

AM-1616-Series

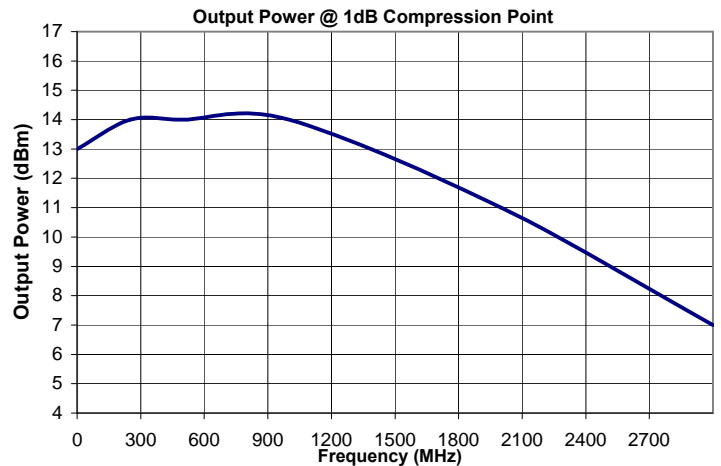
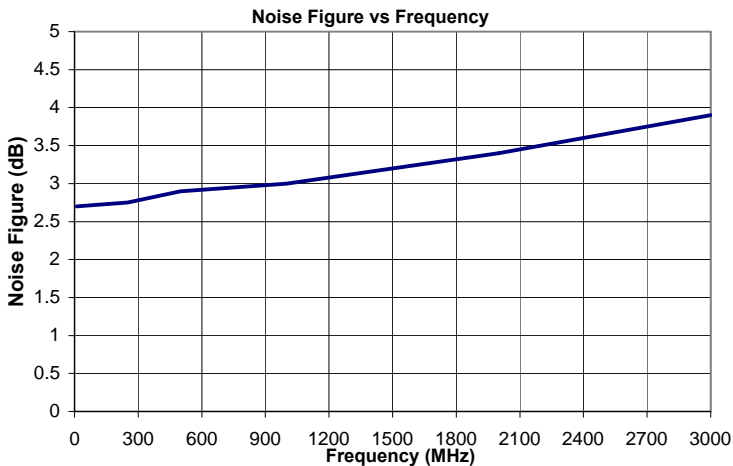
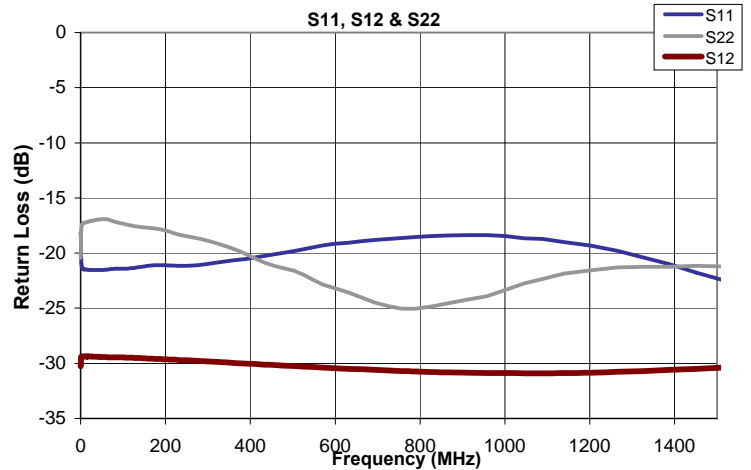
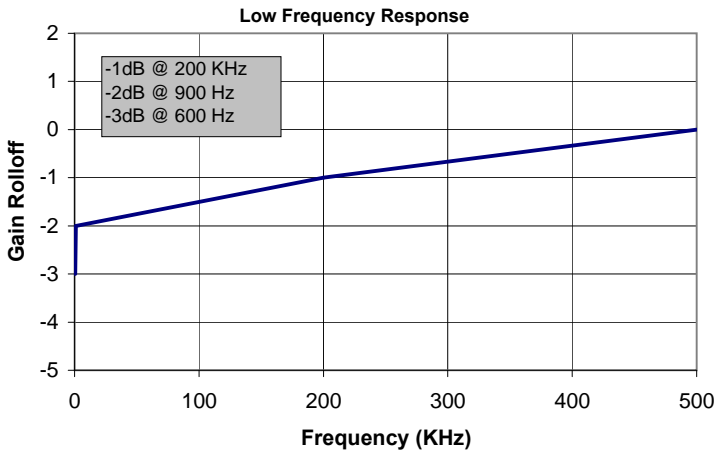
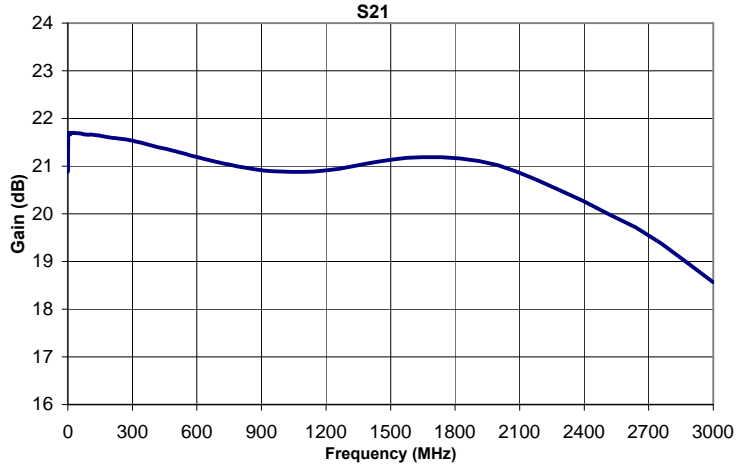
Features

- Ultra wideband
- Low VSWR
- Gain is -3dB at 600 Hz Typ.
- Internally regulated to +12V
- Reverse voltage protected
- Input Limiter Protected

Parameter	Specification
Frequency Range (MHz)	0.01-3000 MHz Min.
Gain (dB)	20 dB Min, (21 dB Typ.)
Gain Flatness (\pm dB)	\pm 2.0 dB Max. (\pm 1.8 dB Typ.)
Input VSWR (dBRL)	2.0:1 Max. (<1.5:1 Typ.)
Output VSWR (dBRL)	2.0:1 Max. (<1.5:1 Typ.)
*Noise Figure (dB)	3.2, 3.5, 4.3
*Output P1dB (dBm)	+14, +11, +7
DC Voltage	+15 to +30
DC Current (mA)	60

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

*P1dB at 100 KHz, 1500 MHz & 3000 MHz



AM-1616-Series

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)
0.3	20.9	-30	-18.1	-20.4
0.3	20.9	-30	-18.2	-20.4
0.3	20.9	-30	-18.2	-20.3
0.3	21.0	-30	-18.3	-20.2
0.4	21.0	-30	-18.4	-20.1
0.4	21.0	-30	-18.4	-20.0
0.4	21.1	-30	-18.5	-19.9
0.4	21.1	-30	-18.6	-19.8
0.4	21.1	-30	-18.7	-19.7
0.5	21.1	-30	-18.7	-19.6
0.5	21.2	-30	-18.8	-19.5
0.5	21.2	-30	-18.9	-19.4
0.5	21.2	-30	-19.0	-19.3
0.5	21.2	-30	-19.1	-19.2
0.6	21.3	-30	-19.2	-19.2
0.6	21.3	-30	-19.2	-19.1
0.6	21.3	-30	-19.3	-19.0
0.7	21.3	-30	-19.4	-18.9
0.7	21.4	-30	-19.5	-18.8
0.7	21.4	-30	-19.6	-18.8
0.8	21.4	-30	-19.7	-18.7
0.8	21.4	-30	-19.8	-18.6
0.8	21.4	-30	-19.8	-18.5
0.9	21.5	-30	-19.9	-18.5
0.9	21.5	-30	-20.0	-18.4
1.0	21.5	-30	-20.1	-18.4
1.0	21.5	-30	-20.2	-18.3
1.0	21.5	-30	-20.2	-18.2
1.1	21.5	-30	-20.3	-18.2
1.1	21.6	-30	-20.4	-18.1
1.2	21.6	-30	-20.4	-18.1
1.3	21.6	-30	-20.5	-18.0
1.3	21.6	-29	-20.6	-18.0
1.4	21.6	-29	-20.6	-18.0
1.4	21.6	-29	-20.7	-17.9
1.5	21.6	-29	-20.7	-17.9
1.6	21.6	-29	-20.8	-17.8
1.7	21.6	-29	-20.8	-17.8
1.7	21.6	-29	-20.9	-17.8
1.8	21.6	-29	-20.9	-17.7
1.9	21.7	-29	-21.0	-17.7
2.0	21.7	-29	-21.0	-17.7
2.1	21.7	-29	-21.1	-17.6
2.2	21.7	-29	-21.1	-17.6
2.3	21.7	-29	-21.1	-17.6
2.4	21.7	-29	-21.2	-17.6
2.5	21.7	-29	-21.2	-17.5
2.6	21.7	-29	-21.2	-17.5
2.7	21.7	-29	-21.2	-17.5

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)
0.3	20.9	-30	-18.1	-20.4
2.9	21.7	-29	-21.3	-17.5
3.0	21.7	-29	-21.3	-17.5
3.2	21.7	-29	-21.3	-17.4
3.3	21.7	-29	-21.3	-17.4
3.5	21.7	-29	-21.3	-17.4
3.6	21.7	-29	-21.4	-17.4
3.8	21.7	-29	-21.4	-17.4
4.0	21.7	-29	-21.4	-17.4
4.1	21.7	-29	-21.4	-17.4
4.4	21.7	-29	-21.4	-17.4
4.6	21.7	-29	-21.4	-17.3
4.8	21.7	-29	-21.4	-17.3
5.0	21.7	-29	-21.4	-17.3
5.3	21.7	-29	-21.4	-17.3
5.5	21.7	-29	-21.4	-17.3
5.7	21.7	-29	-21.5	-17.3
6.0	21.7	-29	-21.5	-17.3
6.3	21.7	-29	-21.5	-17.3
6.6	21.7	-29	-21.5	-17.3
6.9	21.7	-29	-21.5	-17.3
7.3	21.7	-29	-21.5	-17.3
7.6	21.7	-29	-21.5	-17.3
7.9	21.7	-29	-21.5	-17.2
8.3	21.7	-29	-21.5	-17.2
8.7	21.7	-29	-21.5	-17.2
9.1	21.7	-29	-21.5	-17.2
9.6	21.7	-29	-21.5	-17.2
10.0	21.7	-29	-21.5	-17.3
10.5	21.7	-29	-21.5	-17.3
10.9	21.7	-29	-21.5	-17.2
11.4	21.7	-29	-21.5	-17.2
12.0	21.7	-29	-21.5	-17.2
12.6	21.7	-29	-21.5	-17.2
13.2	21.7	-29	-21.5	-17.2
13.8	21.7	-29	-21.5	-17.2
14.4	21.7	-29	-21.5	-17.2
15.0	21.7	-29	-21.5	-17.2
15.7	21.7	-29	-21.5	-17.2
16.6	21.7	-29	-21.5	-17.2
17.4	21.7	-29	-21.5	-17.2
18.2	21.7	-29	-21.5	-17.2
19.1	21.7	-29	-21.5	-17.1
19.9	21.7	-29	-21.5	-17.1
20.8	21.7	-29	-21.5	-17.1
21.7	21.7	-29	-21.5	-17.1
22.9	21.7	-29	-21.5	-17.1
24.1	21.7	-29	-21.5	-17.1
25.3	21.7	-29	-21.5	-17.1

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)
0.3	20.9	-30	-18.1	-20.4
26.5	21.7	-29	-21.5	-17.1
27.6	21.7	-29	-21.5	-17.1
28.8	21.7	-29	-21.5	-17.1
30.0	21.7	-29	-21.5	-17.0
31.4	21.7	-29	-21.5	-17.0
33.1	21.7	-29	-21.5	-17.0
34.7	21.7	-29	-21.5	-17.0
36.4	21.7	-29	-21.5	-17.0
38.1	21.7	-29	-21.5	-17.0
39.7	21.7	-29	-21.5	-17.0
41.4	21.7	-29	-21.5	-17.0
43.4	21.7	-29	-21.5	-16.9
45.7	21.7	-29	-21.5	-16.9
48.0	21.7	-29	-21.5	-16.9
50.3	21.7	-29	-21.5	-16.9
52.6	21.7	-29	-21.5	-16.9
54.9	21.7	-29	-21.5	-16.9
57.2	21.7	-29	-21.5	-16.9
59.9	21.7	-29	-21.5	-16.9
63.0	21.7	-29	-21.5	-16.9
66.2	21.7	-29	-21.5	-17.0
69.4	21.7	-29	-21.5	-17.0
72.6	21.7	-29	-21.4	-17.1
75.7	21.7	-29	-21.4	-17.1
78.9	21.7	-29	-21.4	-17.1
82.6	21.7	-29	-21.4	-17.2
87.0	21.7	-29	-21.4	-17.2
91.4	21.7	-29	-21.4	-17.3
95.8	21.7	-29	-21.4	-17.3
100.2	21.7	-29	-21.4	-17.3
104.5	21.7	-29	-21.4	-17.4
108.9	21.7	-29	-21.4	-17.4
114.1	21.7	-29	-21.4	-17.5
120.1	21.7	-29	-21.4	-17.5
126.2	21.7	-30	-21.3	-17.6
132.2	21.7	-30	-21.3	-17.6
138.3	21.6	-30	-21.3	-17.6
144.3	21.6	-30	-21.2	-17.7
150.4	21.6	-30	-21.2	-17.7
157.4	21.6	-30	-21.2	-17.7
166.0	21.6	-30	-21.1	-17.7
174.6	21.6	-30	-21.1	-17.8
183.1	21.6	-30	-21.1	-17.8
191.7	21.6	-30	-21.1	-17.9
200.2	21.6	-30	-21.1	-18.0
208.8	21.6	-30	-21.1	-18.1
217.3	21.6	-30	-21.1	-18.2
227.6	21.6	-30	-21.2	-18.3

AM-1616-3000

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)
0.3	20.9	-30	-18.1	-20.4
239.6	21.6	-30	-21.2	-18.4
251.7	21.6	-30	-21.2	-18.5
263.8	21.6	-30	-21.1	-18.6
275.9	21.6	-30	-21.1	-18.7
287.9	21.5	-30	-21.0	-18.8
300.0	21.5	-30	-21.0	-18.9
314.1	21.5	-30	-20.9	-19.0
330.8	21.5	-30	-20.8	-19.2
347.5	21.5	-30	-20.7	-19.4
364.1	21.5	-30	-20.6	-19.7
380.8	21.4	-30	-20.6	-19.9
397.5	21.4	-30	-20.5	-20.2
414.1	21.4	-30	-20.4	-20.5
433.6	21.4	-30	-20.2	-20.9
456.6	21.4	-30	-20.1	-21.2
479.6	21.3	-30	-20.0	-21.4
502.6	21.3	-30	-19.8	-21.6
525.6	21.3	-30	-19.7	-22.0
548.6	21.3	-30	-19.5	-22.4

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)
0.3	20.9	-30	-18.1	-20.4
571.6	21.2	-30	-19.3	-22.9
598.6	21.2	-30	-19.2	-23.2
630.3	21.2	-30	-19.1	-23.6
662.1	21.1	-31	-18.9	-24.0
693.8	21.1	-31	-18.8	-24.5
725.6	21.1	-31	-18.7	-24.8
757.3	21.0	-31	-18.6	-25.0
789.1	21.0	-31	-18.5	-25.1
826.3	21.0	-31	-18.5	-24.8
870.1	20.9	-31	-18.4	-24.5
913.9	20.9	-31	-18.4	-24.2
957.8	20.9	-31	-18.4	-23.9
1001.6	20.9	-31	-18.5	-23.3
1045.4	20.9	-31	-18.6	-22.8
1089.2	20.9	-31	-18.7	-22.3
1140.6	20.9	-31	-19.0	-21.9
1202.5	20.9	-31	-19.3	-21.6
1264.5	20.9	-31	-19.8	-21.3
1326.5	21.0	-31	-20.4	-21.2

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)
0.3	20.9	-30	-18.1	-20.4
1388.5	21.1	-31	-21.0	-21.2
1450.5	21.1	-30	-21.8	-21.1
1512.4	21.1	-30	-22.4	-21.2
1574.4	21.2	-30	-23.4	-21.1
1648.6	21.2	-30	-24.2	-21.0
1736.1	21.2	-30	-25.2	-20.9
1823.5	21.2	-30	-26.5	-20.5
1911.0	21.1	-30	-27.6	-20.1
1998.4	21.0	-30	-27.9	-19.4
2085.9	20.9	-30	-27.7	-18.6
2173.3	20.7	-29	-27.1	-17.7
2275.7	20.5	-29	-26.3	-16.7
2396.4	20.3	-29	-25.0	-15.8
2517.2	20.0	-29	-24.0	-14.9
2637.9	19.7	-29	-21.8	-14.0
2758.6	19.4	-29	-18.8	-13.0
2879.3	19.0	-29	-17.1	-12.3