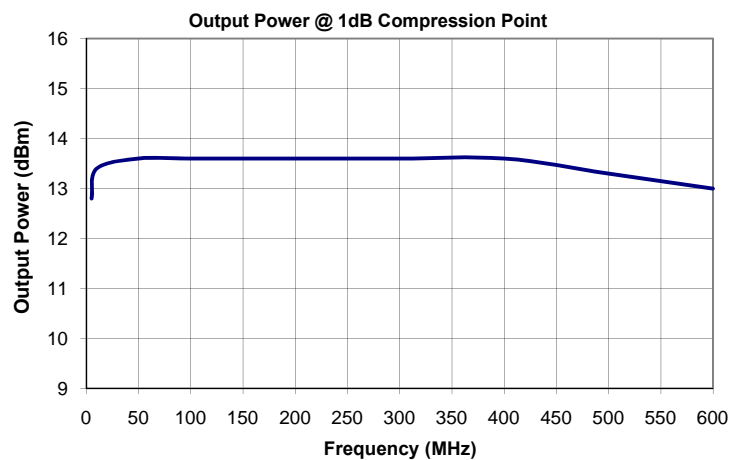
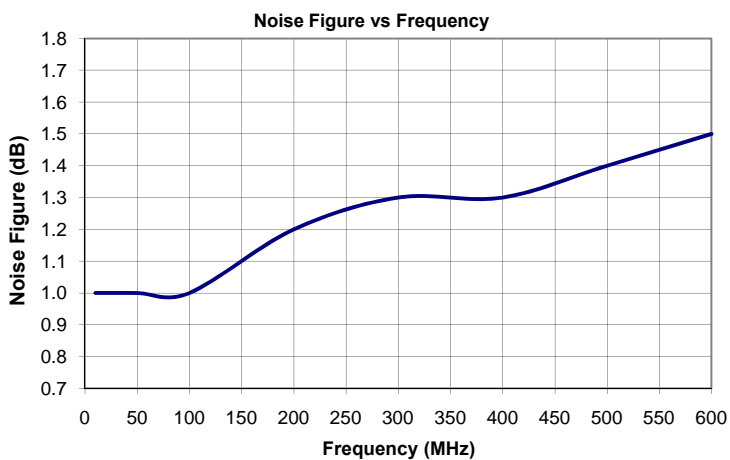
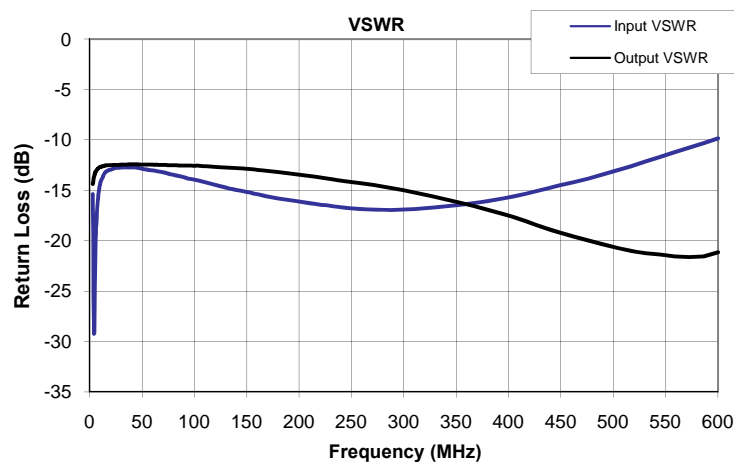
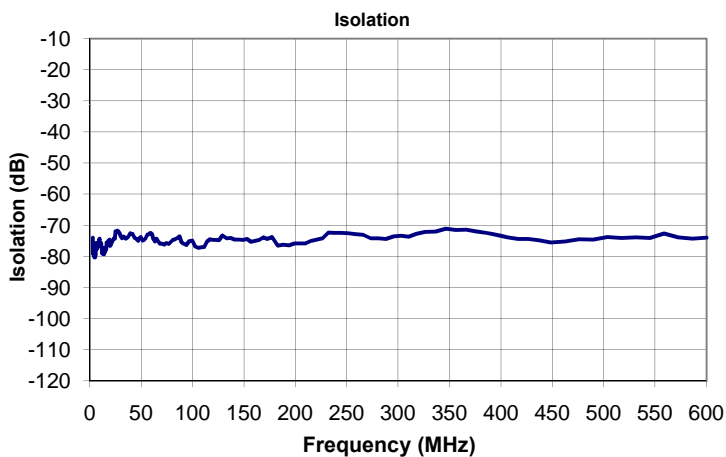
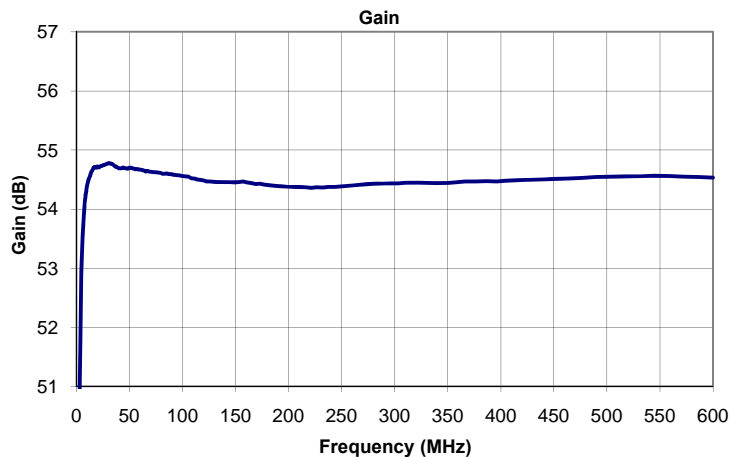
# AU-1313

## Features

- 3-Year Warranty
- Very Low Noise Figure
- Fast Recovery (1.5  $\mu$ Sec) for NMR Use
- Internally regulated to +8
- Reverse voltage protected
- Input Limiter Protected

Parameter	Specification
Frequency Range	7-500 MHz
Gain	52 dB Min, 54 dB Typ.
Gain Flatness	$\pm 0.75$ dB Max.
Input VSWR	2.0:1 Max.
Output VSWR	2.0:1 Max.
*Noise Figure (dB)	1.2, 1.3, 1.5 dB Max.
Output P1dB	+13 dBm Max.
DC Voltage	+12 to +30V (Marked for +15V)
DC Current	95 mA

\*Noise Figure at 10 MHz, 250 MHz & 500 MHz



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Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay
3.0	50.8	-74.0	-15.4	-14.4	62.5
3.1	51.0	-76.5	-16.4	-14.4	54.0
3.2	51.1	-79.0	-17.4	-14.3	55.3
3.3	51.3	-79.4	-18.5	-14.2	52.7
3.4	51.5	-77.2	-19.7	-14.1	50.7
3.5	51.6	-77.6	-20.9	-14.1	45.1
3.6	51.7	-76.8	-22.2	-14.0	45.9
3.6	51.9	-77.5	-23.6	-13.9	42.8
3.7	52.0	-78.0	-25.0	-13.9	42.2
3.8	52.1	-78.5	-26.5	-13.8	38.2
3.9	52.3	-78.1	-27.7	-13.8	38.9
4.0	52.4	-77.0	-28.5	-13.7	36.8
4.1	52.5	-77.5	-29.0	-13.7	35.0
4.2	52.6	-78.7	-29.3	-13.6	32.2
4.4	52.7	-79.5	-29.1	-13.6	34.5
4.5	52.8	-80.3	-28.7	-13.5	28.8
4.6	52.9	-79.6	-27.9	-13.5	30.9
4.8	53.0	-79.2	-26.9	-13.4	29.5
4.9	53.1	-80.1	-25.6	-13.4	28.4
5.0	53.2	-80.1	-24.5	-13.4	25.3
5.1	53.2	-80.4	-23.4	-13.3	25.4
5.3	53.3	-79.9	-22.5	-13.3	24.4
5.4	53.4	-79.7	-21.7	-13.2	24.0
5.5	53.5	-79.7	-21.0	-13.2	22.4
5.7	53.5	-78.9	-20.4	-13.2	22.9
5.8	53.6	-78.4	-19.8	-13.1	21.3
6.0	53.6	-77.5	-19.3	-13.1	20.0
6.2	53.7	-75.7	-18.8	-13.1	19.5
6.4	53.8	-75.9	-18.4	-13.1	18.5
6.5	53.8	-76.3	-18.0	-13.0	16.4
6.7	53.9	-77.7	-17.6	-13.0	17.2
6.9	53.9	-77.7	-17.3	-13.0	16.7
7.0	53.9	-76.7	-17.0	-13.0	16.1
7.2	54.0	-76.8	-16.7	-12.9	15.3
7.4	54.0	-77.4	-16.4	-12.9	14.6
7.6	54.1	-76.9	-16.2	-12.9	13.4
7.8	54.1	-76.7	-15.9	-12.9	13.2
8.0	54.2	-76.5	-15.7	-12.8	13.2
8.3	54.2	-76.4	-15.5	-12.8	13.3
8.5	54.2	-75.5	-15.3	-12.8	11.4
8.7	54.3	-75.7	-15.1	-12.8	11.1
9.0	54.3	-75.0	-14.9	-12.8	11.2
9.2	54.3	-74.8	-14.8	-12.7	9.1
9.4	54.3	-74.3	-14.6	-12.7	9.6
9.7	54.4	-75.7	-14.5	-12.7	9.0
9.9	54.4	-75.9	-14.4	-12.7	9.3
10.1	54.4	-76.6	-14.3	-12.7	8.2
10.4	54.4	-76.3	-14.2	-12.7	7.6
10.7	54.5	-76.7	-14.1	-12.7	7.5
11.1	54.5	-75.7	-14.0	-12.7	7.2
11.4	54.5	-77.0	-14.0	-12.7	6.5
11.7	54.5	-77.3	-13.9	-12.7	7.7
12.0	54.5	-79.1	-13.8	-12.6	6.6

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay
12.3	54.5	-77.1	-13.7	-12.6	6.6
12.7	54.6	-77.5	-13.6	-12.6	5.9
13.0	54.6	-78.5	-13.5	-12.6	6.2
13.3	54.6	-78.7	-13.5	-12.6	5.8
13.6	54.6	-78.5	-13.4	-12.6	5.5
13.9	54.6	-79.3	-13.3	-12.6	5.2
14.3	54.6	-78.4	-13.3	-12.6	5.1
14.8	54.7	-78.6	-13.2	-12.6	4.7
15.2	54.7	-77.2	-13.2	-12.5	5.3
15.6	54.7	-78.0	-13.2	-12.5	4.7
16.1	54.7	-77.6	-13.1	-12.5	4.4
16.5	54.7	-75.6	-13.1	-12.5	4.3
17.0	54.7	-75.9	-13.1	-12.5	4.6
17.4	54.7	-75.5	-13.0	-12.5	4.0
17.8	54.7	-75.0	-13.0	-12.5	4.1
18.3	54.7	-75.2	-13.0	-12.5	3.9
18.7	54.7	-74.8	-13.0	-12.5	3.7
19.2	54.7	-74.6	-13.0	-12.5	3.1
19.7	54.7	-76.7	-13.0	-12.5	3.1
20.3	54.7	-76.3	-12.9	-12.5	3.4
20.9	54.7	-76.0	-12.9	-12.5	3.2
21.5	54.7	-75.6	-12.9	-12.5	2.8
22.1	54.7	-75.2	-12.9	-12.5	3.1
22.7	54.7	-74.8	-12.8	-12.5	2.9
23.3	54.7	-74.2	-12.8	-12.5	2.7
23.9	54.7	-74.2	-12.8	-12.5	2.8
24.5	54.7	-74.3	-12.8	-12.5	2.7
25.1	54.7	-71.9	-12.8	-12.5	2.7
25.7	54.8	-72.0	-12.8	-12.5	2.9
26.3	54.7	-72.2	-12.8	-12.5	2.3
27.0	54.8	-71.8	-12.8	-12.5	2.3
27.9	54.8	-71.9	-12.8	-12.5	2.5
28.7	54.8	-72.4	-12.7	-12.5	2.6
29.5	54.8	-73.0	-12.7	-12.5	2.3
30.4	54.8	-73.7	-12.7	-12.5	2.2
31.2	54.8	-74.2	-12.7	-12.5	2.5
32.0	54.8	-73.8	-12.7	-12.5	2.1
32.9	54.8	-73.5	-12.7	-12.5	1.7
33.7	54.8	-73.7	-12.7	-12.5	2.2
34.5	54.7	-74.2	-12.7	-12.5	2.2
35.4	54.7	-74.3	-12.7	-12.5	1.9
36.2	54.7	-74.1	-12.7	-12.5	1.8
37.2	54.7	-73.8	-12.7	-12.4	1.9
38.3	54.7	-73.3	-12.7	-12.4	2.1
39.4	54.7	-72.5	-12.7	-12.5	1.7
40.5	54.7	-72.7	-12.7	-12.4	2.1
41.7	54.7	-72.8	-12.7	-12.4	2.2
42.8	54.7	-73.6	-12.7	-12.4	2.0
43.9	54.7	-74.1	-12.7	-12.4	1.8
45.1	54.7	-74.2	-12.8	-12.4	1.6
46.2	54.7	-74.6	-12.8	-12.5	1.7
47.3	54.7	-75.0	-12.8	-12.5	1.8
48.4	54.7	-74.1	-12.8	-12.5	1.7

# AU-1313

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay
49.7	54.7	-73.8	-12.8	-12.5	1.8
51.3	54.7	-74.9	-12.9	-12.5	1.5
52.8	54.7	-74.7	-12.9	-12.5	1.5
54.3	54.7	-74.2	-12.9	-12.5	1.6
55.9	54.7	-73.1	-13.0	-12.5	1.6
57.4	54.7	-72.8	-13.0	-12.5	1.8
58.9	54.7	-72.5	-13.0	-12.5	1.7
60.4	54.7	-72.9	-13.0	-12.5	1.4
62.0	54.7	-74.4	-13.1	-12.5	1.5
63.5	54.7	-75.2	-13.1	-12.5	1.6
65.0	54.6	-74.3	-13.1	-12.5	1.6
66.6	54.6	-75.2	-13.1	-12.5	1.6
68.3	54.6	-75.9	-13.2	-12.5	1.5
70.5	54.6	-75.9	-13.2	-12.5	1.6
72.6	54.6	-76.2	-13.3	-12.5	1.4
74.7	54.6	-75.7	-13.3	-12.5	1.5
76.8	54.6	-76.1	-13.4	-12.5	1.6
78.9	54.6	-75.4	-13.4	-12.5	1.5
81.0	54.6	-74.8	-13.5	-12.5	1.4
83.1	54.6	-74.5	-13.5	-12.5	1.4
85.2	54.6	-74.1	-13.6	-12.6	1.3
87.3	54.6	-73.5	-13.6	-12.5	1.4
89.4	54.6	-75.4	-13.7	-12.6	1.4
91.5	54.6	-75.9	-13.8	-12.6	1.4
93.9	54.6	-76.3	-13.8	-12.6	1.4
96.8	54.6	-75.1	-13.9	-12.6	1.4
99.7	54.6	-74.9	-14.0	-12.6	1.5
102.6	54.6	-76.9	-14.0	-12.6	1.5
105.5	54.5	-77.3	-14.1	-12.6	1.4
108.4	54.5	-77.1	-14.1	-12.6	1.5
111.3	54.5	-77.0	-14.2	-12.6	1.5
114.1	54.5	-75.2	-14.3	-12.7	1.4
117.0	54.5	-74.5	-14.4	-12.7	1.5
119.9	54.5	-74.7	-14.5	-12.7	1.4
122.8	54.5	-74.7	-14.5	-12.7	1.4
125.7	54.5	-74.8	-14.6	-12.7	1.3
129.1	54.5	-73.2	-14.7	-12.8	1.4
133.0	54.5	-74.2	-14.8	-12.8	1.4
137.0	54.5	-74.1	-14.9	-12.8	1.4
141.0	54.5	-74.6	-15.0	-12.8	1.3
145.0	54.5	-74.6	-15.1	-12.9	1.4
148.9	54.5	-74.7	-15.1	-12.9	1.4
152.9	54.5	-74.4	-15.2	-12.9	1.4
156.9	54.5	-75.3	-15.3	-13.0	1.4
160.8	54.5	-75.1	-15.4	-13.0	1.5
164.8	54.4	-74.7	-15.5	-13.0	1.4
168.8	54.4	-73.9	-15.6	-13.1	1.4
172.7	54.4	-74.4	-15.7	-13.1	1.4
177.4	54.4	-73.8	-15.8	-13.2	1.4
182.8	54.4	-76.6	-15.9	-13.2	1.4
188.3	54.4	-76.2	-16.0	-13.3	1.4
193.8	54.4	-76.4	-16.0	-13.4	1.4
199.2	54.4	-75.8	-16.1	-13.4	1.4

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay
204.7	54.4	-75.9	-16.2	-13.5	1.3
210.1	54.4	-75.8	-16.3	-13.6	1.3
215.6	54.4	-75.0	-16.3	-13.7	1.4
221.0	54.4	-74.7	-16.5	-13.8	1.4
226.5	54.4	-74.2	-16.5	-13.8	1.4
231.9	54.4	-72.3	-16.6	-13.9	1.4
237.4	54.4	-72.4	-16.6	-14.0	1.4
243.8	54.4	-72.4	-16.7	-14.1	1.4
251.2	54.4	-72.6	-16.8	-14.2	1.4
258.6	54.4	-72.9	-16.9	-14.3	1.4
265.9	54.4	-73.1	-16.9	-14.4	1.4
273.3	54.4	-74.2	-16.9	-14.5	1.4
280.7	54.4	-74.2	-16.9	-14.6	1.4
288.1	54.4	-74.4	-17.0	-14.8	1.4
295.5	54.4	-73.6	-16.9	-14.9	1.4
302.9	54.4	-73.3	-16.9	-15.1	1.4
310.3	54.4	-73.6	-16.9	-15.2	1.4
317.7	54.4	-72.7	-16.8	-15.4	1.4
326.2	54.4	-72.1	-16.7	-15.6	1.4
336.3	54.4	-72.0	-16.6	-15.8	1.4
346.3	54.4	-71.1	-16.5	-16.0	1.4
356.3	54.5	-71.5	-16.4	-16.3	1.4
366.4	54.5	-71.4	-16.3	-16.6	1.4
376.4	54.5	-72.0	-16.1	-16.8	1.4
386.4	54.5	-72.4	-16.0	-17.1	1.4
396.5	54.5	-73.1	-15.8	-17.4	1.4
406.5	54.5	-73.9	-15.6	-17.7	1.4
416.5	54.5	-74.4	-15.3	-18.1	1.4
426.6	54.5	-74.4	-15.1	-18.4	1.4
436.6	54.5	-74.8	-14.8	-18.8	1.4
448.3	54.5	-75.6	-14.5	-19.2	1.4
462.1	54.5	-75.2	-14.2	-19.6	1.4
475.9	54.5	-74.5	-13.8	-20.0	1.4
489.7	54.5	-74.6	-13.4	-20.3	1.5
503.5	54.6	-73.7	-13.0	-20.7	1.5
517.3	54.6	-74.1	-12.6	-21.0	1.5
531.1	54.6	-73.9	-12.1	-21.2	1.5
544.8	54.6	-74.1	-11.7	-21.4	1.5
558.6	54.6	-72.7	-11.2	-21.6	1.5
572.4	54.5	-73.9	-10.8	-21.6	1.5
586.2	54.5	-74.3	-10.3	-21.5	1.6
600.0	54.5	-73.9	-9.8	-21.1	1.6