

AM-1598 Series

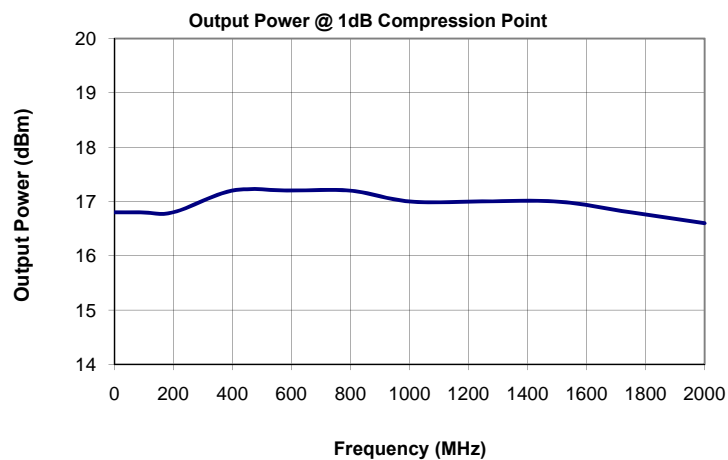
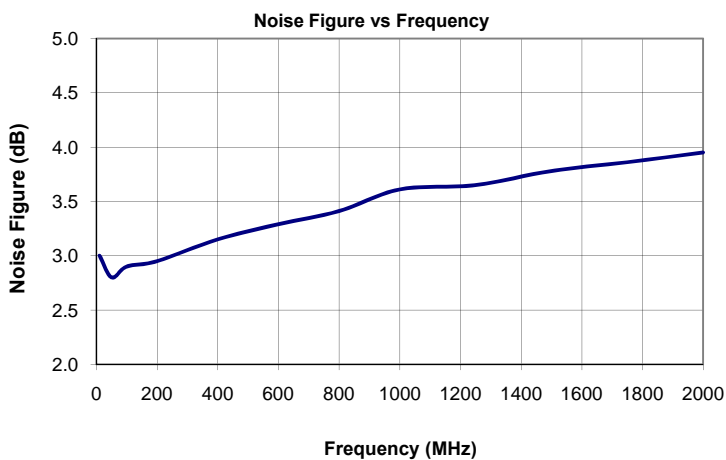
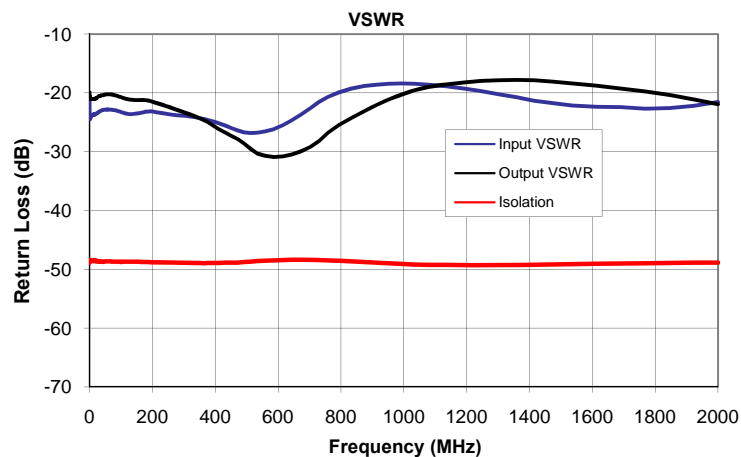
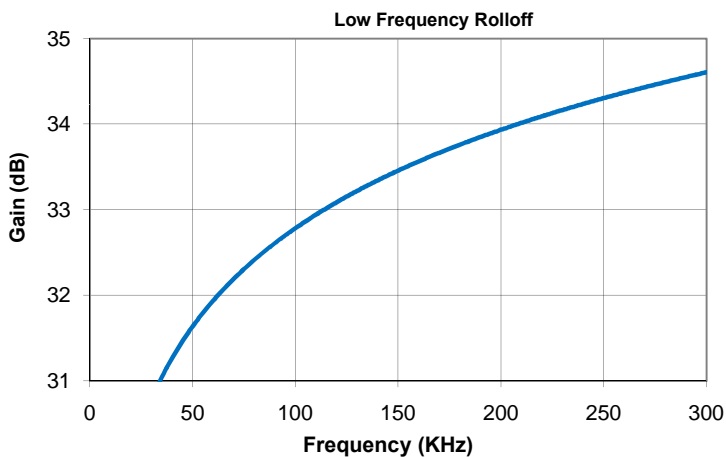
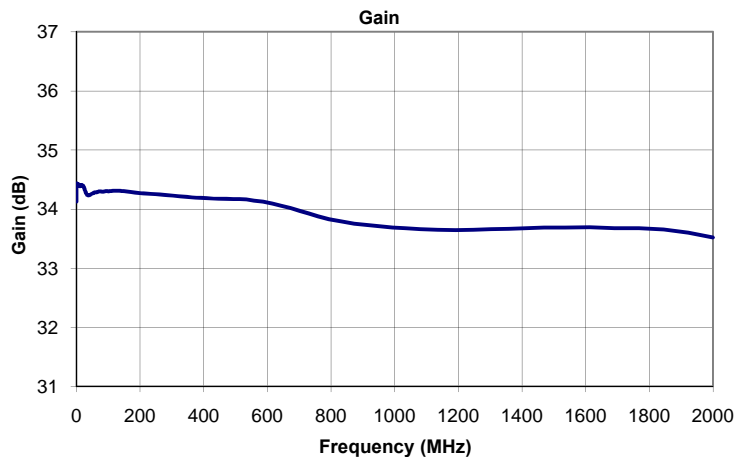
Features

- Available to 1 GHz or 2 GHz
- Excellent gain flatness
- Low VSWR
- Internally regulated to +8V
- Reverse voltage protected
- Input Limiter (1 GHz ONLY)

Parameter	Specification
Frequency Range	1-2000 MHz (AM-1598-2000)
Gain	32 dB dB Min. (34 Typ.)
Gain Flatness	± 1.25 dB Max (± 0.5 Typ.)
Input VSWR	2.0:1 (<1.3:1 Typ.)
Output VSWR	2.0:1 (<1.3:1 Typ.)
*Noise Figure (dB)	3.2, 3.8, 4.5
*Output P1dB (dBm)	+16, +17, +15
DC Voltage	+11 to +30 (Marked for +15V)
DC Current	135 mA

*Noise Figure at 10 MHz, 1000 MHz & 2000 MHz

*P1dB at 0.3 MHz, 1000 MHz & 2000 MHz



AM-1598 Series

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay
0.30	34.1	-48.7	-21.5	-19.9	43.7
0.32	34.1	-48.9	-21.5	-20.0	85.4
0.33	34.2	-48.8	-21.7	-20.0	119.8
0.35	34.2	-48.8	-21.8	-20.1	108.4
0.36	34.2	-48.8	-21.9	-20.1	108.0
0.38	34.2	-48.8	-22.1	-20.2	113.0
0.39	34.3	-48.8	-22.3	-20.2	112.6
0.41	34.3	-48.8	-22.4	-20.2	96.3
0.43	34.3	-48.8	-22.6	-20.3	82.6
0.45	34.3	-48.8	-22.7	-20.3	77.8
0.47	34.3	-48.7	-22.8	-20.3	77.5
0.49	34.3	-48.7	-23.0	-20.4	76.9
0.51	34.3	-48.7	-23.1	-20.4	75.8
0.53	34.4	-48.6	-23.2	-20.4	59.7
0.56	34.4	-48.6	-23.3	-20.4	55.6
0.58	34.4	-48.6	-23.4	-20.4	52.9
0.61	34.4	-48.6	-23.5	-20.5	58.2
0.64	34.4	-48.5	-23.6	-20.5	46.7
0.67	34.4	-48.5	-23.7	-20.5	42.5
0.70	34.4	-48.5	-23.8	-20.5	36.8
0.73	34.4	-48.5	-23.9	-20.6	31.3
0.76	34.4	-48.6	-23.9	-20.6	28.0
0.79	34.4	-48.6	-24.0	-20.6	28.5
0.83	34.4	-48.6	-24.1	-20.7	23.8
0.87	34.4	-48.6	-24.1	-20.7	25.0
0.91	34.4	-48.6	-24.2	-20.7	18.1
0.95	34.4	-48.6	-24.2	-20.8	20.1
0.99	34.4	-48.5	-24.3	-20.8	18.3
1.03	34.4	-48.5	-24.3	-20.8	17.3
1.08	34.4	-48.5	-24.4	-20.8	13.8
1.12	34.4	-48.5	-24.4	-20.9	14.0
1.18	34.4	-48.5	-24.4	-20.9	12.7
1.24	34.4	-48.5	-24.4	-20.9	12.5
1.29	34.4	-48.5	-24.5	-20.9	10.9
1.35	34.4	-48.6	-24.5	-20.9	10.7
1.41	34.4	-48.6	-24.5	-21.0	9.6
1.46	34.4	-48.6	-24.5	-21.0	7.9
1.53	34.4	-48.6	-24.4	-21.0	8.0
1.61	34.4	-48.6	-24.4	-21.0	7.8
1.69	34.4	-48.6	-24.4	-21.0	5.6
1.77	34.4	-48.6	-24.4	-21.0	6.5
1.84	34.4	-48.6	-24.4	-21.0	5.9
1.92	34.4	-48.6	-24.4	-21.0	5.5
2.00	34.4	-48.6	-24.4	-21.0	4.5
2.08	34.4	-48.6	-24.4	-21.0	3.7
2.18	34.4	-48.6	-24.4	-21.0	4.4
2.28	34.4	-48.6	-24.4	-21.0	3.5
2.39	34.4	-48.6	-24.4	-21.0	3.5
2.50	34.4	-48.6	-24.3	-21.0	4.1
2.61	34.4	-48.6	-24.4	-21.0	2.8
2.72	34.4	-48.6	-24.3	-21.0	3.2
2.83	34.4	-48.6	-24.3	-21.1	2.7
2.96	34.4	-48.6	-24.3	-21.1	3.6

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay
3.11	34.4	-48.6	-24.2	-21.1	2.9
3.27	34.4	-48.5	-24.2	-21.1	2.6
3.42	34.4	-48.5	-24.2	-21.1	2.6
3.57	34.4	-48.5	-24.1	-21.1	2.6
3.72	34.4	-48.5	-24.1	-21.1	2.1
3.88	34.4	-48.5	-24.1	-21.1	2.6
4.03	34.4	-48.5	-24.1	-21.1	2.1
4.21	34.4	-48.5	-24.0	-21.1	1.6
4.42	34.4	-48.5	-24.0	-21.1	1.4
4.63	34.4	-48.5	-24.0	-21.1	2.1
4.85	34.4	-48.5	-24.0	-21.1	1.6
5.06	34.4	-48.5	-24.0	-21.1	1.3
5.27	34.4	-48.5	-24.0	-21.1	1.6
5.48	34.4	-48.6	-23.9	-21.1	1.7
5.73	34.4	-48.5	-23.9	-21.1	1.3
6.02	34.4	-48.5	-23.9	-21.1	1.3
6.31	34.4	-48.5	-23.9	-21.1	1.3
6.60	34.4	-48.5	-23.8	-21.1	1.1
6.88	34.4	-48.5	-23.8	-21.1	0.9
7.17	34.4	-48.5	-23.8	-21.1	1.3
7.46	34.4	-48.5	-23.8	-21.1	1.1
7.80	34.4	-48.5	-23.8	-21.1	1.2
8.20	34.4	-48.5	-23.8	-21.1	1.1
8.60	34.4	-48.5	-23.8	-21.1	1.2
9.00	34.4	-48.5	-23.8	-21.1	1.2
9.41	34.4	-48.5	-23.7	-21.1	1.5
9.81	34.4	-48.5	-23.7	-21.1	1.4
10.21	34.4	-48.6	-23.7	-21.1	1.3
10.61	34.4	-48.5	-23.7	-21.1	1.2
11.09	34.4	-48.5	-23.7	-21.1	1.2
11.65	34.4	-48.5	-23.7	-21.1	1.1
12.21	34.4	-48.6	-23.7	-21.1	0.9
12.77	34.4	-48.6	-23.7	-21.1	1.0
13.32	34.4	-48.5	-23.7	-21.1	1.0
13.88	34.4	-48.6	-23.7	-21.1	0.9
14.44	34.4	-48.6	-23.7	-21.0	0.9
15.09	34.4	-48.6	-23.7	-21.0	0.9
15.87	34.4	-48.6	-23.7	-21.0	1.0
16.65	34.4	-48.6	-23.7	-21.0	0.9
17.43	34.4	-48.6	-23.6	-21.0	1.0
18.21	34.4	-48.6	-23.6	-21.0	1.0
18.98	34.4	-48.6	-23.6	-21.0	1.0
19.76	34.4	-48.6	-23.6	-21.0	1.0
20.54	34.4	-48.6	-23.6	-20.9	1.0
21.46	34.4	-48.6	-23.5	-20.9	1.1
22.55	34.4	-48.6	-23.5	-20.9	1.0
23.63	34.4	-48.6	-23.5	-20.8	1.0
24.71	34.4	-48.6	-23.5	-20.8	1.0
25.79	34.3	-48.6	-23.4	-20.7	0.9
26.87	34.3	-48.6	-23.4	-20.7	0.9
27.95	34.3	-48.6	-23.3	-20.7	0.9
29.21	34.3	-48.7	-23.2	-20.6	0.8
30.72	34.3	-48.7	-23.2	-20.6	0.7

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Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay
32.22	34.3	-48.7	-23.2	-20.6	0.7
33.73	34.2	-48.7	-23.1	-20.5	0.7
35.24	34.2	-48.7	-23.1	-20.5	0.6
36.74	34.2	-48.7	-23.0	-20.5	0.6
38.25	34.2	-48.7	-23.0	-20.5	0.6
39.75	34.2	-48.7	-22.9	-20.4	0.7
41.54	34.2	-48.7	-22.9	-20.4	0.7
43.64	34.2	-48.7	-22.9	-20.4	0.7
45.73	34.3	-48.7	-22.9	-20.4	0.7
47.82	34.3	-48.7	-22.8	-20.3	0.8
49.92	34.3	-48.7	-22.8	-20.3	0.8
52.01	34.3	-48.7	-22.8	-20.3	0.8
54.10	34.3	-48.6	-22.8	-20.3	0.8
56.54	34.3	-48.7	-22.8	-20.3	0.8
59.45	34.3	-48.7	-22.8	-20.3	0.8
62.37	34.3	-48.6	-22.9	-20.3	0.8
65.28	34.3	-48.7	-22.8	-20.3	0.9
68.20	34.3	-48.7	-22.8	-20.3	0.9
71.12	34.3	-48.7	-22.9	-20.3	0.8
74.03	34.3	-48.7	-22.9	-20.3	0.9
76.95	34.3	-48.7	-22.9	-20.4	0.9
80.41	34.3	-48.7	-23.0	-20.4	0.8
84.46	34.3	-48.7	-23.0	-20.5	0.9
88.51	34.3	-48.7	-23.1	-20.6	0.9
92.56	34.3	-48.7	-23.1	-20.6	0.9
96.61	34.3	-48.7	-23.2	-20.7	0.8
100.67	34.3	-48.7	-23.3	-20.8	0.8
104.72	34.3	-48.7	-23.3	-20.9	0.8
109.43	34.3	-48.7	-23.4	-20.9	0.8
114.94	34.3	-48.7	-23.5	-21.0	0.8
120.46	34.3	-48.7	-23.5	-21.1	0.8
125.97	34.3	-48.7	-23.6	-21.1	0.8
131.49	34.3	-48.7	-23.6	-21.2	0.8
137.00	34.3	-48.7	-23.6	-21.2	0.8
142.51	34.3	-48.7	-23.6	-21.2	0.8
148.93	34.3	-48.7	-23.5	-21.2	0.8
156.61	34.3	-48.7	-23.4	-21.2	0.8
164.29	34.3	-48.7	-23.4	-21.2	0.8
171.97	34.3	-48.8	-23.3	-21.2	0.9
179.64	34.3	-48.8	-23.2	-21.3	0.8
187.32	34.3	-48.8	-23.2	-21.3	0.8
195.00	34.3	-48.8	-23.1	-21.4	0.8
202.68	34.3	-48.8	-23.2	-21.6	0.8
211.80	34.3	-48.8	-23.3	-21.7	0.8
222.48	34.3	-48.8	-23.3	-21.9	0.8
233.15	34.3	-48.8	-23.5	-22.1	0.8
243.82	34.3	-48.8	-23.6	-22.3	0.8
254.49	34.3	-48.8	-23.7	-22.5	0.8
265.16	34.2	-48.9	-23.7	-22.6	0.8
275.84	34.2	-48.9	-23.8	-22.9	0.8
288.25	34.2	-48.9	-23.8	-23.1	0.8
303.11	34.2	-48.9	-23.9	-23.4	0.8
317.98	34.2	-48.9	-24.0	-23.6	0.8

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay
332.84	34.2	-48.9	-24.1	-23.9	0.8
347.70	34.2	-48.9	-24.3	-24.3	0.8
362.56	34.2	-49.0	-24.4	-24.6	0.8
377.43	34.2	-48.9	-24.6	-25.0	0.8
392.29	34.2	-48.9	-24.8	-25.5	0.8
409.95	34.2	-48.9	-25.1	-26.1	0.8
430.60	34.2	-48.9	-25.5	-26.8	0.8
451.26	34.2	-48.9	-26.0	-27.3	0.8
471.91	34.2	-48.9	-26.4	-27.9	0.8
492.57	34.2	-48.8	-26.7	-28.7	0.8
513.22	34.2	-48.7	-26.8	-29.6	0.8
533.88	34.2	-48.6	-26.8	-30.3	0.8
557.91	34.1	-48.6	-26.6	-30.7	0.8
586.68	34.1	-48.5	-26.2	-30.9	0.8
615.44	34.1	-48.4	-25.5	-30.8	0.8
644.21	34.1	-48.4	-24.7	-30.5	0.8
672.98	34.0	-48.4	-23.7	-30.0	0.8
701.74	34.0	-48.4	-22.6	-29.3	0.8
730.51	33.9	-48.4	-21.6	-28.2	0.8
759.28	33.9	-48.5	-20.7	-26.8	0.8
793.45	33.8	-48.6	-19.9	-25.5	0.8
833.43	33.8	-48.6	-19.3	-24.3	0.8
873.41	33.8	-48.7	-18.8	-23.1	0.8
913.39	33.7	-48.9	-18.6	-22.1	0.8
953.37	33.7	-49.0	-18.4	-21.1	0.8
993.35	33.7	-49.1	-18.4	-20.3	0.8
1033.32	33.7	-49.2	-18.4	-19.6	0.8
1079.83	33.7	-49.2	-18.6	-19.0	0.8
1135.51	33.7	-49.3	-18.9	-18.6	0.8
1191.19	33.6	-49.3	-19.3	-18.2	0.8
1246.87	33.7	-49.3	-19.7	-18.0	0.8
1302.55	33.7	-49.3	-20.3	-17.9	0.8
1358.22	33.7	-49.3	-20.8	-17.8	0.8
1413.90	33.7	-49.2	-21.3	-17.9	0.8
1469.58	33.7	-49.2	-21.7	-18.1	0.8
1535.72	33.7	-49.1	-22.1	-18.4	0.8
1613.10	33.7	-49.1	-22.3	-18.8	0.8
1690.48	33.7	-49.0	-22.4	-19.3	0.8
1767.86	33.7	-49.0	-22.7	-19.8	0.9
1845.24	33.7	-48.9	-22.6	-20.4	0.9
1922.62	33.6	-48.9	-22.2	-21.1	0.9
2000.00	33.5	-48.8	-21.6	-21.9	0.9