

# AM-1666 Series

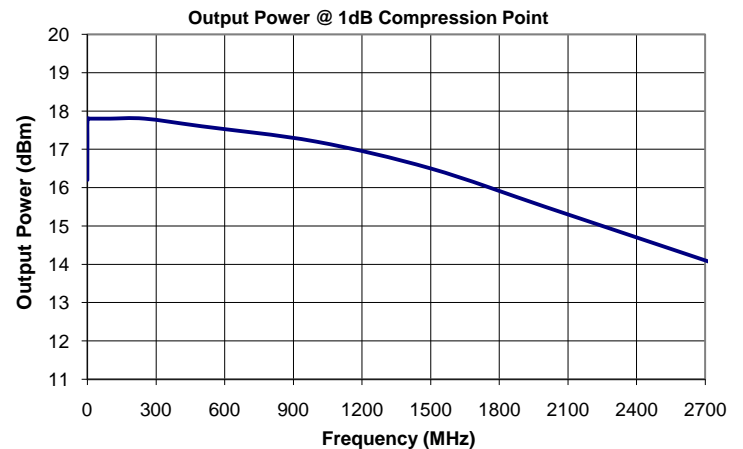
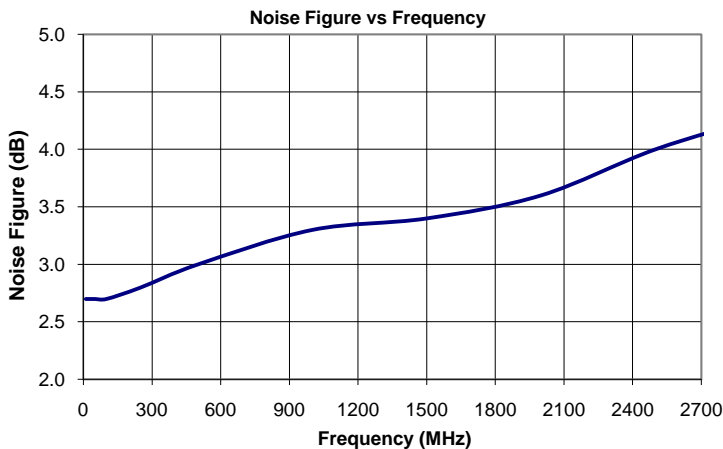
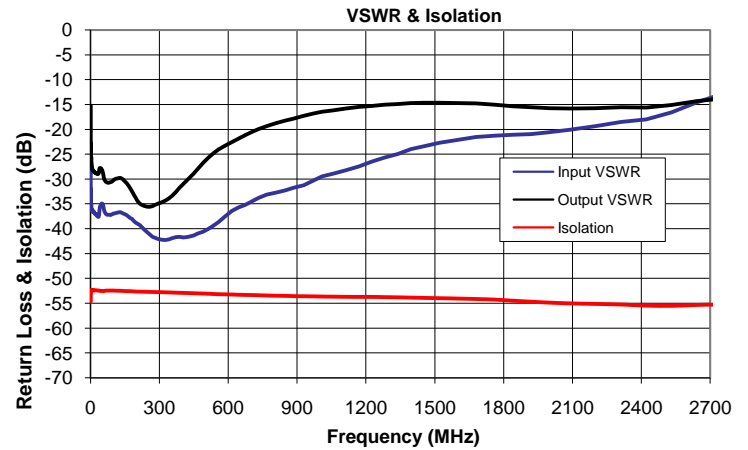
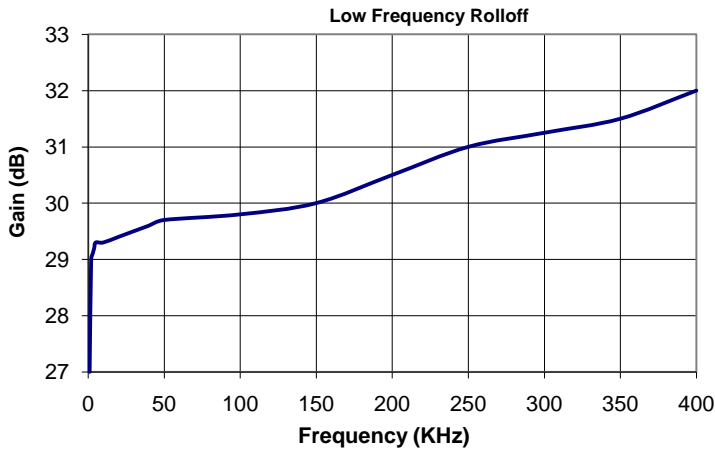
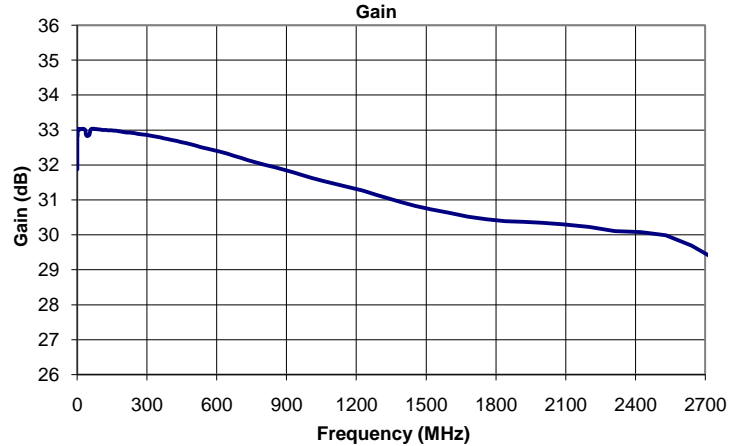
## Features

- 3-Year Warranty
- Very Broadband
- Medium Power
- Internally regulated to +12V
- Reverse voltage protected
- Low VSWR

Parameter	Specification
Frequency Range	+17, +16, +14
Gain	30 dB Min, 32 dB Typ.
Gain Flatness	± 1.75 dB Over Entire Band
Input VSWR	2.0:1 Max, <1.5:1 Typ.
Output VSWR	2.0:1 Max, <1.5:1 Typ.
*Noise Figure (dB)	3.0, 3.5, 4.2
*Output P1dB	+17, +16, +14
DC Voltage	+15 to +30 (Marked for +15V)
DC Current	125 mA

\*Noise Figure at 10 MHz, 1250 MHz & 2500 MHz

\*P1dB at 0.01 MHz, 1250 MHz & 2500 MHz



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Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay (Ns)
0.30	31.9	-54.7	-27.5	-15.2	6.5
0.32	32.0	-54.4	-27.8	-15.6	13.7
0.33	32.0	-54.4	-28.0	-15.9	26.1
0.35	32.1	-54.3	-28.1	-16.2	17.6
0.36	32.1	-54.2	-28.3	-16.5	15.6
0.38	32.2	-54.1	-28.4	-16.8	14.3
0.39	32.2	-54.0	-28.5	-17.1	17.8
0.41	32.3	-54.0	-28.7	-17.4	20.0
0.43	32.3	-53.9	-28.8	-17.7	18.6
0.46	32.4	-53.8	-28.9	-18.0	8.3
0.48	32.4	-53.8	-29.1	-18.3	15.1
0.50	32.4	-53.7	-29.2	-18.6	16.8
0.52	32.5	-53.6	-29.4	-18.9	17.4
0.54	32.5	-53.5	-29.6	-19.3	17.2
0.57	32.5	-53.5	-29.8	-19.6	20.1
0.60	32.6	-53.4	-29.9	-19.9	17.4
0.63	32.6	-53.3	-30.1	-20.2	13.2
0.66	32.6	-53.3	-30.2	-20.5	14.8
0.69	32.7	-53.2	-30.4	-20.7	17.9
0.72	32.7	-53.2	-30.5	-21.0	14.8
0.75	32.7	-53.1	-30.7	-21.2	13.5
0.78	32.7	-53.1	-30.8	-21.4	13.2
0.82	32.8	-53.1	-30.9	-21.6	13.3
0.86	32.8	-53.0	-31.1	-21.9	12.1
0.90	32.8	-53.0	-31.3	-22.1	11.9
0.95	32.8	-53.0	-31.5	-22.2	10.6
0.99	32.8	-52.9	-31.6	-22.4	11.0
1.03	32.8	-52.9	-31.8	-22.7	10.7
1.08	32.9	-52.8	-32.0	-22.9	9.4
1.13	32.9	-52.8	-32.2	-23.1	8.1
1.19	32.9	-52.8	-32.4	-23.2	9.0
1.24	32.9	-52.7	-32.5	-23.4	7.2
1.30	32.9	-52.7	-32.7	-23.6	7.0
1.36	32.9	-52.7	-32.9	-23.7	6.2
1.42	32.9	-52.7	-33.1	-23.9	7.3
1.48	32.9	-52.6	-33.3	-24.1	5.0
1.55	32.9	-52.6	-33.5	-24.2	4.9
1.63	33.0	-52.6	-33.6	-24.4	4.7
1.71	33.0	-52.6	-33.8	-24.5	5.4
1.79	33.0	-52.6	-33.9	-24.7	3.8
1.88	33.0	-52.6	-34.1	-24.8	4.4
1.96	33.0	-52.6	-34.2	-25.0	3.9
2.04	33.0	-52.5	-34.4	-25.1	3.5
2.13	33.0	-52.5	-34.6	-25.3	3.1
2.24	33.0	-52.5	-34.7	-25.4	3.1
2.36	33.0	-52.5	-34.8	-25.5	3.0
2.47	33.0	-52.5	-34.9	-25.7	2.7
2.58	33.0	-52.5	-35.1	-25.8	2.4
2.69	33.0	-52.5	-35.2	-25.9	2.2
2.80	33.0	-52.4	-35.4	-26.1	2.1
2.94	33.0	-52.4	-35.4	-26.2	2.4
3.09	33.0	-52.4	-35.6	-26.3	1.8
3.24	33.0	-52.4	-35.6	-26.4	2.2

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay (Ns)
3.40	33.0	-52.4	-35.7	-26.5	2.1
3.55	33.0	-52.4	-35.8	-26.7	1.7
3.71	33.0	-52.4	-36.0	-26.8	1.7
3.86	33.0	-52.4	-36.1	-26.9	1.7
4.04	33.0	-52.4	-36.1	-27.0	1.5
4.26	33.0	-52.4	-36.1	-27.1	1.7
4.47	33.0	-52.4	-36.1	-27.2	1.4
4.69	33.0	-52.4	-36.1	-27.3	1.2
4.91	33.0	-52.3	-36.2	-27.4	1.1
5.13	33.0	-52.4	-36.2	-27.5	1.4
5.34	33.0	-52.3	-36.1	-27.5	1.2
5.56	33.0	-52.3	-36.1	-27.6	1.0
5.82	33.0	-52.3	-36.2	-27.7	1.0
6.12	33.0	-52.3	-36.2	-27.8	1.0
6.43	33.0	-52.3	-36.2	-27.8	1.0
6.73	33.0	-52.3	-36.4	-27.9	1.0
7.04	33.0	-52.3	-36.4	-28.0	1.1
7.35	33.0	-52.3	-36.5	-28.0	1.0
7.65	33.0	-52.3	-36.5	-28.1	0.9
8.01	33.0	-52.3	-36.5	-28.1	1.0
8.43	33.0	-52.3	-36.5	-28.2	1.1
8.85	33.0	-52.3	-36.4	-28.2	1.1
9.27	33.0	-52.3	-36.4	-28.2	1.2
9.69	33.0	-52.3	-36.4	-28.3	1.2
10.1	33.0	-52.4	-36.4	-28.3	1.0
10.5	33.0	-52.4	-36.3	-28.3	1.0
11.0	33.0	-52.4	-36.3	-28.4	0.9
11.6	33.0	-52.4	-36.4	-28.4	1.1
12.2	33.0	-52.4	-36.4	-28.4	1.0
12.8	33.0	-52.4	-36.5	-28.4	0.8
13.3	33.0	-52.4	-36.5	-28.5	0.7
13.9	33.0	-52.4	-36.6	-28.5	0.7
14.5	33.0	-52.4	-36.6	-28.5	0.7
15.2	33.0	-52.4	-36.8	-28.6	0.8
16.0	33.0	-52.4	-36.8	-28.6	0.7
16.8	33.0	-52.4	-36.8	-28.6	0.8
17.6	33.0	-52.4	-36.9	-28.6	0.9
18.3	33.0	-52.4	-36.9	-28.7	0.7
19.1	33.0	-52.4	-37.0	-28.7	0.8
19.9	33.0	-52.4	-37.1	-28.7	0.8
20.9	33.0	-52.4	-37.1	-28.8	0.8
22.0	33.0	-52.4	-37.1	-28.8	0.7
23.1	33.0	-52.4	-37.0	-28.8	0.8
24.2	33.0	-52.4	-37.1	-28.8	0.9
25.4	33.0	-52.4	-37.1	-28.9	0.8
26.5	33.0	-52.4	-37.2	-28.9	0.7
27.6	33.0	-52.4	-37.4	-28.9	0.8
28.7	33.0	-52.4	-37.4	-29.0	0.8
30.1	33.0	-52.4	-37.4	-29.0	0.9
31.6	33.0	-52.4	-37.5	-29.0	0.8
33.2	33.0	-52.4	-37.6	-28.9	0.9
34.8	33.0	-52.4	-37.5	-28.8	1.0
36.4	33.0	-52.4	-37.1	-28.5	1.0

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Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay (Ns)
38.0	32.9	-52.4	-36.4	-27.9	0.5
39.5	32.8	-52.5	-35.8	-27.8	0.3
41.4	32.8	-52.5	-35.5	-27.7	0.3
43.5	32.8	-52.5	-35.3	-27.8	0.4
45.7	32.8	-52.5	-35.1	-27.9	0.4
47.9	32.8	-52.5	-34.9	-28.0	0.5
50.1	32.9	-52.5	-34.9	-28.2	0.4
52.2	32.9	-52.5	-34.9	-28.5	0.3
54.4	32.9	-52.5	-35.3	-29.0	0.3
56.9	33.0	-52.5	-36.1	-29.8	0.7
59.9	33.0	-52.5	-36.5	-30.1	1.0
62.9	33.0	-52.5	-36.8	-30.4	0.9
65.9	33.0	-52.4	-36.9	-30.5	0.8
68.9	33.0	-52.4	-37.1	-30.6	0.8
71.9	33.0	-52.4	-37.1	-30.7	0.8
74.9	33.0	-52.4	-37.1	-30.7	0.7
78.4	33.0	-52.4	-37.2	-30.7	0.7
82.5	33.0	-52.4	-37.2	-30.7	0.7
86.6	33.0	-52.4	-37.2	-30.6	0.7
90.7	33.0	-52.4	-37.1	-30.5	0.7
94.8	33.0	-52.4	-37.0	-30.4	0.7
98.9	33.0	-52.4	-36.9	-30.2	0.7
103.0	33.0	-52.4	-36.9	-30.1	0.7
107.8	33.0	-52.4	-36.8	-30.0	0.7
113.5	33.0	-52.5	-36.8	-29.9	0.7
119.2	33.0	-52.5	-36.7	-29.8	0.7
124.8	33.0	-52.5	-36.7	-29.8	0.7
130.5	33.0	-52.5	-36.6	-29.8	0.7
136.1	33.0	-52.5	-36.8	-29.9	0.7
141.8	33.0	-52.5	-36.9	-30.1	0.7
148.4	33.0	-52.5	-37.0	-30.4	0.7
156.4	33.0	-52.5	-37.2	-30.8	0.7
164.4	33.0	-52.5	-37.5	-31.3	0.7
172.3	33.0	-52.5	-37.8	-31.9	0.7
180.3	33.0	-52.6	-38.0	-32.5	0.7
188.3	33.0	-52.6	-38.4	-33.2	0.7
196.3	33.0	-52.6	-38.8	-33.8	0.7
204.2	32.9	-52.6	-38.9	-34.4	0.7
213.8	32.9	-52.6	-39.2	-34.9	0.7
225.0	32.9	-52.7	-39.7	-35.2	0.7
236.2	32.9	-52.7	-40.3	-35.5	0.7
247.4	32.9	-52.7	-40.7	-35.6	0.7
258.6	32.9	-52.7	-41.2	-35.6	0.7
269.8	32.9	-52.7	-41.6	-35.4	0.7
281.1	32.9	-52.7	-41.8	-35.2	0.7
294.2	32.9	-52.7	-42.0	-34.9	0.7
309.6	32.8	-52.7	-42.2	-34.7	0.7
325.0	32.8	-52.8	-42.2	-34.3	0.7
340.5	32.8	-52.8	-42.1	-33.9	0.7
355.9	32.8	-52.8	-41.9	-33.3	0.7
371.4	32.8	-52.8	-41.6	-32.6	0.7
386.8	32.7	-52.9	-41.6	-31.8	0.7
404.8	32.7	-52.9	-41.7	-30.9	0.7

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay (Ns)
426.1	32.7	-52.9	-41.6	-30.0	0.7
447.3	32.7	-53.0	-41.3	-29.0	0.7
468.6	32.6	-53.0	-40.9	-27.9	0.7
489.8	32.6	-53.0	-40.5	-26.8	0.7
511.1	32.6	-53.1	-40.1	-25.8	0.7
532.3	32.5	-53.1	-39.4	-24.9	0.7
557.1	32.5	-53.2	-38.6	-24.1	0.7
586.4	32.4	-53.2	-37.5	-23.3	0.7
615.6	32.4	-53.2	-36.4	-22.5	0.7
644.8	32.3	-53.3	-35.7	-21.8	0.7
674.1	32.3	-53.3	-35.1	-21.2	0.7
703.3	32.2	-53.3	-34.5	-20.5	0.7
732.5	32.1	-53.4	-33.7	-19.9	0.7
766.7	32.1	-53.4	-33.1	-19.3	0.7
807.0	32.0	-53.5	-32.7	-18.8	0.7
847.2	31.9	-53.5	-32.3	-18.2	0.7
887.4	31.9	-53.5	-31.7	-17.8	0.7
927.7	31.8	-53.6	-31.3	-17.3	0.7
967.9	31.7	-53.6	-30.4	-16.8	0.7
1008.1	31.6	-53.6	-29.5	-16.5	0.6
1055.2	31.5	-53.7	-28.9	-16.2	0.7
1111.9	31.5	-53.7	-28.2	-15.8	0.7
1168.6	31.4	-53.7	-27.4	-15.5	0.7
1225.3	31.3	-53.7	-26.5	-15.2	0.6
1282.0	31.2	-53.7	-25.6	-15.0	0.6
1338.7	31.0	-53.8	-25.0	-14.9	0.6
1395.4	30.9	-53.8	-24.0	-14.7	0.6
1452.1	30.8	-53.9	-23.4	-14.7	0.6
1519.9	30.7	-54.0	-22.7	-14.6	0.6
1599.6	30.6	-54.0	-22.1	-14.7	0.6
1679.4	30.5	-54.1	-21.5	-14.8	0.6
1759.1	30.4	-54.2	-21.3	-15.0	0.6
1838.9	30.4	-54.5	-21.1	-15.3	0.6
1918.6	30.4	-54.7	-20.9	-15.5	0.6
1998.4	30.3	-54.9	-20.6	-15.7	0.7
2091.7	30.3	-55.0	-20.0	-15.8	0.7
2201.4	30.2	-55.1	-19.3	-15.7	0.7
2311.2	30.1	-55.2	-18.5	-15.5	0.7
2420.9	30.1	-55.5	-18.0	-15.6	0.7
2530.7	30.0	-55.5	-16.6	-15.1	0.7
2640.4	29.7	-55.3	-14.6	-14.3	0.7
2750.2	29.3	-55.2	-12.9	-13.8	0.7