AM-1594 Series

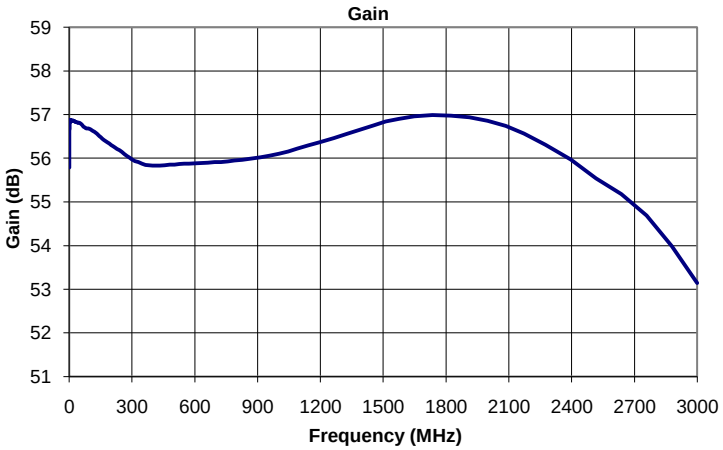
Features

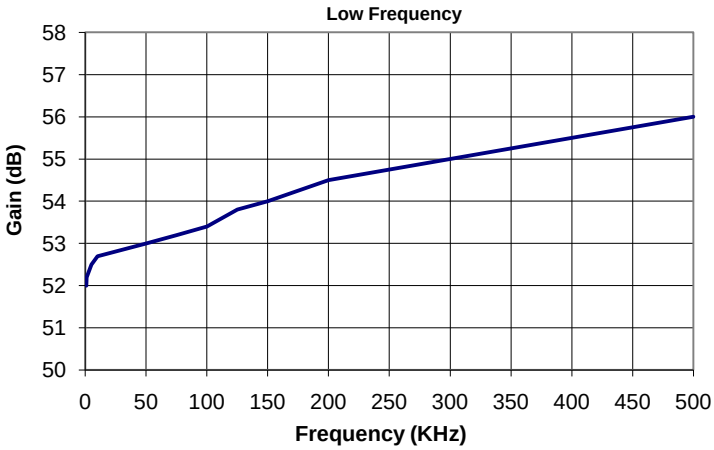
- Very Broadband Response
- 3-Year Warranty
- Internally regulated to +12V
- Reverse voltage protected

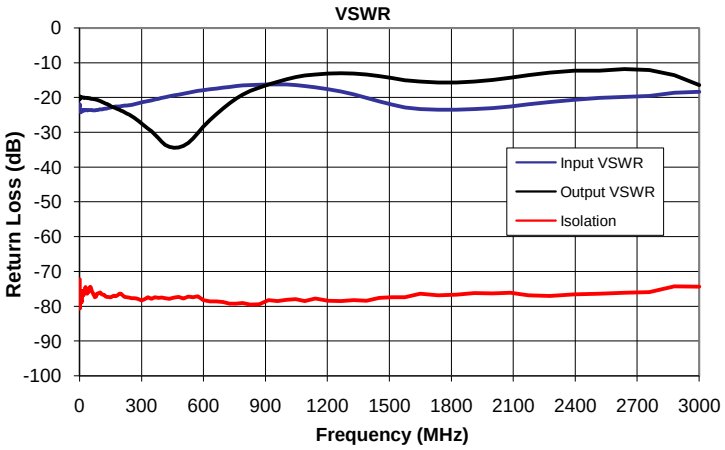
Parameter	Specification
Frequency Range	0.3 - 3000 MHz
Gain	54 dB Min, 56 dB Typ.
Gain Flatness	± 2.2 dB Max, ±2.0 dB Typ.
Input VSWR	2.0:1 Max.
Output VSWR	2.0:1 Max.
*Noise Figure (dB)	3.6, 3.9, 4.4
*Output P1dB	+16, +15, +11
DC Voltage	+15V
DC Current	140 mA

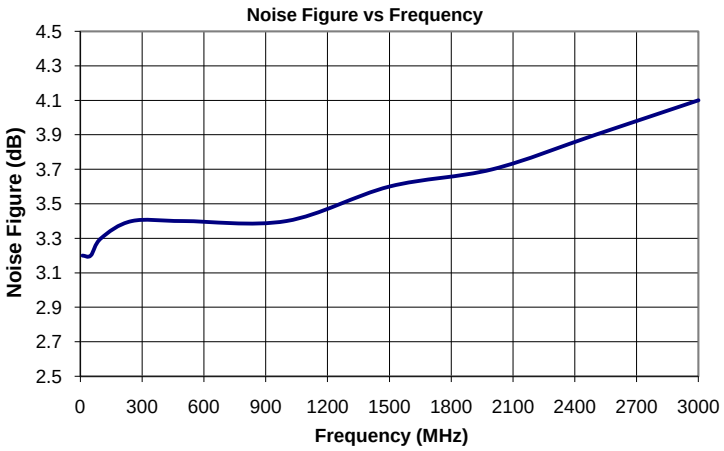
*Noise Figure at 10 MHz, 1500 MHz & 3000 MHz

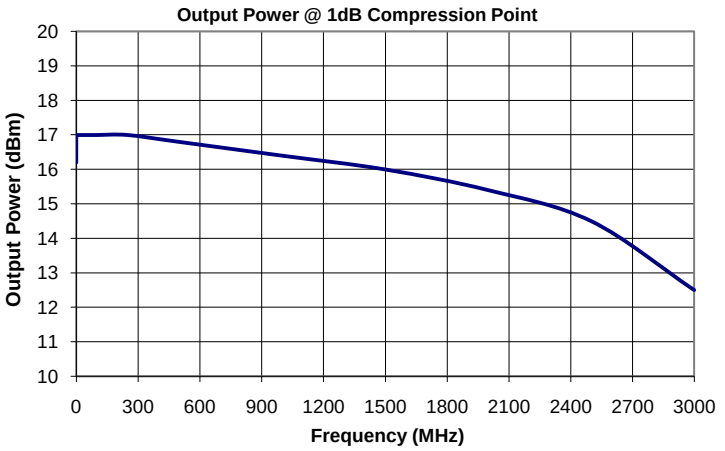
*P1dB at 100 KHz, 1500 MHz & 3000 MHz











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8/18/2010

AM-1594 Series

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay (Ns)
0.30	55.8	-72.2	-22.1	-20.1	-88.0
0.32	55.8	-80.6	-22.0	-20.1	-79.6
0.33	55.9	-79.5	-22.2	-20.3	-28.2
0.35	56.0	-78.4	-22.3	-20.3	-8.2
0.36	56.0	-79.0	-22.3	-20.4	8.8
0.38	56.0	-79.4	-22.3	-20.4	19.1
0.40	56.1	-77.6	-22.3	-20.4	30.4
0.41	56.1	-77.8	-22.3	-20.5	31.2
0.44	56.2	-78.0	-22.4	-20.5	15.6
0.46	56.2	-77.6	-22.3	-20.5	24.7
0.48	56.2	-77.5	-22.4	-20.4	29.8
0.50	56.3	-77.4	-22.4	-20.4	25.9
0.52	56.3	-77.8	-22.4	-20.4	17.0
0.55	56.3	-77.1	-22.5	-20.4	18.0
0.57	56.4	-76.8	-22.5	-20.4	16.0
0.60	56.4	-76.6	-22.6	-20.3	18.6
0.63	56.4	-76.6	-22.7	-20.3	21.0
0.66	56.4	-76.1	-22.8	-20.3	22.9
0.70	56.5	-76.5	-22.9	-20.3	23.6
0.73	56.5	-76.7	-22.9	-20.2	11.4
0.76	56.5	-76.6	-23.0	-20.2	14.4
0.79	56.5	-76.0	-23.1	-20.1	14.6
0.83	56.6	-76.0	-23.1	-20.1	9.5
0.87	56.6	-76.2	-23.2	-20.1	12.5
0.91	56.6	-76.3	-23.3	-20.1	11.8
0.96	56.6	-76.5	-23.4	-20.0	14.6
1.00	56.6	-76.9	-23.4	-20.0	10.6
1.05	56.7	-76.3	-23.4	-20.0	10.4
1.09	56.7	-76.2	-23.5	-20.0	11.1
1.14	56.7	-76.3	-23.5	-19.9	11.4
1.20	56.7	-76.2	-23.5	-19.9	11.2
1.26	56.7	-76.8	-23.5	-19.9	8.2
1.32	56.7	-77.1	-23.5	-19.8	6.9
1.38	56.7	-76.9	-23.6	-19.8	6.1
1.44	56.8	-76.5	-23.6	-19.8	6.6
1.50	56.8	-76.3	-23.6	-19.8	5.8
1.57	56.8	-76.5	-23.7	-19.8	5.1
1.66	56.8	-77.0	-23.7	-19.8	3.1
1.74	56.8	-77.5	-23.7	-19.8	4.0
1.82	56.8	-77.2	-23.8	-19.8	4.2
1.91	56.8	-76.2	-23.8	-19.8	5.3
1.99	56.8	-76.2	-23.8	-19.8	5.8
2.08	56.8	-76.1	-23.8	-19.8	3.5
2.17	56.8	-76.2	-23.8	-19.8	3.9
2.29	56.8	-76.1	-23.8	-19.8	3.6
2.40	56.8	-76.6	-23.7	-19.9	3.6
2.52	56.8	-76.6	-23.7	-19.9	5.2
2.63	56.9	-76.5	-23.7	-19.9	3.3
2.75	56.8	-77.2	-23.6	-19.9	3.0
2.86	56.9	-77.7	-23.7	-19.9	2.6
3.00	56.9	-77.3	-23.7	-19.9	2.8
3.16	56.9	-77.6	-23.7	-19.9	2.0
3.32	56.9	-78.0	-23.7	-19.9	2.2
3.48	56.9	-77.7	-23.7	-19.9	2.3
3.64	56.9	-77.6	-23.8	-19.9	1.9
3.80	56.9	-77.9	-23.8	-19.9	1.9
3.95	56.9	-77.5	-23.9	-19.9	1.3
4.14	56.9	-77.1	-24.0	-19.9	2.3
4.37	56.9	-77.0	-24.0	-19.9	2.0
4.59	56.9	-77.1	-24.0	-19.9	1.2
4.82	56.9	-76.8	-24.0	-19.9	1.7
5.04	56.9	-76.2	-24.1	-19.9	1.4
5.27	56.9	-76.9	-24.1	-19.9	1.5
5.49	56.9	-76.9	-24.2	-19.9	1.3
5.72	56.9	-76.1	-24.2	-19.9	1.0
5.99	56.9	-76.3	-24.2	-19.9	1.6
6.30	56.9	-76.1	-24.2	-19.9	1.1
6.62	56.8	-76.1	-24.2	-19.9	1.0
6.94	56.9	-76.9	-24.2	-19.9	1.2
7.26	56.9	-77.6	-24.1	-19.9	1.2
7.57	56.9	-78.7	-24.1	-20.0	1.5
7.89	56.9	-78.3	-24.0	-20.0	1.3
8.26	56.8	-78.3	-24.0	-20.0	1.6
8.70	56.9	-78.6	-23.9	-20.0	1.5
9.14	56.9	-78.8	-23.9	-20.0	1.4
9.6	56.9	-78.7	-23.8	-20.0	1.3
10.0	56.9	-78.7	-23.8	-20.0	1.4
10.5	56.9	-77.6	-23.7	-20.0	1.3
10.9	56.9	-77.2	-23.8	-20.0	1.4
11.4	56.9	-76.4	-23.8	-20.0	1.4
12.0	56.9	-76.1	-23.7	-20.0	1.5
12.6	56.9	-76.1	-23.7	-20.0	1.1
13.2	56.9	-75.9	-23.7	-20.0	1.3
13.8	56.9	-75.6	-23.8	-20.1	0.9
14.4	56.9	-75.9	-23.8	-20.1	1.3
15.0	56.9	-75.7	-23.8	-20.1	1.4
15.7	56.9	-76.2	-23.7	-20.0	1.3
16.6	56.9	-76.1	-23.7	-20.0	1.0
17.4	56.9	-76.3	-23.7	-20.0	1.1
18.2	56.9	-76.8	-23.7	-20.0	1.0
19.1	56.9	-76.7	-23.6	-20.0	1.2
19.9	56.9	-76.5	-23.6	-20.0	1.2
20.8	56.9	-76.1	-23.6	-20.0	1.3
21.7	56.9	-75.9	-23.6	-20.0	0.9
22.9	56.9	-75.7	-23.6	-20.1	1.1
24.1	56.9	-75.4	-23.7	-20.1	1.1
25.3	56.8	-75.1	-23.6	-20.1	1.2
26.5	56.8	-75.1	-23.6	-20.1	1.0
27.6	56.8	-74.4	-23.6	-20.1	1.2
28.8	56.8	-74.6	-23.7	-20.1	1.1
30.0	56.8	-74.7	-23.7	-20.1	1.2
31.4	56.8	-75.5	-23.6	-20.1	1.0
33.1	56.8	-75.4	-23.6	-20.1	1.1
34.7	56.8	-76.1	-23.6	-20.1	1.0
36.4	56.8	-76.3	-23.6	-20.1	1.0
38.1	56.8	-76.3	-23.7	-20.1	1.2

AM-1594 Series

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay (Ns)
39.7	56.8	-76.0	-23.6	-20.2	1.2
41.4	56.8	-75.9	-23.6	-20.2	1.2
43.4	56.8	-75.3	-23.6	-20.2	1.0
45.7	56.8	-75.6	-23.6	-20.2	1.1
48.0	56.8	-74.5	-23.6	-20.3	1.2
50.3	56.8	-74.8	-23.6	-20.3	1.2
52.6	56.8	-74.5	-23.6	-20.3	1.2
54.9	56.8	-74.8	-23.5	-20.4	1.2
57.2	56.8	-75.4	-23.6	-20.4	1.1
59.9	56.8	-75.7	-23.6	-20.4	1.1
63.0	56.8	-76.0	-23.7	-20.4	1.1
66.2	56.7	-76.6	-23.7	-20.5	1.2
69.4	56.7	-76.6	-23.7	-20.5	1.1
72.6	56.7	-77.3	-23.6	-20.5	1.1
75.7	56.7	-77.2	-23.6	-20.6	1.1
78.9	56.7	-77.2	-23.6	-20.6	1.1
82.6	56.7	-76.4	-23.6	-20.7	1.0
87.0	56.7	-76.2	-23.5	-20.7	1.1
91.4	56.7	-76.3	-23.5	-20.8	1.1
95.8	56.7	-76.1	-23.4	-20.9	1.1
100	56.7	-76.0	-23.4	-21.0	1.1
105	56.7	-76.4	-23.4	-21.2	1.1
109	56.6	-76.6	-23.4	-21.3	1.1
114	56.6	-76.7	-23.3	-21.4	1.1
120	56.6	-76.8	-23.2	-21.6	1.1
126	56.6	-77.2	-23.2	-21.7	1.1
132	56.6	-77.3	-23.1	-21.9	1.1
138	56.5	-77.2	-23.0	-22.1	1.1
144	56.5	-77.4	-23.0	-22.3	1.1
150	56.5	-77.4	-22.8	-22.5	1.1
157	56.4	-77.2	-22.8	-22.7	1.0
166	56.4	-76.9	-22.6	-22.9	1.1
175	56.4	-77.1	-22.6	-23.1	1.0
183	56.4	-76.8	-22.6	-23.3	1.1
192	56.3	-76.4	-22.5	-23.5	1.0
200	56.3	-76.4	-22.5	-23.8	1.0
209	56.3	-76.9	-22.4	-24.0	1.0
217	56.2	-77.3	-22.3	-24.3	1.0
228	56.2	-77.4	-22.2	-24.6	1.0
240	56.2	-77.4	-22.2	-24.9	1.0
252	56.1	-77.7	-22.1	-25.3	1.0
264	56.1	-77.6	-21.9	-25.8	1.0
276	56.1	-77.7	-21.8	-26.3	1.0
288	56.0	-78.0	-21.6	-26.9	1.0
300	56.0	-78.3	-21.4	-27.5	1.0
314	55.9	-77.9	-21.2	-28.2	1.0
331	55.9	-77.4	-21.0	-28.9	1.0
347	55.9	-77.8	-20.8	-29.7	1.0
364	55.9	-77.4	-20.6	-30.7	1.0
381	55.8	-77.5	-20.3	-31.7	1.0
397	55.8	-77.5	-20.1	-32.7	1.0
414	55.8	-77.6	-19.9	-33.6	1.0
434	55.8	-77.8	-19.6	-34.2	1.0

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay (Ns)
457	55.8	-77.4	-19.4	-34.5	1.0
480	55.9	-77.3	-19.2	-34.3	1.0
503	55.9	-77.7	-18.9	-33.9	1.0
526	55.9	-77.2	-18.6	-33.1	1.0
549	55.9	-77.3	-18.4	-31.8	1.0
572	55.9	-77.1	-18.1	-30.2	1.0
599	55.9	-78.2	-17.9	-28.4	1.0
630	55.9	-78.6	-17.6	-26.5	1.0
662	55.9	-78.6	-17.4	-24.8	1.0
694	55.9	-78.8	-17.2	-23.2	1.0
726	55.9	-79.2	-16.9	-21.7	1.0
757	55.9	-79.2	-16.7	-20.3	1.0
789	55.9	-79.0	-16.5	-19.2	1.0
826	56.0	-79.5	-16.4	-18.1	1.0
870	56.0	-79.4	-16.3	-17.1	1.0
914	56.0	-78.2	-16.2	-16.3	1.0
958	56.1	-78.5	-16.2	-15.5	1.0
1002	56.1	-78.1	-16.3	-14.8	1.0
1045	56.2	-77.9	-16.4	-14.2	1.0
1089	56.2	-78.4	-16.6	-13.7	1.0
1141	56.3	-77.8	-17.0	-13.4	1.0
1203	56.4	-78.3	-17.6	-13.2	1.0
1265	56.5	-78.4	-18.3	-13.1	1.0
1327	56.6	-78.2	-19.0	-13.2	1.1
1388	56.7	-78.3	-20.0	-13.4	1.1
1450	56.7	-77.5	-21.1	-13.9	1.1
1512	56.8	-77.4	-22.0	-14.4	1.1
1574	56.9	-77.4	-22.8	-15.0	1.1
1649	57.0	-76.4	-23.3	-15.4	1.1
1736	57.0	-76.9	-23.5	-15.7	1.1
1824	57.0	-76.6	-23.5	-15.7	1.1
1911	56.9	-76.2	-23.3	-15.4	1.1
1998	56.9	-76.3	-23.0	-15.0	1.1
2086	56.7	-76.1	-22.5	-14.4	1.1
2173	56.6	-76.8	-22.0	-13.6	1.1
2276	56.3	-77.0	-21.3	-12.9	1.1
2396	56.0	-76.6	-20.6	-12.3	1.1
2517	55.5	-76.4	-20.1	-12.3	1.1
2638	55.2	-76.1	-19.8	-11.8	1.1
2759	54.7	-75.9	-19.6	-12.1	1.1
2879	54.0	-74.2	-18.7	-13.5	1.1
3000	53.1	-74.4	-18.3	-16.5	1.1