

# AU-1291

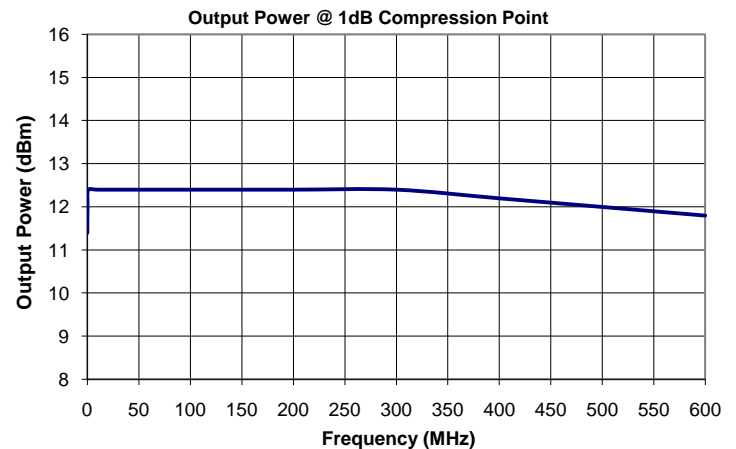
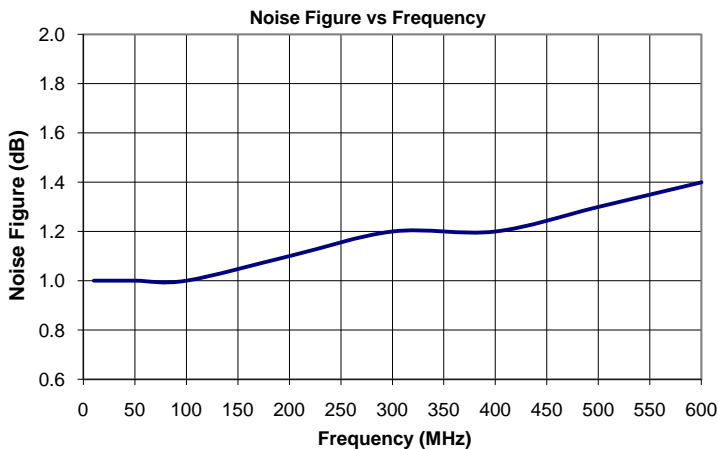
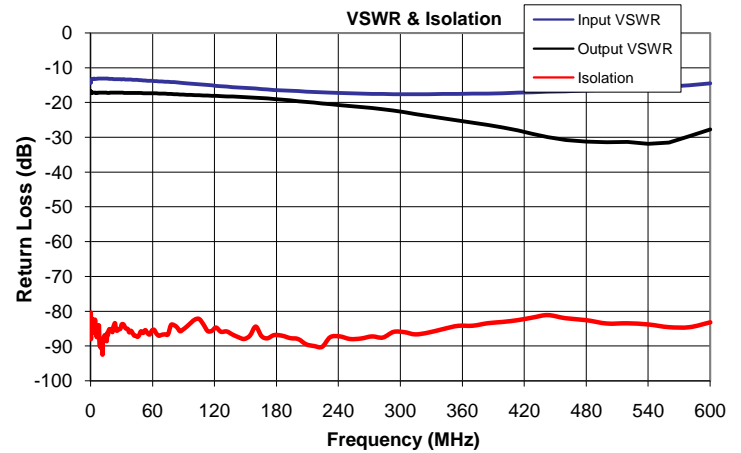
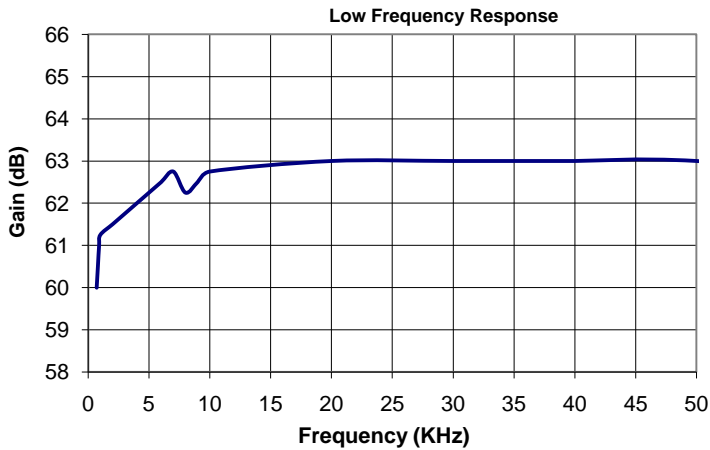
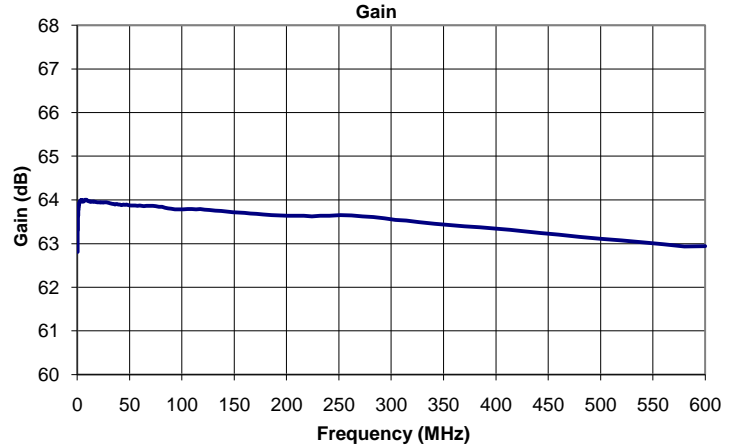
## Features

- 3-Year Warranty
- Very Low Noise Figure
- Very Low Frequency Response
- Internally regulated to +12V
- Reverse voltage protected
- Input Limiter Protected

Parameter	Specification
Frequency Range	0.001-500 MHz Min.
Gain	63 dB Min. (65 dB Typ.)
Gain Flatness	± 0.75 dB Max. (± 0.5 dB Typ.)
Input VSWR	2.0:1 Max.
Output VSWR	2.0:1 Max.
*Noise Figure (dB)	1.2, 1.3, 1.4 Max.
*Output P1dB	+10 dBm Min. (+11 dBm Typ.)
DC Voltage	+15 to +30V (Marked for +15V)
DC Current	95 mA

\*Noise Figure at 10 MHz, 300 MHz & 600 MHz

\*P1dB at 1.0 KHz, 300 MHz & 600 MHz



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Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay
0.30	62.8	-80.7	-14.4	-16.8	-248.4
0.31	62.9	-80.3	-14.4	-16.9	-107.9
0.33	63.0	-81.9	-14.3	-16.9	-94.0
0.34	63.0	-81.4	-14.3	-16.8	-60.2
0.35	63.1	-81.3	-14.3	-16.8	-26.4
0.37	63.1	-81.8	-14.3	-16.9	-2.7
0.38	63.1	-82.9	-14.3	-16.9	32.8
0.39	63.2	-84.2	-14.2	-16.9	10.8
0.41	63.2	-85.2	-14.2	-16.9	29.5
0.42	63.3	-86.0	-14.1	-16.9	27.9
0.44	63.3	-86.0	-14.1	-17.0	30.0
0.46	63.3	-87.4	-14.1	-17.0	23.7
0.48	63.3	-87.4	-14.1	-17.0	8.3
0.50	63.4	-88.0	-14.0	-17.0	7.0
0.51	63.4	-88.0	-14.0	-17.0	17.3
0.53	63.4	-87.0	-14.0	-17.1	5.6
0.55	63.5	-86.2	-13.9	-17.1	11.4
0.57	63.5	-85.2	-13.9	-17.1	13.9
0.60	63.5	-83.9	-13.9	-17.1	16.8
0.62	63.6	-83.6	-13.8	-17.1	16.0
0.65	63.6	-82.8	-13.8	-17.1	13.4
0.67	63.6	-83.3	-13.7	-17.1	7.5
0.70	63.6	-82.0	-13.7	-17.1	20.6
0.72	63.6	-81.8	-13.6	-17.2	5.1
0.75	63.6	-82.0	-13.6	-17.1	7.1
0.78	63.6	-82.0	-13.6	-17.1	12.1
0.81	63.7	-82.9	-13.6	-17.2	15.1
0.84	63.7	-83.5	-13.5	-17.1	-1.6
0.88	63.7	-83.6	-13.5	-17.1	6.9
0.91	63.7	-83.2	-13.5	-17.2	9.8
0.95	63.7	-83.2	-13.5	-17.2	6.1
0.98	63.7	-83.0	-13.5	-17.2	-0.9
1.02	63.8	-83.0	-13.4	-17.1	11.0
1.05	63.8	-83.1	-13.4	-17.1	12.0
1.09	63.8	-83.2	-13.4	-17.2	2.8
1.14	63.8	-84.0	-13.4	-17.1	-0.9
1.19	63.8	-85.3	-13.4	-17.2	13.6
1.23	63.8	-85.9	-13.4	-17.2	6.3
1.28	63.8	-85.7	-13.4	-17.2	5.4
1.33	63.8	-85.5	-13.4	-17.2	11.6
1.38	63.9	-86.3	-13.3	-17.2	6.8
1.43	63.9	-86.2	-13.3	-17.2	6.6
1.48	63.9	-85.6	-13.3	-17.2	5.5
1.54	63.9	-86.3	-13.3	-17.2	8.8
1.61	63.9	-85.4	-13.3	-17.2	8.6
1.67	63.9	-84.5	-13.3	-17.2	4.4
1.74	63.9	-84.4	-13.2	-17.2	2.4
1.80	63.9	-84.8	-13.2	-17.2	4.4
1.87	63.9	-84.9	-13.2	-17.2	3.8
1.93	63.9	-84.3	-13.2	-17.2	4.2
2.01	63.9	-85.0	-13.2	-17.2	3.0
2.10	63.9	-85.3	-13.2	-17.2	3.5
2.18	63.9	-84.5	-13.2	-17.2	2.3

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay
2.27	64.0	-83.8	-13.2	-17.2	1.5
2.36	64.0	-82.5	-13.2	-17.2	5.8
2.45	64.0	-82.5	-13.2	-17.2	5.8
2.54	64.0	-83.2	-13.2	-17.2	4.5
2.63	64.0	-83.4	-13.2	-17.2	3.5
2.72	64.0	-84.1	-13.2	-17.2	2.9
2.82	64.0	-83.4	-13.1	-17.2	3.6
2.95	64.0	-84.1	-13.1	-17.2	4.3
3.07	64.0	-84.9	-13.1	-17.2	3.7
3.19	64.0	-84.8	-13.2	-17.2	4.8
3.32	64.0	-85.7	-13.1	-17.2	1.9
3.44	64.0	-85.7	-13.1	-17.2	3.5
3.56	64.0	-84.9	-13.1	-17.2	2.7
3.69	64.0	-84.7	-13.1	-17.2	3.3
3.83	64.0	-84.8	-13.1	-17.2	3.1
3.99	64.0	-84.7	-13.1	-17.2	1.6
4.16	64.0	-83.8	-13.1	-17.2	2.6
4.33	64.0	-82.3	-13.2	-17.2	2.6
4.49	64.0	-82.6	-13.1	-17.2	1.4
4.66	64.0	-82.7	-13.1	-17.2	2.3
4.83	64.0	-84.5	-13.2	-17.2	1.7
4.99	64.0	-85.5	-13.2	-17.2	2.5
5.19	64.0	-86.2	-13.2	-17.2	2.3
5.42	64.0	-85.8	-13.1	-17.2	2.3
5.65	64.0	-86.7	-13.2	-17.2	2.2
5.88	64.0	-86.7	-13.1	-17.2	2.2
6.11	64.0	-87.4	-13.1	-17.3	2.2
6.34	64.0	-86.5	-13.1	-17.2	1.9
6.57	64.0	-86.4	-13.1	-17.2	2.5
6.80	64.0	-85.3	-13.1	-17.2	2.2
7.03	64.0	-84.0	-13.1	-17.2	1.6
7.30	64.0	-84.5	-13.1	-17.2	1.8
7.62	64.0	-85.2	-13.1	-17.2	2.1
7.94	64.0	-84.3	-13.1	-17.2	2.3
8.26	64.0	-84.0	-13.1	-17.2	1.2
8.58	64.0	-87.8	-13.1	-17.2	1.3
8.89	64.0	-89.8	-13.1	-17.2	1.9
9.21	64.0	-90.0	-13.1	-17.2	1.3
9.53	64.0	-89.7	-13.1	-17.2	1.6
9.90	64.0	-90.5	-13.1	-17.2	2.0
10.3	64.0	-90.3	-13.1	-17.2	1.6
10.8	64.0	-89.5	-13.1	-17.2	1.7
11.2	64.0	-89.5	-13.1	-17.2	1.3
11.7	64.0	-92.5	-13.1	-17.2	2.3
12.1	64.0	-88.4	-13.1	-17.2	1.7
12.5	64.0	-87.7	-13.1	-17.2	1.7
13.0	64.0	-87.4	-13.1	-17.2	1.7
13.4	64.0	-87.0	-13.1	-17.2	1.8
13.9	64.0	-86.8	-13.1	-17.2	1.4
14.5	64.0	-86.8	-13.1	-17.2	1.6
15.1	64.0	-86.9	-13.1	-17.2	1.7
15.8	64.0	-88.6	-13.1	-17.2	1.5
16.4	64.0	-86.2	-13.1	-17.2	1.4

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Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay
17.0	64.0	-86.7	-13.1	-17.3	1.8
17.6	64.0	-85.6	-13.1	-17.2	1.8
18.2	64.0	-85.1	-13.2	-17.2	1.5
18.9	63.9	-85.1	-13.2	-17.2	1.3
19.7	63.9	-85.3	-13.2	-17.2	1.5
20.5	63.9	-85.1	-13.2	-17.2	1.6
21.4	63.9	-86.0	-13.2	-17.2	1.6
22.2	63.9	-84.6	-13.2	-17.2	1.9
23.0	63.9	-83.8	-13.3	-17.2	1.6
23.8	63.9	-83.4	-13.3	-17.2	1.8
24.6	63.9	-85.1	-13.3	-17.2	1.4
25.6	63.9	-85.6	-13.3	-17.2	1.8
26.7	63.9	-85.3	-13.3	-17.2	1.9
27.9	63.9	-85.1	-13.3	-17.2	1.8
29.0	63.9	-85.0	-13.3	-17.2	1.7
30.1	63.9	-83.8	-13.3	-17.2	1.6
31.3	63.9	-83.6	-13.3	-17.2	1.5
32.4	63.9	-83.9	-13.3	-17.3	1.8
33.6	63.9	-84.6	-13.3	-17.3	1.5
34.7	63.9	-85.0	-13.4	-17.3	1.7
36.0	63.9	-85.0	-13.4	-17.3	1.3
37.6	63.9	-86.0	-13.4	-17.3	1.5
39.2	63.9	-85.5	-13.4	-17.3	1.6
40.7	63.9	-86.2	-13.4	-17.3	1.7
42.3	63.9	-87.0	-13.4	-17.3	1.6
43.9	63.9	-87.0	-13.5	-17.3	1.7
45.5	63.9	-87.3	-13.5	-17.3	1.5
47.0	63.9	-86.9	-13.5	-17.3	1.7
48.8	63.9	-85.7	-13.6	-17.3	1.7
51.0	63.9	-86.2	-13.6	-17.3	1.7
53.1	63.9	-85.4	-13.6	-17.3	1.6
55.2	63.9	-86.3	-13.7	-17.3	1.7
57.4	63.9	-86.6	-13.7	-17.4	1.6
59.5	63.9	-85.5	-13.8	-17.3	1.6
61.6	63.9	-85.3	-13.8	-17.4	1.6
63.7	63.9	-86.3	-13.9	-17.4	1.7
66.2	63.9	-87.0	-13.9	-17.4	1.6
69.1	63.9	-86.7	-13.9	-17.4	1.7
72.1	63.9	-86.6	-14.0	-17.5	1.7
75.0	63.9	-86.6	-14.0	-17.5	1.7
78.0	63.8	-83.9	-14.1	-17.6	1.6
80.9	63.8	-84.0	-14.1	-17.6	1.6
83.8	63.8	-84.6	-14.2	-17.7	1.5
86.8	63.8	-85.7	-14.3	-17.7	1.6
89.7	63.8	-85.2	-14.4	-17.8	1.5
93.2	63.8	-84.4	-14.4	-17.8	1.6
97.3	63.8	-83.3	-14.5	-17.8	1.5
101.3	63.8	-82.3	-14.6	-17.9	1.5
105.4	63.8	-82.2	-14.7	-18.0	1.5
109.4	63.8	-83.8	-14.8	-18.0	1.5
113.5	63.8	-85.7	-14.9	-18.0	1.6
117.5	63.8	-85.6	-15.1	-18.1	1.6
121.6	63.8	-84.6	-15.2	-18.1	1.6

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay
126.3	63.8	-85.9	-15.3	-18.2	1.6
131.9	63.8	-85.8	-15.4	-18.3	1.6
137.5	63.7	-86.7	-15.5	-18.3	1.6
143.1	63.7	-87.4	-15.6	-18.4	1.6
148.8	63.7	-87.9	-15.7	-18.5	1.6
154.4	63.7	-87.0	-15.8	-18.5	1.6
160.0	63.7	-84.4	-15.9	-18.6	1.6
165.6	63.7	-87.1	-16.1	-18.8	1.6
171.2	63.7	-87.7	-16.2	-18.9	1.6
177.8	63.7	-86.8	-16.3	-19.0	1.5
185.6	63.7	-87.0	-16.5	-19.2	1.6
193.3	63.6	-87.7	-16.6	-19.4	1.6
201.0	63.6	-87.9	-16.7	-19.6	1.5
208.8	63.6	-89.5	-16.8	-19.8	1.6
216.5	63.6	-90.0	-16.9	-20.0	1.6
224.3	63.6	-90.2	-17.0	-20.3	1.6
232.0	63.6	-87.4	-17.1	-20.5	1.6
241.0	63.6	-87.2	-17.2	-20.8	1.6
251.5	63.7	-87.9	-17.3	-21.1	1.6
262.0	63.6	-87.8	-17.4	-21.3	1.6
272.5	63.6	-87.2	-17.5	-21.6	1.6
283.0	63.6	-87.5	-17.5	-22.0	1.6
293.5	63.6	-85.9	-17.6	-22.4	1.6
304.0	63.5	-86.0	-17.6	-22.8	1.6
314.5	63.5	-86.6	-17.6	-23.4	1.6
326.6	63.5	-86.1	-17.5	-23.9	1.6
341.1	63.5	-85.1	-17.5	-24.5	1.6
355.7	63.4	-84.2	-17.5	-25.2	1.6
370.2	63.4	-84.1	-17.4	-25.8	1.6
384.7	63.4	-83.4	-17.4	-26.5	1.6
399.2	63.3	-83.0	-17.3	-27.2	1.6
413.7	63.3	-82.5	-17.2	-28.0	1.6
428.2	63.3	-81.8	-17.0	-29.0	1.6
442.7	63.2	-81.1	-16.9	-30.0	1.6
459.8	63.2	-82.0	-16.7	-30.8	1.6
479.9	63.2	-82.5	-16.5	-31.3	1.6
499.9	63.1	-83.5	-16.3	-31.5	1.6
519.9	63.1	-83.4	-15.9	-31.4	1.6
539.9	63.0	-83.8	-15.6	-31.9	1.6
560.0	63.0	-84.5	-15.3	-31.5	1.6
580.0	62.9	-84.5	-15.0	-29.7	1.6
600.0	62.9	-83.1	-14.4	-27.7	1.7