

# AU-2A-0150

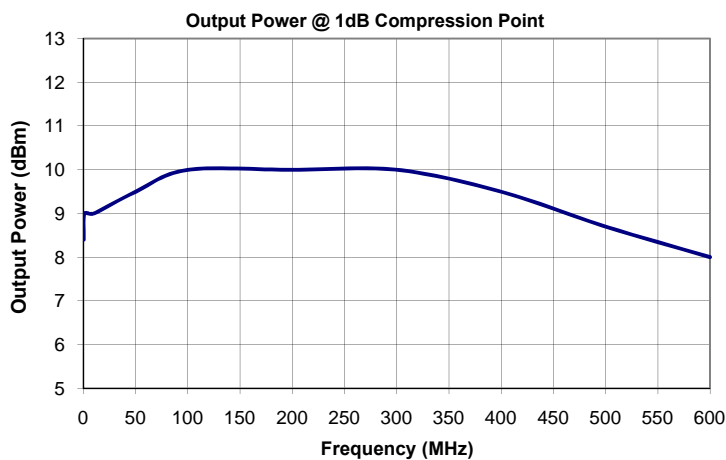
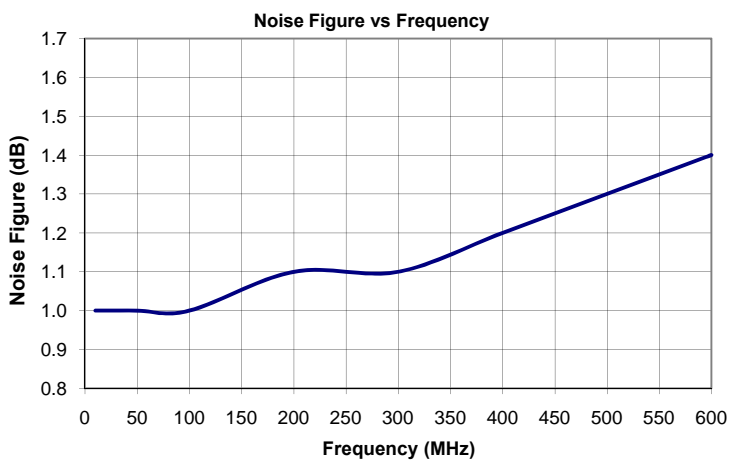
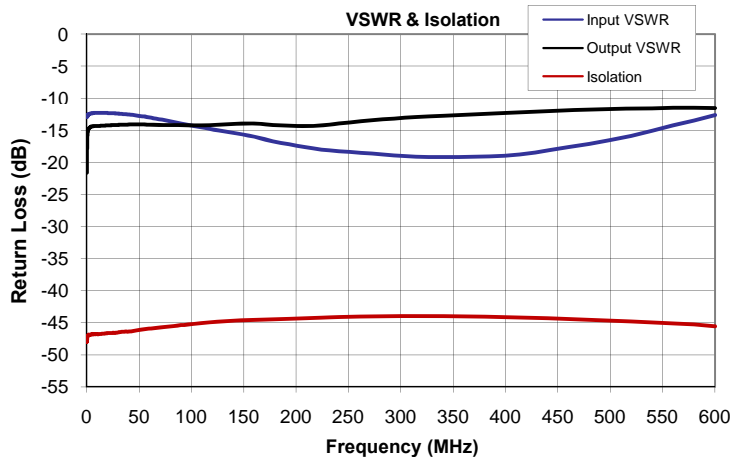
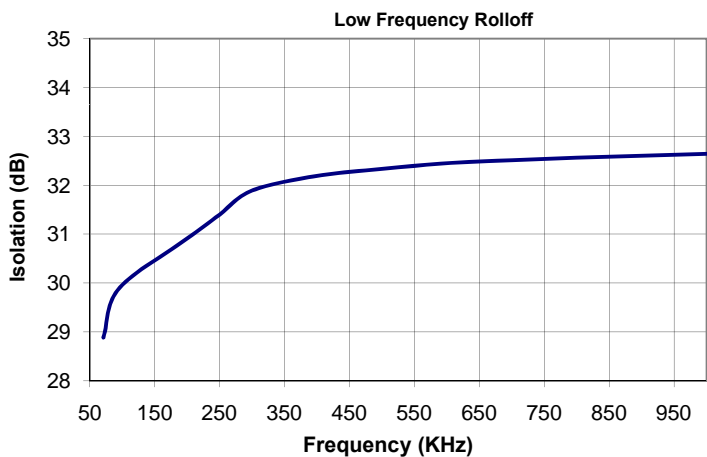
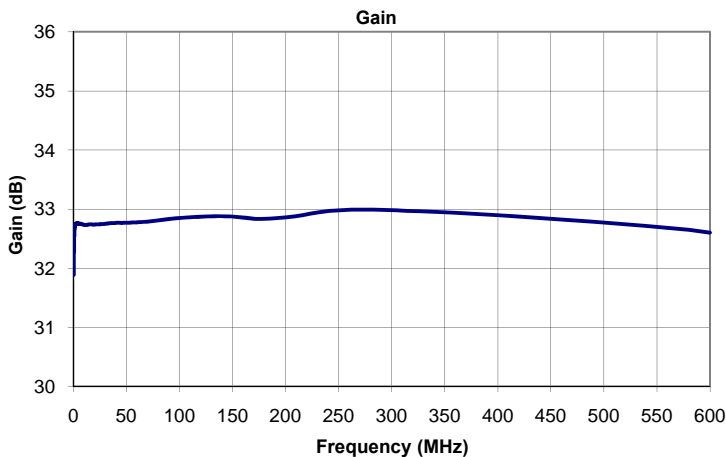
## Features

- 3-Year Warranty
  - Low Noise Figure
  - Usable to 100 KHz
- Internally regulated to +8V
  - Reverse voltage protected
  - Input Limiter Protected

Parameter	Specification
Frequency Range	1-500 MHz
Gain	30 dB Min, 33 dB Typ.
Gain Flatness	± 0.5 dB Max.
Input VSWR	2.0:1 Max.
Output VSWR	2.0:1 Max.
*Noise Figure (dB)	1.2, 1.3, 1.4
*Output P1dB	+9, +9, +8
DC Voltage	+11 to +30V (Marked for +14V)
DC Current	50 mA

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

\*P1dB at 1 MHz, 250 MHz & 500 MHz



# AU-2A-0150

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay (nS)
0.30	31.9	-48.0	-12.9	-21.6	-42.1
0.31	32.0	-47.9	-12.9	-21.1	-8.4
0.33	32.0	-48.0	-12.9	-20.6	15.3
0.34	32.0	-47.9	-12.9	-20.2	31.2
0.35	32.1	-47.8	-12.9	-19.9	28.4
0.37	32.1	-47.8	-12.9	-19.5	39.7
0.38	32.1	-47.8	-12.9	-19.2	43.8
0.39	32.2	-47.8	-12.9	-18.9	41.3
0.41	32.2	-47.7	-12.9	-18.6	48.0
0.42	32.2	-47.7	-12.9	-18.3	41.4
0.44	32.2	-47.6	-12.9	-18.0	31.2
0.46	32.3	-47.6	-12.9	-17.8	29.3
0.48	32.3	-47.6	-12.8	-17.6	35.3
0.50	32.3	-47.5	-12.8	-17.4	32.9
0.51	32.4	-47.5	-12.8	-17.2	27.4
0.53	32.4	-47.4	-12.8	-17.0	33.2
0.55	32.4	-47.4	-12.8	-16.8	28.6
0.57	32.4	-47.4	-12.8	-16.7	24.2
0.60	32.4	-47.3	-12.8	-16.5	23.4
0.62	32.5	-47.3	-12.8	-16.4	24.6
0.65	32.5	-47.2	-12.8	-16.3	24.1
0.67	32.5	-47.2	-12.8	-16.2	22.1
0.70	32.5	-47.1	-12.8	-16.1	19.2
0.72	32.5	-47.1	-12.8	-16.0	20.6
0.75	32.5	-47.1	-12.8	-15.9	17.2
0.78	32.5	-47.1	-12.8	-15.8	18.9
0.81	32.6	-47.1	-12.8	-15.7	17.4
0.84	32.6	-47.1	-12.8	-15.7	16.8
0.88	32.6	-47.1	-12.8	-15.6	15.8
0.91	32.6	-47.1	-12.8	-15.5	13.7
0.95	32.6	-47.1	-12.8	-15.5	11.6
0.98	32.6	-47.1	-12.7	-15.4	13.6
1.02	32.6	-47.1	-12.7	-15.3	12.6
1.05	32.7	-47.0	-12.7	-15.3	11.0
1.09	32.7	-47.0	-12.6	-15.2	11.1
1.14	32.7	-47.0	-12.6	-15.2	9.9
1.19	32.7	-47.0	-12.6	-15.1	8.6
1.23	32.7	-47.0	-12.6	-15.1	10.1
1.28	32.7	-47.0	-12.6	-15.1	9.4
1.33	32.7	-47.0	-12.6	-15.0	10.0
1.38	32.7	-47.0	-12.6	-15.0	8.6
1.43	32.7	-46.9	-12.6	-15.0	7.3
1.48	32.7	-46.9	-12.6	-14.9	7.9
1.54	32.7	-46.9	-12.5	-14.9	6.5
1.61	32.7	-46.9	-12.5	-14.9	6.5
1.67	32.7	-46.9	-12.5	-14.9	7.2
1.74	32.7	-46.9	-12.5	-14.8	6.5
1.80	32.7	-46.9	-12.5	-14.8	5.9
1.87	32.7	-46.9	-12.5	-14.8	5.8
1.93	32.7	-46.9	-12.5	-14.8	4.5
2.01	32.7	-46.9	-12.5	-14.7	5.2
2.10	32.8	-46.9	-12.5	-14.7	3.9
2.18	32.8	-46.9	-12.5	-14.7	5.2

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay (nS)
2.27	32.8	-46.9	-12.5	-14.7	4.2
2.36	32.8	-46.9	-12.5	-14.7	3.3
2.45	32.8	-46.9	-12.4	-14.6	3.2
2.54	32.8	-46.9	-12.4	-14.6	3.6
2.63	32.8	-46.9	-12.4	-14.6	2.8
2.72	32.8	-46.9	-12.4	-14.6	3.4
2.82	32.8	-46.9	-12.4	-14.6	2.5
2.95	32.8	-46.9	-12.4	-14.6	3.3
3.07	32.8	-46.9	-12.4	-14.5	2.0
3.19	32.8	-46.9	-12.4	-14.5	2.4
3.32	32.8	-46.9	-12.4	-14.5	2.4
3.44	32.8	-46.9	-12.4	-14.5	2.0
3.56	32.8	-46.9	-12.4	-14.5	1.7
3.69	32.8	-46.9	-12.4	-14.5	2.2
3.83	32.8	-46.8	-12.4	-14.5	2.0
3.99	32.8	-46.8	-12.4	-14.5	2.1
4.16	32.8	-46.8	-12.4	-14.4	1.9
4.33	32.8	-46.8	-12.4	-14.4	2.0
4.49	32.8	-46.8	-12.4	-14.4	1.8
4.66	32.8	-46.8	-12.4	-14.4	1.6
4.83	32.8	-46.8	-12.3	-14.4	1.7
4.99	32.8	-46.8	-12.3	-14.4	1.6
5.19	32.8	-46.8	-12.3	-14.4	1.8
5.42	32.8	-46.8	-12.3	-14.4	1.4
5.65	32.8	-46.8	-12.3	-14.4	1.4
5.88	32.8	-46.8	-12.3	-14.4	1.4
6.11	32.8	-46.8	-12.3	-14.4	1.5
6.34	32.8	-46.8	-12.3	-14.4	1.4
6.57	32.8	-46.8	-12.3	-14.4	1.4
6.80	32.8	-46.8	-12.3	-14.3	1.3
7.03	32.8	-46.8	-12.3	-14.3	1.3
7.30	32.7	-46.8	-12.3	-14.3	1.2
7.62	32.7	-46.8	-12.3	-14.3	1.2
7.94	32.7	-46.8	-12.3	-14.3	1.4
8.26	32.7	-46.8	-12.3	-14.3	1.4
8.58	32.7	-46.8	-12.3	-14.3	1.5
8.89	32.7	-46.8	-12.3	-14.3	1.5
9.21	32.7	-46.8	-12.3	-14.3	1.4
9.53	32.7	-46.8	-12.3	-14.3	1.5
9.90	32.7	-46.8	-12.3	-14.3	1.5
10.3	32.7	-46.8	-12.3	-14.3	1.4
10.8	32.7	-46.8	-12.3	-14.3	1.6
11.2	32.7	-46.8	-12.3	-14.3	1.3
11.7	32.7	-46.8	-12.3	-14.3	1.2
12.1	32.7	-46.7	-12.3	-14.3	1.2
12.5	32.7	-46.7	-12.3	-14.3	1.2
13.0	32.7	-46.7	-12.3	-14.3	1.2
13.4	32.7	-46.7	-12.3	-14.3	1.2
13.9	32.7	-46.7	-12.3	-14.3	1.1
14.5	32.7	-46.7	-12.3	-14.3	1.1
15.1	32.7	-46.7	-12.3	-14.3	1.0
15.8	32.7	-46.7	-12.3	-14.3	1.1
16.4	32.7	-46.7	-12.3	-14.3	1.1

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Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay (nS)
17.0	32.7	-46.7	-12.3	-14.3	1.1
17.6	32.7	-46.7	-12.3	-14.3	1.1
18.2	32.7	-46.7	-12.3	-14.3	1.1
18.9	32.7	-46.6	-12.3	-14.2	1.1
19.7	32.7	-46.6	-12.3	-14.2	1.0
20.5	32.7	-46.6	-12.3	-14.2	1.1
21.4	32.7	-46.6	-12.3	-14.2	1.2
22.2	32.7	-46.6	-12.3	-14.2	1.1
23.0	32.7	-46.6	-12.3	-14.2	1.1
23.8	32.7	-46.6	-12.3	-14.2	1.1
24.6	32.7	-46.6	-12.3	-14.2	1.1
25.6	32.7	-46.6	-12.3	-14.2	1.2
26.7	32.7	-46.6	-12.3	-14.2	1.1
27.9	32.7	-46.6	-12.3	-14.2	1.2
29.0	32.7	-46.5	-12.4	-14.2	1.1
30.1	32.8	-46.5	-12.4	-14.2	1.1
31.3	32.8	-46.5	-12.4	-14.2	1.1
32.4	32.8	-46.4	-12.4	-14.2	1.1
33.6	32.8	-46.4	-12.4	-14.1	1.0
34.7	32.8	-46.4	-12.4	-14.1	1.2
36.0	32.8	-46.4	-12.5	-14.1	1.1
37.6	32.8	-46.4	-12.5	-14.1	1.1
39.2	32.8	-46.4	-12.5	-14.1	1.1
40.7	32.8	-46.4	-12.5	-14.1	1.1
42.3	32.8	-46.3	-12.6	-14.1	1.1
43.9	32.8	-46.3	-12.6	-14.1	1.1
45.5	32.8	-46.2	-12.6	-14.1	1.1
47.0	32.8	-46.2	-12.7	-14.1	1.1
48.8	32.8	-46.2	-12.7	-14.1	1.1
51.0	32.8	-46.1	-12.7	-14.1	1.1
53.1	32.8	-46.1	-12.8	-14.1	1.1
55.2	32.8	-46.0	-12.8	-14.1	1.1
57.4	32.8	-46.0	-12.9	-14.1	1.1
59.5	32.8	-45.9	-13.0	-14.1	1.1
61.6	32.8	-45.9	-13.0	-14.1	1.1
63.7	32.8	-45.9	-13.1	-14.2	1.1
66.2	32.8	-45.8	-13.2	-14.2	1.1
69.1	32.8	-45.8	-13.2	-14.2	1.1
72.1	32.8	-45.7	-13.3	-14.2	1.1
75.0	32.8	-45.7	-13.4	-14.2	1.1
78.0	32.8	-45.6	-13.5	-14.2	1.1
80.9	32.8	-45.6	-13.6	-14.2	1.1
83.8	32.8	-45.5	-13.7	-14.2	1.1
86.8	32.8	-45.5	-13.8	-14.2	1.1
89.7	32.8	-45.4	-13.9	-14.2	1.2
93.2	32.8	-45.3	-14.0	-14.2	1.1
97.3	32.8	-45.3	-14.2	-14.2	1.1
101.3	32.8	-45.2	-14.3	-14.2	1.1
105.4	32.9	-45.1	-14.4	-14.2	1.2
109.4	32.9	-45.1	-14.5	-14.2	1.2
113.5	32.9	-45.0	-14.6	-14.2	1.2
117.5	32.9	-44.9	-14.8	-14.2	1.2
121.6	32.9	-44.9	-14.9	-14.2	1.2

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay (nS)
126.3	32.9	-44.8	-15.0	-14.1	1.2
131.9	32.9	-44.8	-15.2	-14.1	1.2
137.5	32.9	-44.7	-15.3	-14.0	1.2
143.1	32.9	-44.7	-15.5	-14.0	1.2
148.8	32.9	-44.6	-15.6	-14.0	1.2
154.4	32.9	-44.6	-15.8	-13.9	1.2
160.0	32.9	-44.6	-16.0	-14.0	1.1
165.6	32.8	-44.5	-16.2	-14.0	1.1
171.2	32.8	-44.5	-16.5	-14.1	1.1
177.8	32.8	-44.5	-16.7	-14.2	1.1
185.6	32.8	-44.4	-17.0	-14.2	1.1
193.3	32.9	-44.4	-17.2	-14.3	1.1
201.0	32.9	-44.4	-17.4	-14.3	1.1
208.8	32.9	-44.3	-17.6	-14.3	1.1
216.5	32.9	-44.3	-17.8	-14.3	1.1
224.3	32.9	-44.2	-18.0	-14.2	1.1
232.0	32.9	-44.2	-18.1	-14.1	1.2
241.0	33.0	-44.1	-18.3	-14.0	1.2
251.5	33.0	-44.1	-18.4	-13.8	1.2
262.0	33.0	-44.1	-18.5	-13.6	1.2
272.5	33.0	-44.0	-18.6	-13.4	1.2
283.0	33.0	-44.0	-18.8	-13.3	1.2
293.5	33.0	-44.0	-18.9	-13.2	1.2
304.0	33.0	-44.0	-19.0	-13.0	1.2
314.5	33.0	-44.0	-19.1	-12.9	1.2
326.6	33.0	-44.0	-19.2	-12.8	1.2
341.1	33.0	-44.0	-19.2	-12.7	1.2
355.7	32.9	-44.0	-19.2	-12.6	1.2
370.2	32.9	-44.0	-19.1	-12.5	1.2
384.7	32.9	-44.1	-19.1	-12.4	1.2
399.2	32.9	-44.1	-19.0	-12.3	1.2
413.7	32.9	-44.2	-18.8	-12.2	1.2
428.2	32.9	-44.3	-18.5	-12.1	1.2
442.7	32.8	-44.3	-18.1	-12.0	1.2
459.8	32.8	-44.4	-17.6	-11.9	1.2
479.9	32.8	-44.6	-17.1	-11.8	1.2
499.9	32.8	-44.7	-16.5	-11.7	1.2
519.9	32.7	-44.8	-15.8	-11.6	1.3
539.9	32.7	-44.9	-15.1	-11.6	1.3
560.0	32.7	-45.1	-14.2	-11.5	1.3
580.0	32.6	-45.3	-13.5	-11.5	1.3
600.0	32.6	-45.5	-12.6	-11.5	1.3