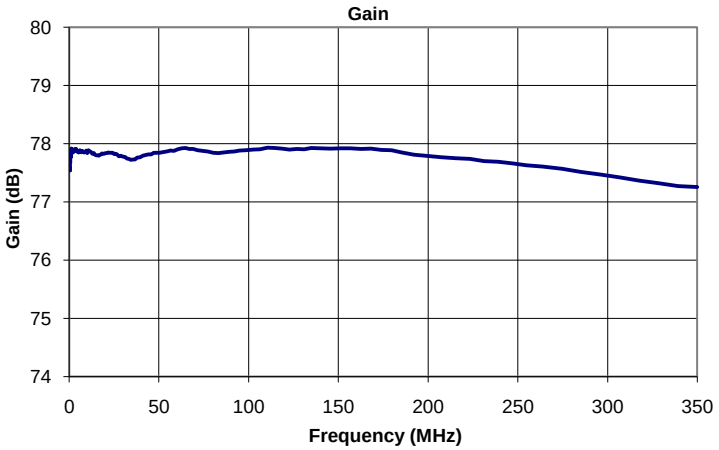
AU-1338

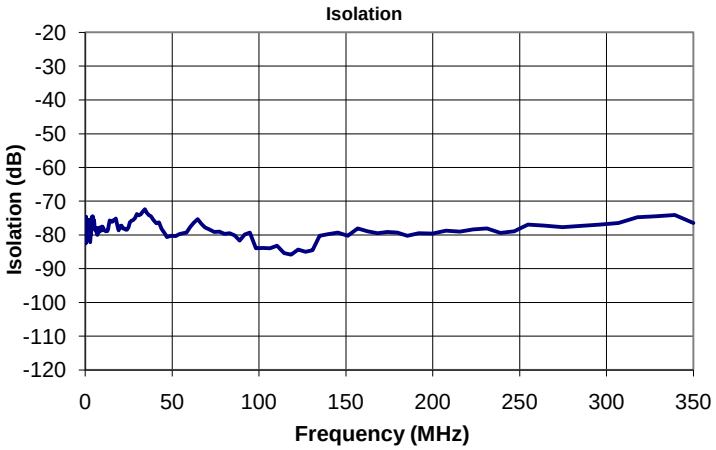
Features

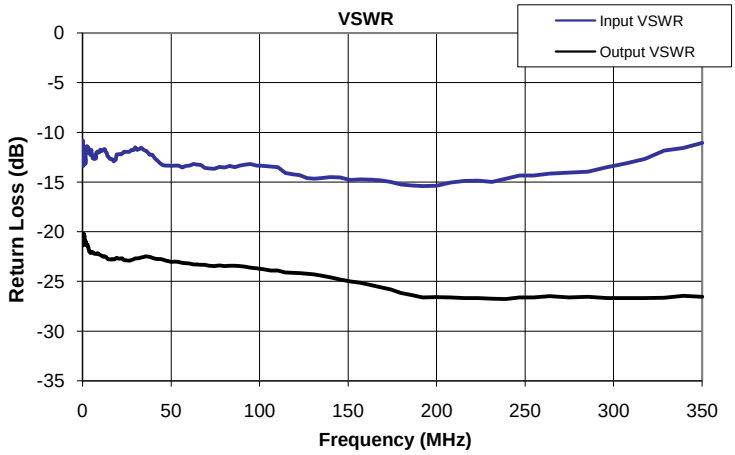
- 3-Year Warranty
- Very Low Noise Figure
- Very High Gain
- Internally regulated to +8V
- Reverse voltage protected
- Input Limiter Protected

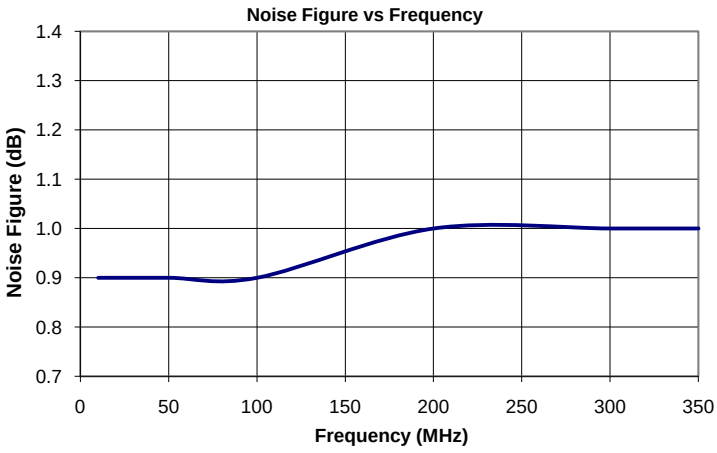
Parameter	Specification
Frequency Range	1-350 MHz
Gain	75 dB Min, 77 dB Typ.
Gain Flatness	± 0.75 dB Max, ± 0.5 dB Typ.
Input VSWR	2.0:1 Max.
Output VSWR	2.0:1 Max.
*Noise Figure (dB)	1.2, 1.2, 1.3
*Output P1dB	+16 dBm Min, +17 dBm Typ.
DC Voltage	+11 to +30V (Marked for +15V)
DC Current	140 mA

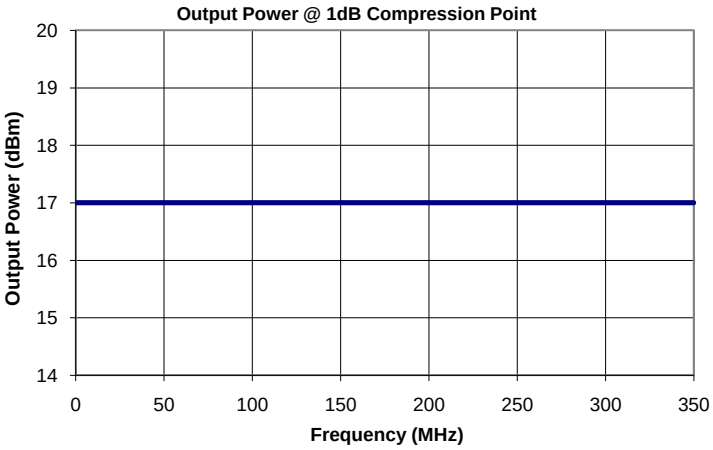
*Noise Figure at 10 MHz, 175 MHz & 350 MHz











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Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay
0.30	77.6	-82.5	-10.8	-21.4	186.3
0.31	77.5	-81.5	-13.1	-21.1	125.5
0.32	77.6	-80.9	-12.5	-21.1	115.1
0.34	77.6	-82.2	-12.3	-21.1	73.5
0.35	77.6	-80.3	-12.1	-21.1	78.9
0.36	77.6	-79.2	-12.1	-21.1	78.5
0.37	77.6	-77.3	-12.1	-21.0	61.0
0.39	77.7	-78.0	-11.4	-21.0	91.4
0.40	77.7	-77.7	-11.4	-20.9	123.9
0.41	77.7	-77.0	-11.9	-20.8	87.2
0.43	77.7	-76.4	-12.0	-20.7	86.9
0.45	77.8	-75.6	-12.1	-20.6	84.9
0.46	77.8	-75.0	-13.0	-20.4	84.8
0.48	77.8	-74.9	-12.9	-20.2	73.4
0.50	77.8	-75.7	-13.1	-20.2	75.3
0.51	77.8	-75.4	-13.0	-20.4	67.6
0.53	77.8	-75.1	-13.3	-20.4	21.4
0.55	77.8	-74.6	-13.3	-20.4	47.3
0.57	77.7	-76.4	-12.9	-20.4	30.0
0.59	77.8	-77.4	-13.1	-20.4	53.3
0.61	77.8	-78.0	-13.0	-20.4	51.9
0.64	77.8	-79.9	-12.0	-20.5	29.4
0.66	77.8	-81.7	-12.3	-20.5	12.4
0.68	77.8	-80.7	-12.8	-20.4	14.8
0.71	77.8	-81.2	-12.8	-20.4	22.8
0.73	77.8	-81.9	-12.7	-20.4	37.8
0.75	77.9	-81.4	-12.9	-20.2	21.9
0.78	77.9	-80.3	-12.8	-20.2	10.8
0.81	77.9	-79.8	-12.8	-20.3	20.1
0.84	77.9	-78.7	-12.8	-20.3	3.6
0.88	77.8	-77.6	-12.7	-20.4	15.5
0.91	77.8	-77.2	-12.7	-20.4	45.4
0.94	77.8	-77.9	-12.2	-20.5	16.8
0.97	77.9	-77.8	-12.3	-20.4	12.4
1.00	77.9	-78.3	-12.1	-20.5	19.0
1.04	77.9	-78.5	-12.0	-20.6	9.5
1.07	77.9	-78.8	-12.1	-20.6	20.0
1.11	77.9	-79.2	-12.0	-20.7	8.9
1.15	77.9	-78.4	-12.0	-20.7	12.8
1.20	77.9	-78.9	-12.1	-20.7	12.2
1.24	77.9	-77.7	-12.1	-20.7	2.1
1.29	77.9	-77.3	-12.5	-20.8	10.4
1.33	77.9	-77.8	-12.5	-20.9	12.1
1.38	77.9	-76.6	-12.9	-20.9	3.0
1.42	77.9	-77.9	-13.0	-20.9	5.6
1.47	77.9	-77.0	-12.7	-21.0	3.0
1.52	77.9	-76.2	-12.7	-21.0	8.8
1.58	77.9	-76.8	-12.8	-21.0	7.4
1.65	77.8	-76.2	-13.2	-21.0	6.9
1.71	77.9	-76.0	-13.0	-21.0	13.0
1.77	77.9	-76.2	-12.4	-21.0	3.3
1.83	77.9	-76.7	-12.2	-21.0	0.8
1.90	77.9	-76.8	-12.1	-21.1	7.8

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay
1.96	77.9	-75.6	-12.0	-21.2	9.0
2.02	77.9	-75.6	-11.9	-21.2	9.1
2.09	77.9	-76.0	-11.9	-21.2	6.6
2.18	77.9	-76.7	-11.7	-21.2	4.1
2.26	77.9	-78.4	-11.4	-21.3	7.6
2.35	77.9	-78.3	-11.4	-21.3	-1.5
2.43	77.9	-79.3	-11.5	-21.4	5.8
2.52	77.9	-78.6	-11.5	-21.4	6.9
2.60	77.9	-80.5	-11.4	-21.4	2.0
2.69	77.9	-80.5	-11.5	-21.3	5.7
2.77	77.9	-81.8	-11.8	-21.3	3.1
2.87	77.9	-82.1	-11.7	-21.4	0.3
2.99	77.9	-80.9	-11.7	-21.4	5.3
3.11	77.9	-79.3	-11.6	-21.5	6.0
3.23	77.9	-80.0	-11.5	-21.5	3.9
3.34	77.9	-79.3	-11.6	-21.6	2.2
3.46	77.9	-78.6	-12.0	-21.7	3.9
3.58	77.9	-76.4	-12.1	-21.8	4.5
3.70	77.9	-76.3	-12.0	-21.9	1.8
3.81	77.9	-74.9	-12.0	-22.0	3.9
3.95	77.9	-74.6	-12.0	-22.0	5.9
4.11	77.9	-75.1	-11.9	-22.0	1.6
4.27	77.9	-75.0	-12.1	-22.0	1.4
4.43	77.9	-74.5	-12.3	-22.1	2.4
4.59	77.9	-74.6	-12.2	-22.1	0.6
4.76	77.9	-75.4	-12.0	-22.0	1.1
4.92	77.9	-76.0	-11.8	-22.0	0.8
5.08	77.8	-75.7	-12.1	-22.0	2.6
5.24	77.8	-76.5	-12.2	-22.0	-1.1
5.43	77.9	-78.2	-12.2	-22.0	2.8
5.65	77.9	-78.1	-12.6	-22.1	0.7
5.87	77.9	-77.8	-12.6	-22.1	0.8
6.09	77.9	-78.9	-12.6	-22.1	1.4
6.31	77.9	-78.4	-12.7	-22.2	2.7
6.53	77.9	-78.5	-12.7	-22.2	2.9
6.76	77.9	-77.9	-12.7	-22.2	2.7
6.98	77.9	-80.0	-12.3	-22.2	2.6
7.20	77.9	-80.0	-12.5	-22.2	2.3
7.46	77.9	-78.8	-12.6	-22.2	1.9
7.77	77.9	-78.4	-12.1	-22.2	2.6
8.08	77.8	-79.2	-12.1	-22.2	2.1
8.39	77.8	-77.8	-11.9	-22.2	1.9
8.70	77.9	-78.4	-12.0	-22.2	1.7
9.01	77.9	-78.2	-12.0	-22.3	0.9
9.32	77.9	-78.7	-12.0	-22.3	2.3
9.63	77.9	-77.5	-11.9	-22.3	1.9
9.94	77.8	-78.0	-11.8	-22.3	2.6
10.2	77.9	-77.7	-11.8	-22.4	1.8
10.6	77.9	-78.6	-11.9	-22.4	2.6
11.0	77.9	-78.7	-11.9	-22.4	1.6
11.5	77.9	-78.8	-11.8	-22.5	1.8
11.9	77.9	-78.9	-11.7	-22.5	3.0
12.3	77.8	-78.7	-11.7	-22.5	1.9

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Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay
12.8	77.8	-78.8	-11.8	-22.5	1.2
13.2	77.8	-78.3	-12.0	-22.5	1.8
13.6	77.8	-77.2	-12.1	-22.6	1.4
14.1	77.8	-75.7	-12.4	-22.7	1.0
14.6	77.8	-76.1	-12.5	-22.8	2.3
15.2	77.8	-75.9	-12.6	-22.8	1.9
15.8	77.8	-76.1	-12.7	-22.8	1.8
16.4	77.8	-75.6	-12.7	-22.8	1.3
17.0	77.8	-75.5	-12.8	-22.7	2.0
17.6	77.8	-75.1	-12.9	-22.8	2.2
18.2	77.8	-76.3	-12.8	-22.8	1.4
18.8	77.8	-77.6	-12.8	-22.7	2.2
19.3	77.8	-78.6	-12.2	-22.6	2.1
20.0	77.8	-77.5	-12.2	-22.7	1.7
20.9	77.8	-77.2	-12.2	-22.7	1.7
21.7	77.8	-78.1	-12.2	-22.7	2.3
22.5	77.8	-78.0	-12.1	-22.7	2.0
23.3	77.8	-78.4	-12.0	-22.8	1.5
24.1	77.8	-78.5	-12.0	-22.9	1.5
24.9	77.8	-77.7	-12.0	-22.9	1.7
25.8	77.8	-76.3	-12.0	-22.9	1.4
26.6	77.8	-75.8	-12.0	-22.9	1.5
27.5	77.8	-75.7	-11.8	-22.8	1.5
28.7	77.8	-75.1	-11.8	-22.8	1.8
29.8	77.8	-73.9	-11.5	-22.7	1.4
30.9	77.8	-74.2	-11.8	-22.7	1.4
32.0	77.7	-73.9	-11.7	-22.7	1.6
33.2	77.7	-73.2	-11.5	-22.6	1.6
34.3	77.7	-72.4	-11.7	-22.6	1.8
35.4	77.7	-73.5	-11.8	-22.5	1.7
36.5	77.7	-74.1	-11.9	-22.5	2.0
37.8	77.8	-74.5	-12.2	-22.5	1.9
39.4	77.8	-75.6	-12.2	-22.6	1.6
40.9	77.8	-76.5	-12.6	-22.7	1.5
42.5	77.8	-76.3	-12.8	-22.7	2.0
44.0	77.8	-78.2	-13.1	-22.8	1.9
45.6	77.8	-79.4	-13.3	-22.8	1.9
47.1	77.8	-80.7	-13.3	-22.9	1.7
48.7	77.8	-80.4	-13.4	-23.0	1.4
50.2	77.8	-80.2	-13.4	-23.0	1.6
52.0	77.9	-80.3	-13.3	-23.0	1.6
54.1	77.9	-79.8	-13.4	-23.0	1.8
56.2	77.9	-79.5	-13.5	-23.1	1.9
58.4	77.9	-79.3	-13.4	-23.2	1.8
60.5	77.9	-77.6	-13.3	-23.2	1.9
62.6	77.9	-76.3	-13.2	-23.3	1.8
64.7	77.9	-75.4	-13.3	-23.3	1.9
66.8	77.9	-76.7	-13.3	-23.3	2.0
69.0	77.9	-77.8	-13.6	-23.3	1.6
71.5	77.9	-78.4	-13.6	-23.4	1.7
74.4	77.9	-79.1	-13.7	-23.4	1.8
77.3	77.9	-79.0	-13.5	-23.4	1.7
80.2	77.8	-79.7	-13.5	-23.5	1.7

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay
83.1	77.8	-79.5	-13.4	-23.4	1.9
86.0	77.8	-80.2	-13.5	-23.4	1.8
88.9	77.9	-81.6	-13.3	-23.5	1.8
91.9	77.9	-79.9	-13.2	-23.5	2.0
94.8	77.9	-79.3	-13.2	-23.6	1.8
98.2	77.9	-83.9	-13.4	-23.7	1.9
102.3	77.9	-83.9	-13.4	-23.8	1.8
106.3	77.9	-84.0	-13.4	-23.9	1.8
110.4	77.9	-83.2	-13.5	-23.9	1.9
114.5	77.9	-85.4	-14.1	-24.1	1.7
118.6	77.9	-85.8	-14.2	-24.1	1.8
122.7	77.9	-84.4	-14.3	-24.2	1.8
126.7	77.9	-85.0	-14.6	-24.2	1.7
130.8	77.9	-84.5	-14.7	-24.3	1.9
134.9	77.9	-80.3	-14.6	-24.4	1.8
139.8	77.9	-79.8	-14.5	-24.6	1.9
145.5	77.9	-79.3	-14.5	-24.8	1.8
151.2	77.9	-80.2	-14.8	-25.0	1.9
156.9	77.9	-78.1	-14.7	-25.1	1.9
162.6	77.9	-78.9	-14.8	-25.4	1.9
168.3	77.9	-79.5	-14.8	-25.6	1.8
174.0	77.9	-79.1	-15.0	-25.8	1.8
179.7	77.9	-79.3	-15.2	-26.2	1.9
185.4	77.8	-80.2	-15.3	-26.4	1.8
192.0	77.8	-79.5	-15.4	-26.6	1.8
199.9	77.8	-79.6	-15.4	-26.6	1.9
207.7	77.8	-78.8	-15.0	-26.6	1.8
215.5	77.8	-79.0	-14.9	-26.7	1.8
223.4	77.7	-78.3	-14.9	-26.7	1.9
231.2	77.7	-78.0	-15.0	-26.8	1.8
239.0	77.7	-79.4	-14.7	-26.8	1.8
246.9	77.7	-78.9	-14.3	-26.6	1.8
254.7	77.6	-76.9	-14.4	-26.6	1.9
263.9	77.6	-77.2	-14.2	-26.5	1.8
274.6	77.6	-77.7	-14.0	-26.6	1.8
285.4	77.5	-77.3	-14.0	-26.6	1.8
296.2	77.5	-77.0	-13.5	-26.7	1.8
306.9	77.4	-76.5	-13.1	-26.7	1.8
317.7	77.4	-74.8	-12.7	-26.7	1.9
328.5	77.3	-74.5	-11.8	-26.6	1.8
339.2	77.3	-74.1	-11.6	-26.5	1.9
350.0	77.3	-76.4	-11.1	-26.5	2.1