

AM-1685

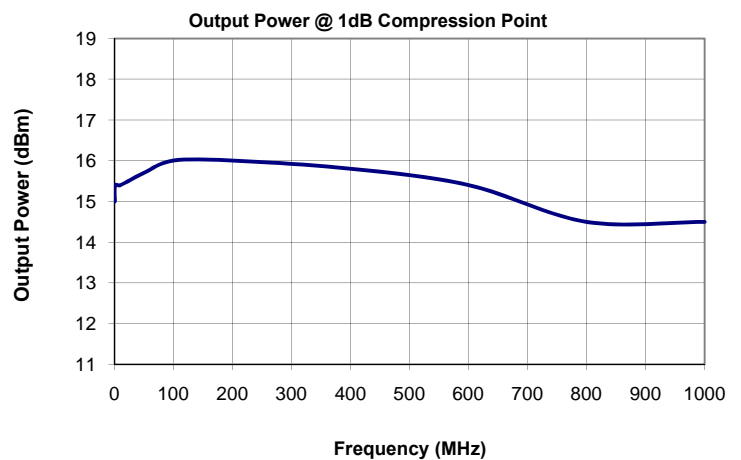
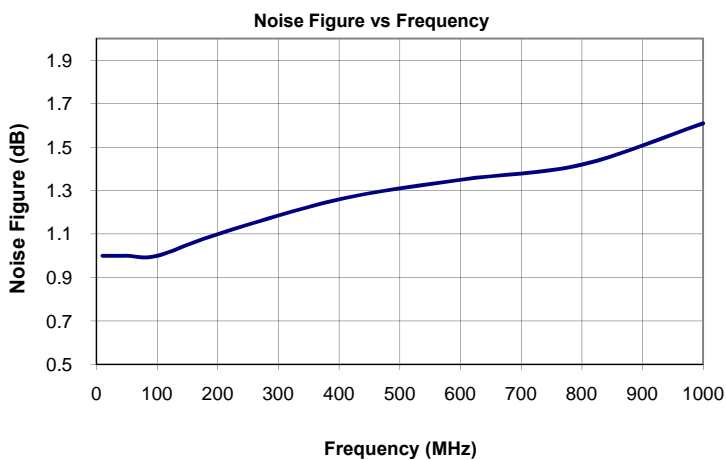
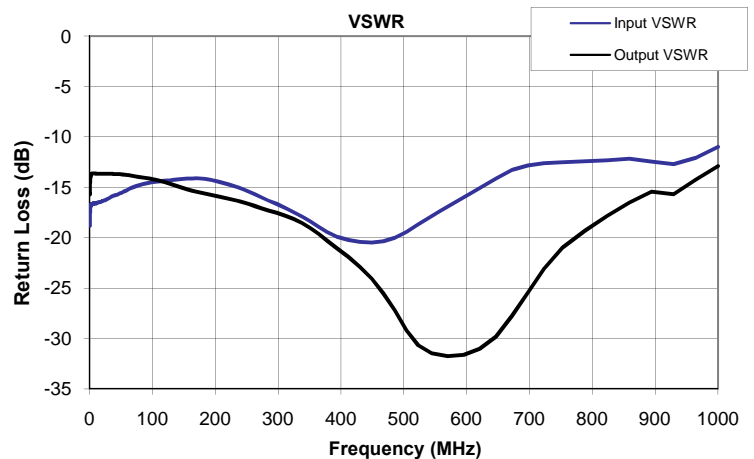
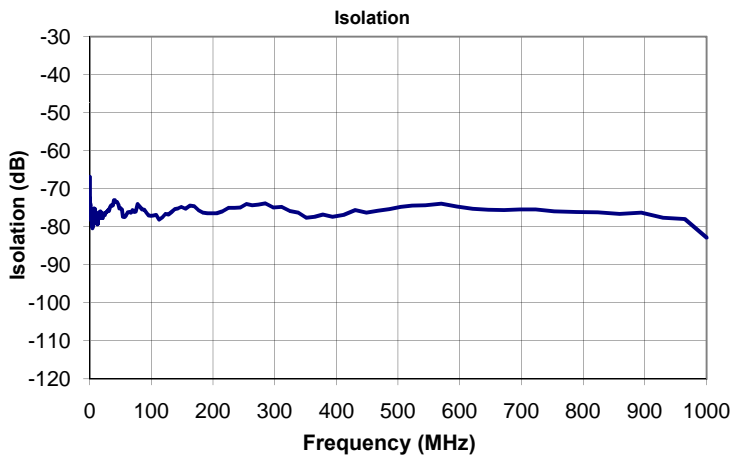
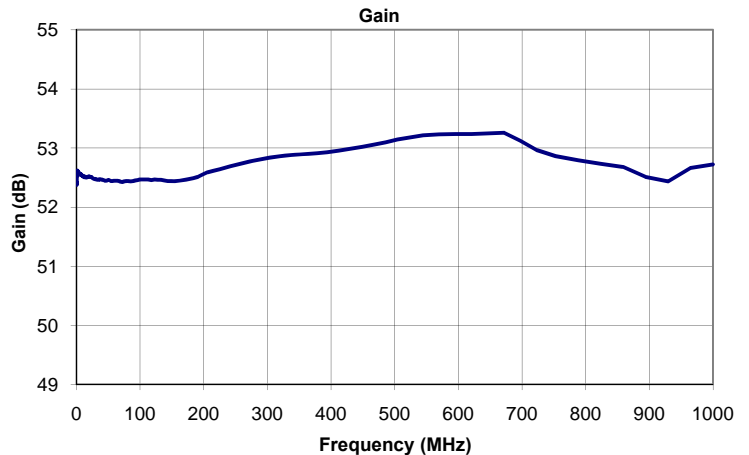
Features

- 3-Year Warranty
- Low Noise Figure
- Replaces model AM-4A-000110
- Internally regulated to +9V
- Reverse voltage protected
- Input Limiter Protected

Parameter	Specification
Frequency Range	0.3 - 1000 MHz Min.
Gain	50 dB Min, 52 dB Typ.
Gain Flatness	± 1.0 dB Max, ± 0.5 dB Typ.
Input VSWR	2.0:1 Max.
Output VSWR	2.0:1 Max.
*Noise Figure (dB)	1.3, 1.4, 1.8
*Output P1dB	14, 14, 13
DC Voltage	+12 to +30V (Marked for +15V)
DC Current	115 nA

*Noise Figure at 10 MHz, 500 MHz & 1000 MHz

*P1dB at 0.3 MHz, 500 MHz & 1000 MHz



2/12/2010

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Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay nS
0.30	52.4	-66.9	-18.9	-15.6	364.7
0.31	52.4	-77.2	-18.3	-15.7	187.2
0.33	52.4	-76.1	-18.3	-15.6	174.5
0.34	52.4	-75.2	-18.2	-15.5	163.2
0.36	52.4	-74.5	-18.2	-15.4	138.8
0.37	52.4	-74.6	-18.1	-15.3	117.4
0.38	52.4	-74.1	-18.0	-15.2	85.8
0.40	52.4	-72.5	-18.0	-15.1	110.5
0.41	52.5	-72.8	-17.9	-15.0	98.3
0.43	52.5	-73.0	-17.8	-15.0	91.4
0.45	52.5	-72.5	-17.8	-14.9	61.6
0.47	52.5	-72.6	-17.7	-14.8	72.5
0.49	52.5	-73.5	-17.6	-14.7	77.7
0.51	52.5	-73.4	-17.6	-14.7	64.2
0.53	52.5	-74.1	-17.6	-14.6	49.6
0.55	52.5	-74.6	-17.5	-14.6	46.2
0.57	52.5	-74.3	-17.5	-14.5	44.1
0.60	52.5	-74.6	-17.4	-14.5	31.6
0.63	52.6	-73.8	-17.4	-14.5	32.3
0.65	52.6	-74.2	-17.3	-14.4	33.9
0.68	52.6	-74.5	-17.3	-14.4	24.3
0.71	52.6	-74.5	-17.2	-14.3	29.9
0.74	52.6	-75.4	-17.2	-14.3	30.0
0.76	52.6	-75.2	-17.1	-14.3	26.7
0.79	52.6	-74.9	-17.1	-14.2	22.5
0.83	52.6	-74.8	-17.1	-14.2	22.7
0.87	52.6	-75.1	-17.0	-14.2	29.5
0.91	52.6	-76.1	-17.0	-14.1	22.8
0.94	52.6	-76.6	-17.0	-14.1	15.7
0.98	52.6	-76.5	-17.0	-14.1	21.0
1.02	52.6	-76.6	-17.0	-14.1	15.8
1.05	52.6	-76.2	-17.0	-14.1	15.7
1.10	52.6	-76.4	-17.0	-14.0	14.0
1.15	52.6	-77.1	-17.0	-14.0	11.1
1.20	52.6	-77.7	-16.9	-14.0	10.9
1.25	52.6	-76.7	-16.9	-14.0	6.7
1.30	52.6	-77.0	-16.9	-14.0	6.1
1.36	52.6	-76.9	-16.9	-13.9	10.1
1.41	52.6	-76.5	-16.9	-13.9	8.0
1.46	52.6	-77.0	-16.9	-13.9	5.0
1.52	52.6	-77.0	-16.9	-13.9	3.8
1.59	52.6	-77.8	-16.8	-13.9	4.9
1.66	52.6	-77.0	-16.8	-13.8	6.5
1.73	52.6	-77.5	-16.8	-13.8	3.6
1.80	52.6	-78.3	-16.8	-13.8	6.3
1.88	52.6	-76.9	-16.8	-13.8	7.9
1.95	52.6	-77.2	-16.8	-13.8	4.2
2.0	52.6	-77.3	-16.8	-13.8	4.6
2.1	52.6	-76.4	-16.8	-13.8	4.4
2.2	52.6	-76.8	-16.7	-13.7	5.5
2.3	52.6	-75.7	-16.7	-13.7	4.2
2.4	52.6	-75.9	-16.7	-13.7	5.5
2.5	52.6	-76.0	-16.7	-13.7	4.0

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay nS
2.6	52.6	-75.7	-16.7	-13.7	2.9
2.7	52.6	-77.1	-16.7	-13.7	2.2
2.8	52.6	-76.4	-16.7	-13.7	3.8
2.9	52.6	-76.7	-16.7	-13.7	2.7
3.0	52.6	-78.0	-16.7	-13.7	2.8
3.2	52.6	-77.5	-16.7	-13.7	3.1
3.3	52.6	-79.4	-16.7	-13.7	3.2
3.5	52.6	-79.4	-16.7	-13.7	2.1
3.6	52.6	-79.3	-16.7	-13.7	3.1
3.7	52.6	-79.1	-16.7	-13.7	1.6
3.9	52.6	-78.8	-16.7	-13.6	1.7
4.0	52.6	-79.6	-16.7	-13.6	2.4
4.2	52.6	-80.4	-16.7	-13.6	2.0
4.4	52.6	-79.2	-16.7	-13.6	2.5
4.6	52.6	-79.8	-16.7	-13.6	1.1
4.8	52.6	-78.3	-16.7	-13.6	2.6
5.0	52.6	-78.3	-16.6	-13.6	2.2
5.2	52.6	-77.6	-16.6	-13.6	2.0
5.3	52.6	-77.2	-16.6	-13.6	2.4
5.6	52.5	-77.3	-16.6	-13.6	2.3
5.8	52.6	-77.1	-16.6	-13.6	1.5
6.1	52.6	-76.2	-16.6	-13.6	1.2
6.3	52.6	-76.0	-16.6	-13.6	1.5
6.6	52.6	-75.2	-16.6	-13.6	2.1
6.9	52.5	-75.2	-16.6	-13.6	1.0
7.1	52.5	-75.6	-16.6	-13.6	0.9
7.4	52.5	-75.4	-16.6	-13.6	1.0
7.7	52.5	-75.7	-16.6	-13.6	1.6
8.1	52.5	-75.3	-16.6	-13.6	1.3
8.4	52.5	-76.1	-16.6	-13.6	1.5
8.8	52.5	-76.4	-16.6	-13.6	2.2
9.1	52.5	-76.3	-16.6	-13.6	1.6
9.5	52.5	-77.9	-16.6	-13.7	1.3
9.9	52.5	-79.0	-16.6	-13.7	1.7
10.2	52.5	-78.8	-16.6	-13.7	1.7
10.6	52.5	-78.8	-16.6	-13.7	2.0
11.1	52.5	-79.0	-16.6	-13.7	1.3
11.6	52.5	-79.3	-16.6	-13.7	1.3
12.1	52.5	-79.4	-16.5	-13.7	1.4
12.6	52.5	-79.0	-16.5	-13.7	1.4
13.1	52.5	-79.2	-16.5	-13.7	1.4
13.6	52.5	-77.4	-16.5	-13.7	1.3
14.1	52.5	-76.4	-16.5	-13.7	1.5
14.7	52.5	-76.2	-16.5	-13.7	1.7
15.4	52.5	-77.4	-16.5	-13.7	1.2
16.1	52.5	-77.7	-16.5	-13.7	1.3
16.8	52.5	-77.1	-16.5	-13.7	1.3
17.5	52.5	-75.9	-16.5	-13.7	1.2
18.3	52.5	-76.2	-16.5	-13.7	1.2
19.0	52.5	-77.2	-16.4	-13.7	1.3
19.7	52.5	-77.7	-16.4	-13.7	1.4
20.4	52.5	-77.7	-16.4	-13.7	1.2
21.2	52.5	-77.7	-16.4	-13.7	1.2

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Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay nS
22.2	52.5	-76.5	-16.3	-13.7	1.1
23.2	52.5	-76.4	-16.3	-13.7	1.3
24.2	52.5	-77.0	-16.3	-13.7	1.3
25.2	52.5	-76.5	-16.3	-13.7	1.4
26.2	52.5	-76.3	-16.2	-13.7	1.2
27.2	52.5	-76.0	-16.2	-13.7	1.4
28.2	52.5	-76.0	-16.2	-13.7	1.3
29.3	52.5	-75.7	-16.1	-13.7	1.4
30.7	52.5	-75.9	-16.1	-13.7	1.1
32.1	52.5	-75.3	-16.1	-13.7	1.3
33.5	52.5	-74.7	-16.0	-13.7	1.2
34.9	52.5	-74.4	-15.9	-13.7	1.3
36.2	52.5	-74.5	-15.9	-13.7	1.2
37.6	52.5	-74.4	-15.9	-13.7	1.3
39.0	52.5	-73.0	-15.8	-13.7	1.2
40.6	52.5	-73.0	-15.8	-13.7	1.1
42.5	52.5	-73.5	-15.8	-13.7	1.3
44.4	52.4	-73.5	-15.7	-13.7	1.3
46.3	52.4	-74.2	-15.7	-13.7	1.4
48.2	52.5	-75.2	-15.6	-13.7	1.3
50.1	52.5	-75.1	-15.6	-13.7	1.3
52.0	52.4	-75.5	-15.5	-13.7	1.2
53.9	52.4	-77.4	-15.5	-13.8	1.3
56.2	52.4	-77.4	-15.4	-13.8	1.2
58.8	52.4	-77.0	-15.3	-13.8	1.3
61.4	52.4	-76.2	-15.2	-13.8	1.1
64.1	52.4	-76.1	-15.1	-13.8	1.3
66.7	52.4	-76.3	-15.1	-13.9	1.2
69.3	52.4	-75.6	-15.0	-13.9	1.2
72.0	52.4	-76.1	-15.0	-13.9	1.3
74.6	52.4	-76.1	-14.9	-14.0	1.3
77.7	52.4	-74.0	-14.8	-14.0	1.2
81.3	52.4	-74.7	-14.7	-14.0	1.3
85.0	52.4	-75.4	-14.7	-14.1	1.2
88.6	52.4	-75.6	-14.6	-14.1	1.2
92.2	52.4	-76.3	-14.6	-14.1	1.2
95.9	52.5	-77.0	-14.6	-14.1	1.2
99.5	52.5	-77.1	-14.5	-14.2	1.3
103	52.5	-77.0	-14.5	-14.3	1.3
107	52.5	-76.9	-14.4	-14.3	1.2
112	52.5	-78.1	-14.4	-14.4	1.3
118	52.5	-77.5	-14.4	-14.5	1.2
123	52.5	-76.6	-14.3	-14.6	1.3
128	52.5	-76.8	-14.3	-14.7	1.3
133	52.5	-76.1	-14.3	-14.8	1.2
138	52.4	-75.3	-14.2	-14.9	1.2
143	52.4	-75.2	-14.2	-15.0	1.3
149	52.4	-74.7	-14.2	-15.1	1.2
156	52.4	-75.3	-14.1	-15.2	1.3
163	52.4	-74.4	-14.1	-15.4	1.2
170	52.5	-74.6	-14.1	-15.5	1.3
177	52.5	-75.7	-14.1	-15.6	1.2
183	52.5	-76.3	-14.2	-15.6	1.2

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay nS
190	52.5	-76.4	-14.2	-15.7	1.3
197	52.5	-76.4	-14.3	-15.8	1.3
206	52.6	-76.5	-14.5	-15.9	1.2
215	52.6	-75.9	-14.6	-16.1	1.3
225	52.6	-75.0	-14.8	-16.2	1.3
235	52.7	-75.0	-15.0	-16.3	1.3
244	52.7	-74.9	-15.2	-16.5	1.3
254	52.7	-74.0	-15.5	-16.7	1.3
263	52.8	-74.4	-15.7	-16.9	1.3
273	52.8	-74.2	-16.0	-17.1	1.3
284	52.8	-73.8	-16.3	-17.3	1.3
298	52.8	-74.9	-16.7	-17.6	1.3
311	52.8	-74.8	-17.0	-17.8	1.3
324	52.9	-75.9	-17.5	-18.1	1.3
338	52.9	-76.3	-17.9	-18.6	1.3
351	52.9	-77.6	-18.4	-19.1	1.3
364	52.9	-77.3	-18.9	-19.6	1.3
378	52.9	-76.8	-19.4	-20.3	1.3
393	52.9	-77.3	-19.9	-21.1	1.3
412	53.0	-76.9	-20.2	-21.9	1.3
430	53.0	-75.6	-20.4	-23.0	1.3
449	53.0	-76.3	-20.5	-24.1	1.3
467	53.1	-75.7	-20.4	-25.5	1.3
486	53.1	-75.3	-20.0	-27.2	1.3
504	53.1	-74.8	-19.5	-29.2	1.3
523	53.2	-74.5	-18.7	-30.7	1.4
544	53.2	-74.4	-17.9	-31.5	1.4
570	53.2	-74.0	-16.9	-31.8	1.4
595	53.2	-74.7	-16.0	-31.6	1.4
621	53.2	-75.3	-15.1	-31.0	1.4
646	53.2	-75.5	-14.1	-29.8	1.4
672	53.3	-75.6	-13.3	-27.8	1.4
697	53.1	-75.4	-12.9	-25.5	1.4
723	53.0	-75.4	-12.6	-23.1	1.4
753	52.9	-75.9	-12.5	-21.0	1.4
788	52.8	-76.1	-12.4	-19.3	1.4
823	52.7	-76.2	-12.3	-17.9	1.4
859	52.7	-76.6	-12.2	-16.5	1.4
894	52.5	-76.2	-12.5	-15.4	1.4
929	52.4	-77.6	-12.7	-15.7	1.4
965	52.7	-78.0	-12.1	-14.2	1.6
1000	52.7	-82.8	-11.0	-12.9	1.6