

AU-1310 & AU-1534

Features

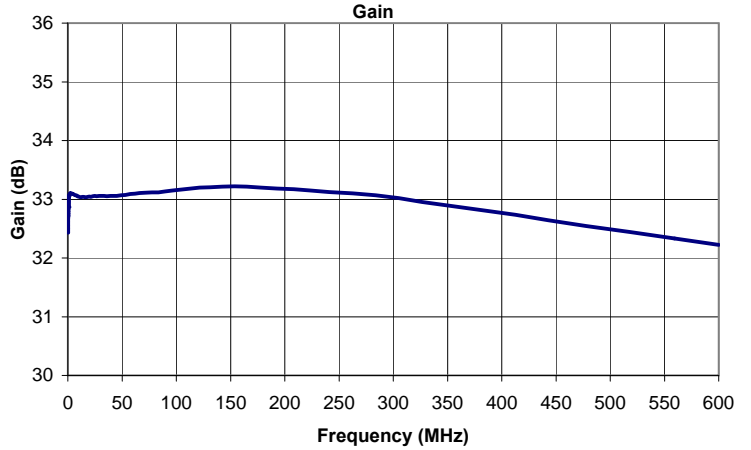
- Wideband
- Good gain flatness
- Very low frequency response

- Internally regulated to +12V
- Reverse voltage protected
- Input Limiter Protected

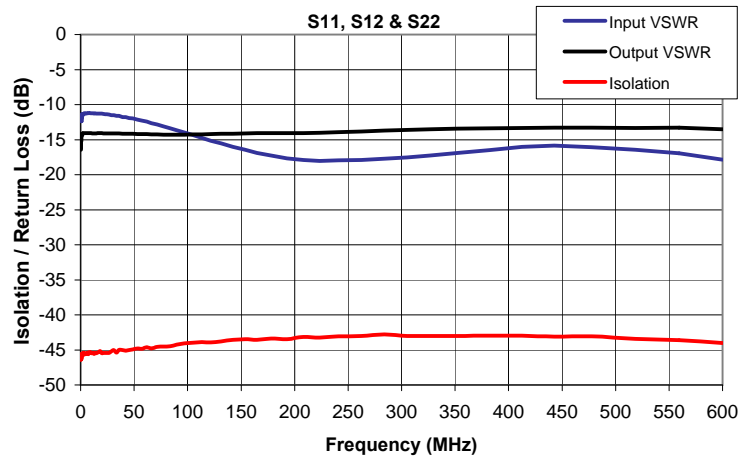
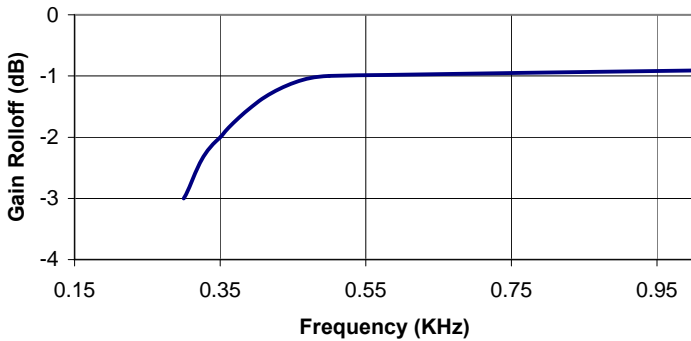
Parameter	Specification
Frequency Range (MHz)	0.001 - 500 MHz
Gain (dB)	30 dB Min, 33 dB Typ.
Gain Flatness (\pm dB)	\pm 0.5 dB Max.
Input VSWR (dBRL)	2.0:1 Max.
Output VSWR (dBRL)	2.0:1 Max.
*Noise Figure (dB)	*1.2, 1.3, 1.4
*Output P1dB (dBm)	*+9, +9, +8
DC Voltage	+15 to +30VDC
DC Current (mA)	50

*Noise Figure at 10 MHz, 2500 MHz & 500 MHz

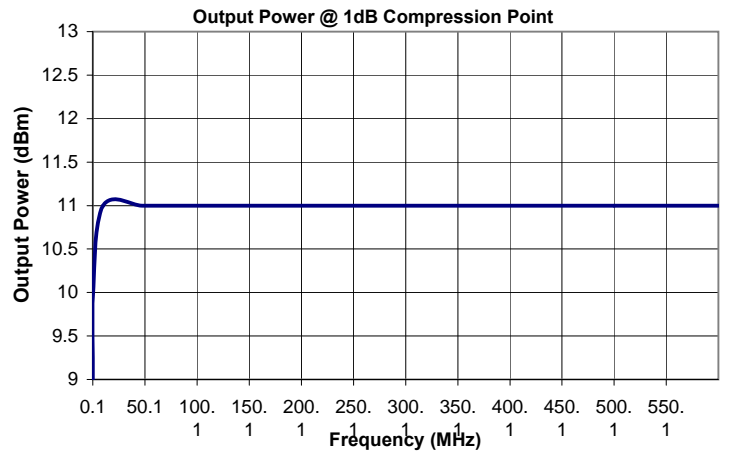
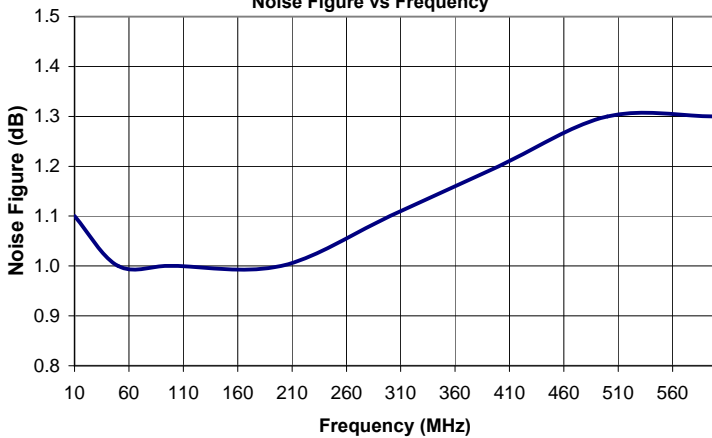
*P1dB at 0.1 MHz, 250 MHz & 500 MHz



Low Frequency Gain Rolloff



Noise Figure vs Frequency



AU-1310 & AU-1534

Freq (MHz)	Gain (dB)	Isolation (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)
0.3	32.4	-46	-12.1	-16.2
0.4	32.5	-46	-12.0	-16.0
0.4	32.6	-46	-12.0	-15.7
0.4	32.6	-46	-12.0	-15.5
0.4	32.7	-46	-11.9	-15.4
0.5	32.7	-46	-11.9	-15.2
0.5	32.8	-46	-11.8	-15.0
0.6	32.8	-46	-11.8	-14.9
0.6	32.8	-46	-11.8	-14.8
0.6	32.9	-46	-11.8	-14.7
0.7	32.9	-46	-11.7	-14.6
0.7	32.9	-46	-11.7	-14.6
0.8	32.9	-46	-12.4	-14.5
0.9	33.0	-46	-11.6	-14.4
0.9	33.0	-46	-11.6	-14.4
1.0	33.0	-46	-11.5	-14.3
1.1	33.0	-46	-11.3	-14.3
1.2	33.0	-46	-11.5	-14.2
1.3	33.1	-46	-11.4	-14.2
1.4	33.1	-46	-11.4	-14.2
1.5	33.1	-46	-11.4	-14.2
1.6	33.1	-46	-11.4	-14.2
1.7	33.1	-46	-11.4	-14.1
1.9	33.1	-45	-11.4	-14.1
2.0	33.1	-46	-11.3	-14.1
2.2	33.1	-46	-11.3	-14.1
2.3	33.1	-46	-11.3	-14.1
2.5	33.1	-45	-11.3	-14.1
2.7	33.1	-46	-11.3	-14.1
3.0	33.1	-45	-11.3	-14.1
3.2	33.1	-46	-11.3	-14.1
3.4	33.1	-46	-11.3	-14.1
3.7	33.1	-46	-11.2	-14.1
4.0	33.1	-46	-11.3	-14.1
4.3	33.1	-46	-11.2	-14.1
4.7	33.1	-46	-11.3	-14.1
5.0	33.1	-45	-11.3	-14.1
5.4	33.1	-45	-11.2	-14.1
5.8	33.1	-45	-11.2	-14.1
6.3	33.1	-46	-11.2	-14.1
6.8	33.1	-45	-11.2	-14.1
7.3	33.1	-46	-11.2	-14.1
7.9	33.1	-45	-11.2	-14.1
8.6	33.1	-45	-11.2	-14.1
9.2	33.0	-45	-11.2	-14.1
9.9	33.0	-45	-11.2	-14.1
10.7	33.0	-45	-11.2	-14.1
11.6	33.0	-45	-11.2	-14.1
12.4	33.0	-46	-11.3	-14.1
13.4	33.0	-45	-11.3	-14.1
14.6	33.0	-45	-11.3	-14.1

Freq (MHz)	Gain (dB)	Isolation (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)
0.3	32.4	-46	-12.1	-16.2
15.8	33.0	-45	-11.3	-14.1
17.0	33.0	-45	-11.3	-14.1
18.2	33.0	-45	-11.3	-14.1
19.6	33.0	-45	-11.3	-14.1
21.3	33.0	-45	-11.3	-14.1
23.0	33.1	-45	-11.4	-14.1
24.6	33.1	-45	-11.4	-14.1
26.6	33.1	-45	-11.4	-14.1
28.9	33.1	-45	-11.5	-14.1
31.1	33.1	-45	-11.5	-14.1
33.4	33.1	-45	-11.6	-14.1
36.0	33.1	-45	-11.6	-14.1
39.1	33.1	-45	-11.8	-14.1
42.2	33.1	-45	-11.8	-14.1
45.3	33.1	-45	-11.9	-14.2
48.8	33.1	-45	-12.0	-14.2
53.2	33.1	-45	-12.2	-14.2
57.5	33.1	-45	-12.3	-14.2
61.9	33.1	-45	-12.4	-14.2
66.2	33.1	-45	-12.7	-14.2
71.4	33.1	-45	-12.8	-14.3
77.5	33.1	-45	-13.1	-14.3
83.6	33.1	-44	-13.4	-14.3
89.7	33.1	-44	-13.7	-14.3
96.8	33.1	-44	-14.0	-14.3
105.1	33.2	-44	-14.4	-14.3
113.3	33.2	-44	-14.7	-14.2
121.6	33.2	-44	-15.2	-14.2
131.2	33.2	-44	-15.5	-14.2
142.4	33.2	-44	-16.0	-14.1
153.6	33.2	-43	-16.4	-14.1
164.8	33.2	-44	-16.9	-14.1
177.8	33.2	-43	-17.3	-14.1
193.0	33.2	-43	-17.7	-14.1
208.2	33.2	-43	-17.9	-14.0
223.4	33.1	-43	-18.0	-14.0
241.0	33.1	-43	-18.0	-13.9
262.4	33.1	-43	-17.9	-13.8
283.8	33.1	-43	-17.7	-13.7
305.2	33.0	-43	-17.5	-13.6
326.6	33.0	-43	-17.3	-13.5
352.4	32.9	-43	-16.9	-13.4
382.5	32.8	-43	-16.5	-13.4
412.6	32.7	-43	-16.0	-13.3
442.7	32.6	-43	-15.8	-13.3
477.7	32.5	-43	-16.1	-13.3
518.4	32.4	-43	-16.4	-13.3
559.2	32.3	-44	-17.0	-13.3
600.0	32.2	-44	-17.8	-13.5