AM-1622 Series

Features

3-Year Warranty

<300 KHz to >2.5 GHz Frequency Response

Internally regulated to +5V

Reverse voltage protected

Typical Data
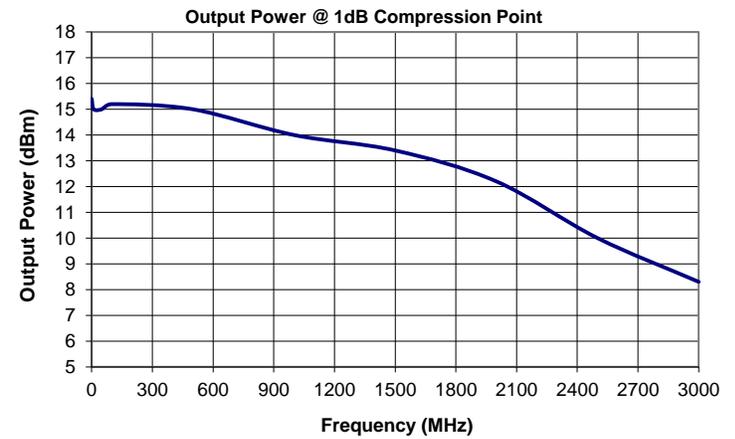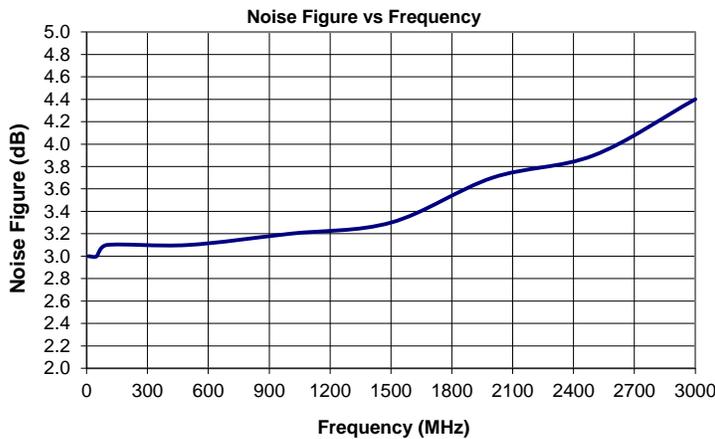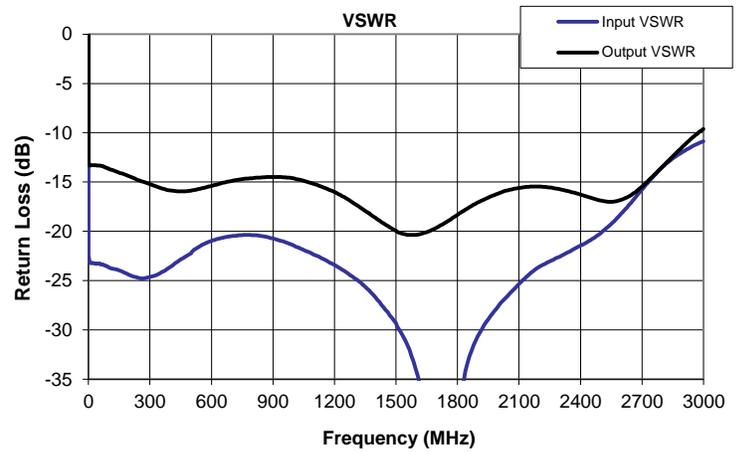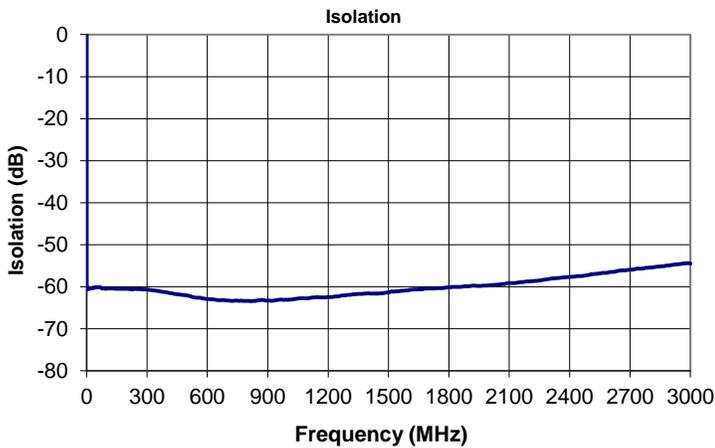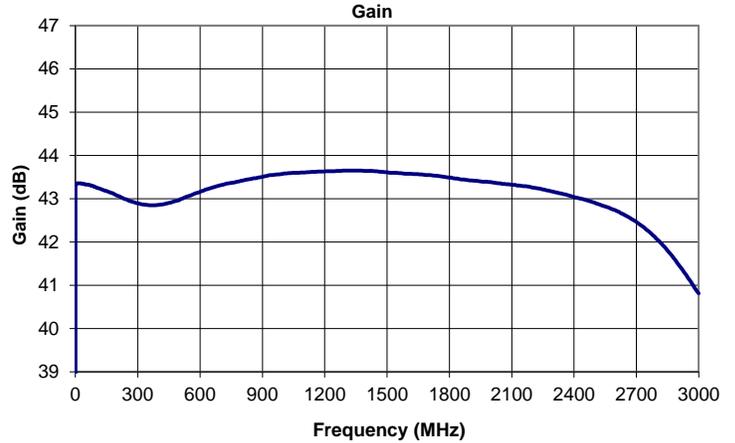
Gain

Isolation

VSWR

Input VSWR
Output VSWR

Noise Figure vs Frequency

Output Power @ 1dB Compression Point

6/13/2011

AM-1622 Series

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay Ns	Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay Ns
0.30	42.8	-59.8	-19.1	-9.8	137.8	38.0	43.3	-60.2	-23.3	-13.3	0.9
0.34	42.9	-60.7	-19.7	-10.2	142.3	40.0	43.3	-60.2	-23.3	-13.3	0.9
0.37	42.9	-60.6	-20.1	-10.6	123.6	42.0	43.3	-60.1	-23.3	-13.3	0.9
0.41	43.0	-60.5	-20.4	-10.9	114.9	44.0	43.3	-60.1	-23.3	-13.3	0.9
0.45	43.0	-60.6	-20.7	-11.2	99.3	46.0	43.3	-60.1	-23.3	-13.3	0.9
0.48	43.1	-60.5	-20.9	-11.4	91.2	48.0	43.3	-60.1	-23.3	-13.3	0.9
0.52	43.1	-60.4	-21.0	-11.5	81.2	50.0	43.3	-60.1	-23.3	-13.3	0.9
0.56	43.1	-60.4	-21.2	-11.7	75.1	52.0	43.3	-60.1	-23.3	-13.3	0.9
0.59	43.1	-60.4	-21.4	-11.9	66.8	54.5	43.3	-60.1	-23.3	-13.3	0.9
0.63	43.2	-60.3	-21.6	-12.0	60.2	57.1	43.3	-60.1	-23.3	-13.3	0.9
0.67	43.2	-60.2	-21.7	-12.2	50.3	59.6	43.3	-60.1	-23.3	-13.3	0.9
0.71	43.2	-60.2	-21.8	-12.3	45.0	62.1	43.3	-60.1	-23.3	-13.4	0.9
0.74	43.2	-60.1	-21.9	-12.4	40.8	64.6	43.3	-60.1	-23.3	-13.4	0.9
0.78	43.2	-60.1	-22.1	-12.5	34.6	67.2	43.3	-60.2	-23.4	-13.4	0.9
0.82	43.2	-60.1	-22.2	-12.6	30.0	69.7	43.3	-60.2	-23.4	-13.4	0.9
0.85	43.3	-60.1	-22.2	-12.7	27.3	72.2	43.3	-60.2	-23.4	-13.4	0.9
0.89	43.3	-60.0	-22.3	-12.8	24.8	74.7	43.3	-60.3	-23.4	-13.4	0.9
0.93	43.3	-60.1	-22.4	-12.8	21.5	77.3	43.3	-60.4	-23.4	-13.5	0.9
0.96	43.3	-60.1	-22.5	-12.9	17.9	79.8	43.3	-60.4	-23.4	-13.5	0.9
1.00	43.3	-60.0	-22.5	-13.0	17.3	82.3	43.3	-60.4	-23.5	-13.5	0.9
1.20	43.3	-60.1	-22.6	-13.0	14.6	84.8	43.3	-60.4	-23.5	-13.5	0.8
1.66	43.3	-60.1	-22.6	-13.1	11.8	87.4	43.3	-60.4	-23.5	-13.6	0.8
2.13	43.3	-60.1	-22.7	-13.1	10.0	89.9	43.3	-60.4	-23.5	-13.6	0.9
2.59	43.3	-60.2	-22.7	-13.2	9.4	92.4	43.3	-60.5	-23.5	-13.6	0.9
3.05	43.3	-60.2	-22.8	-13.2	6.9	94.9	43.3	-60.5	-23.6	-13.6	0.8
3.52	43.3	-60.2	-22.8	-13.2	6.8	97.5	43.3	-60.5	-23.6	-13.6	0.8
3.98	43.3	-60.3	-22.9	-13.3	5.4	100.0	43.3	-60.4	-23.6	-13.7	0.8
4.44	43.3	-60.3	-23.0	-13.3	3.7	102.0	43.3	-60.4	-23.7	-13.7	0.8
4.91	43.4	-60.4	-23.0	-13.3	2.7	109.8	43.2	-60.4	-23.7	-13.7	0.9
5.37	43.4	-60.4	-23.0	-13.3	2.1	117.6	43.2	-60.4	-23.8	-13.8	0.8
5.83	43.4	-60.4	-23.1	-13.3	1.8	125.4	43.2	-60.4	-23.8	-13.8	0.8
6.29	43.4	-60.4	-23.1	-13.3	1.6	133.2	43.2	-60.4	-23.9	-13.9	0.8
6.76	43.4	-60.4	-23.1	-13.3	1.4	140.9	43.2	-60.4	-23.9	-14.0	0.8
7.22	43.4	-60.4	-23.2	-13.3	1.3	148.7	43.2	-60.5	-23.9	-14.0	0.8
7.68	43.4	-60.5	-23.2	-13.3	1.2	156.5	43.2	-60.4	-24.0	-14.1	0.8
8.15	43.4	-60.5	-23.2	-13.3	1.1	164.3	43.2	-60.5	-24.1	-14.1	0.9
8.61	43.4	-60.4	-23.2	-13.3	1.1	172.1	43.1	-60.5	-24.2	-14.2	0.9
9.07	43.4	-60.4	-23.2	-13.3	1.1	179.9	43.1	-60.5	-24.2	-14.3	0.9
9.54	43.4	-60.4	-23.2	-13.3	1.0	187.7	43.1	-60.5	-24.3	-14.3	0.9
10.0	43.4	-60.5	-23.2	-13.3	1.0	195.5	43.1	-60.5	-24.4	-14.4	0.9
12.0	43.4	-60.5	-23.2	-13.3	1.0	203.3	43.1	-60.5	-24.5	-14.4	0.8
14.0	43.4	-60.4	-23.2	-13.3	1.0	211.1	43.1	-60.5	-24.5	-14.5	0.8
16.0	43.4	-60.5	-23.2	-13.3	0.9	218.8	43.0	-60.5	-24.6	-14.6	0.8
18.0	43.4	-60.4	-23.2	-13.3	1.1	226.6	43.0	-60.6	-24.6	-14.7	0.8
20.0	43.4	-60.4	-23.2	-13.3	1.0	234.4	43.0	-60.5	-24.7	-14.7	0.8
22.0	43.4	-60.3	-23.2	-13.3	1.0	242.2	43.0	-60.5	-24.7	-14.8	0.8
24.0	43.4	-60.3	-23.2	-13.3	0.9	250.0	43.0	-60.5	-24.8	-14.8	0.8
26.0	43.4	-60.3	-23.2	-13.3	0.9	255.0	43.0	-60.5	-24.8	-14.9	0.8
28.0	43.4	-60.3	-23.3	-13.3	0.9	267.9	42.9	-60.6	-24.8	-15.0	0.8
30.0	43.3	-60.3	-23.3	-13.3	0.9	280.8	42.9	-60.6	-24.7	-15.1	0.8
32.0	43.3	-60.3	-23.3	-13.3	0.9	293.7	42.9	-60.6	-24.6	-15.2	0.8
34.0	43.3	-60.3	-23.3	-13.3	0.9	306.6	42.9	-60.7	-24.6	-15.3	0.8
36.0	43.3	-60.3	-23.3	-13.3	0.9	319.5	42.9	-60.8	-24.5	-15.4	0.8

AM-1622 Series

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay Ns	Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay Ns
332.4	42.9	-60.9	-24.4	-15.5	0.8	899.0	43.5	-63.3	-20.7	-14.5	0.9
345.3	42.9	-61.0	-24.3	-15.6	0.8	909.1	43.5	-63.3	-20.8	-14.5	0.9
358.2	42.9	-61.0	-24.1	-15.6	0.8	919.2	43.5	-63.3	-20.8	-14.5	0.9
371.1	42.8	-61.1	-24.0	-15.7	0.8	929.3	43.5	-63.3	-20.9	-14.5	0.9
383.9	42.8	-61.2	-23.8	-15.8	0.8	939.4	43.5	-63.2	-21.0	-14.5	0.9
396.8	42.9	-61.3	-23.6	-15.8	0.8	949.5	43.5	-63.1	-21.0	-14.5	0.9
409.7	42.9	-61.4	-23.4	-15.9	0.8	959.6	43.6	-63.1	-21.1	-14.5	0.9
422.6	42.9	-61.6	-23.2	-15.9	0.8	969.7	43.6	-63.1	-21.2	-14.5	0.9
435.5	42.9	-61.7	-23.1	-15.9	0.8	979.8	43.6	-63.1	-21.2	-14.6	0.9
448.4	42.9	-61.8	-22.9	-15.9	0.8	989.9	43.6	-63.1	-21.3	-14.6	0.9
461.3	42.9	-61.8	-22.7	-15.9	0.8	1000.0	43.6	-63.1	-21.4	-14.6	0.9
474.2	42.9	-62.0	-22.6	-15.9	0.8	1005.0	43.6	-63.0	-21.5	-14.7	0.9
487.1	43.0	-62.0	-22.4	-15.9	0.8	1015.1	43.6	-63.0	-21.6	-14.7	0.9
500.0	43.0	-62.1	-22.2	-15.9	0.8	1025.2	43.6	-63.0	-21.7	-14.7	0.9
505.0	43.0	-62.2	-22.1	-15.8	0.8	1035.3	43.6	-62.9	-21.7	-14.8	0.9
515.1	43.0	-62.3	-21.9	-15.8	0.8	1045.4	43.6	-62.8	-21.8	-14.8	0.9
525.2	43.0	-62.4	-21.7	-15.8	0.8	1055.5	43.6	-62.8	-21.9	-14.9	0.9
535.3	43.0	-62.5	-21.6	-15.7	0.8	1065.6	43.6	-62.8	-22.0	-15.0	0.9
545.4	43.1	-62.6	-21.5	-15.7	0.8	1075.7	43.6	-62.7	-22.1	-15.0	0.9
555.5	43.1	-62.6	-21.4	-15.6	0.8	1085.8	43.6	-62.7	-22.2	-15.1	0.9
565.6	43.1	-62.6	-21.3	-15.6	0.8	1095.9	43.6	-62.8	-22.3	-15.2	0.9
575.7	43.1	-62.7	-21.2	-15.5	0.8	1106.0	43.6	-62.7	-22.4	-15.2	0.9
585.8	43.1	-62.9	-21.1	-15.5	0.9	1116.1	43.6	-62.6	-22.5	-15.3	0.9
595.9	43.2	-62.9	-21.0	-15.4	0.8	1126.2	43.6	-62.5	-22.6	-15.4	0.9
606.0	43.2	-62.9	-20.9	-15.4	0.8	1136.3	43.6	-62.5	-22.7	-15.5	0.9
616.1	43.2	-62.9	-20.9	-15.3	0.9	1146.4	43.6	-62.5	-22.8	-15.5	0.9
626.2	43.2	-63.0	-20.8	-15.2	0.9	1156.5	43.6	-62.5	-22.9	-15.6	0.9
636.3	43.2	-63.0	-20.7	-15.2	0.9	1166.6	43.6	-62.5	-23.0	-15.7	0.9
646.4	43.2	-63.1	-20.7	-15.1	0.9	1176.7	43.6	-62.5	-23.2	-15.8	0.9
656.5	43.3	-63.2	-20.6	-15.1	0.9	1186.8	43.6	-62.5	-23.3	-15.9	0.9
666.6	43.3	-63.2	-20.6	-15.0	0.9	1196.9	43.6	-62.4	-23.4	-16.0	0.9
676.7	43.3	-63.1	-20.6	-15.0	0.9	1207.0	43.6	-62.5	-23.5	-16.1	0.9
686.8	43.3	-63.2	-20.5	-14.9	0.9	1217.1	43.6	-62.4	-23.6	-16.2	0.9
696.9	43.3	-63.3	-20.5	-14.9	0.9	1227.2	43.6	-62.4	-23.7	-16.3	0.9
707.0	43.3	-63.3	-20.5	-14.9	0.9	1237.3	43.6	-62.3	-23.9	-16.4	0.9
717.1	43.3	-63.4	-20.4	-14.8	0.9	1247.4	43.6	-62.3	-24.0	-16.5	0.9
727.2	43.3	-63.4	-20.4	-14.8	0.9	1257.6	43.6	-62.2	-24.1	-16.7	0.9
737.3	43.4	-63.3	-20.4	-14.7	0.9	1267.7	43.6	-62.1	-24.3	-16.8	0.9
747.4	43.4	-63.3	-20.4	-14.7	0.9	1277.8	43.6	-62.1	-24.4	-16.9	0.9
757.6	43.4	-63.3	-20.4	-14.7	0.9	1287.9	43.6	-62.0	-24.6	-17.1	0.9
767.7	43.4	-63.3	-20.4	-14.7	0.9	1298.0	43.7	-61.9	-24.7	-17.2	0.9
777.8	43.4	-63.4	-20.4	-14.6	0.9	1308.1	43.7	-61.9	-24.9	-17.3	0.9
787.9	43.4	-63.4	-20.4	-14.6	0.9	1318.2	43.7	-61.8	-25.0	-17.5	0.9
798.0	43.4	-63.4	-20.4	-14.6	0.9	1328.3	43.7	-61.8	-25.2	-17.6	0.9
808.1	43.4	-63.3	-20.4	-14.6	0.9	1338.4	43.7	-61.8	-25.4	-17.8	0.9
818.2	43.4	-63.4	-20.4	-14.6	0.9	1348.5	43.7	-61.7	-25.6	-17.9	0.9
828.3	43.4	-63.4	-20.4	-14.6	0.9	1358.6	43.7	-61.7	-25.8	-18.0	0.9
838.4	43.5	-63.3	-20.4	-14.5	0.9	1368.7	43.6	-61.7	-26.0	-18.2	0.9
848.5	43.5	-63.2	-20.5	-14.5	0.9	1378.8	43.6	-61.6	-26.2	-18.3	0.9
858.6	43.5	-63.2	-20.5	-14.5	0.9	1388.9	43.6	-61.6	-26.4	-18.5	0.9
868.7	43.5	-63.2	-20.6	-14.5	0.9	1399.0	43.6	-61.6	-26.7	-18.6	0.9
878.8	43.5	-63.2	-20.6	-14.5	0.9	1409.1	43.6	-61.6	-26.9	-18.8	0.9
888.9	43.5	-63.3	-20.7	-14.5	0.9	1419.2	43.6	-61.7	-27.2	-18.9	0.9

AM-1622 Series

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay Ns	Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay Ns
1429.3	43.6	-61.6	-27.5	-19.1	0.9	1959.6	43.4	-59.8	-28.7	-16.5	0.9
1439.4	43.6	-61.6	-27.7	-19.2	0.9	1969.7	43.4	-59.7	-28.4	-16.4	0.9
1449.5	43.6	-61.6	-28.0	-19.3	0.9	1979.8	43.4	-59.7	-28.1	-16.3	0.9
1459.6	43.6	-61.6	-28.2	-19.5	0.9	1989.9	43.4	-59.7	-27.8	-16.2	0.9
1469.7	43.6	-61.5	-28.5	-19.6	0.9	2000.0	43.4	-59.7	-27.6	-16.2	0.9
1479.8	43.6	-61.5	-28.8	-19.7	0.9	2005.0	43.4	-59.6	-27.4	-16.1	0.9
1489.9	43.6	-61.4	-29.0	-19.8	0.9	2015.1	43.4	-59.6	-27.2	-16.0	0.9
1500.0	43.6	-61.3	-29.3	-19.9	0.9	2025.2	43.4	-59.6	-26.9	-16.0	0.9
1505.0	43.6	-61.3	-29.6	-20.0	0.9	2035.3	43.4	-59.5	-26.7	-15.9	0.9
1515.1	43.6	-61.1	-29.9	-20.1	0.9	2045.4	43.4	-59.5	-26.5	-15.8	0.9
1525.2	43.6	-61.1	-30.3	-20.2	0.9	2055.5	43.3	-59.4	-26.3	-15.8	0.9
1535.3	43.6	-61.1	-30.7	-20.3	0.9	2065.6	43.3	-59.4	-26.1	-15.7	0.9
1545.4	43.6	-61.1	-31.1	-20.3	0.9	2075.7	43.3	-59.3	-25.9	-15.7	0.9
1555.5	43.6	-61.0	-31.5	-20.3	0.9	2085.8	43.3	-59.2	-25.7	-15.6	0.9
1565.6	43.6	-60.9	-32.0	-20.4	0.9	2095.9	43.3	-59.1	-25.4	-15.6	0.9
1575.7	43.6	-60.9	-32.6	-20.4	0.9	2106.0	43.3	-59.1	-25.2	-15.6	0.9
1585.8	43.6	-60.9	-33.2	-20.4	0.9	2116.1	43.3	-59.2	-25.0	-15.5	0.9
1595.9	43.6	-60.8	-33.9	-20.3	0.9	2126.2	43.3	-59.1	-24.8	-15.5	0.9
1606.0	43.6	-60.7	-34.7	-20.3	0.9	2136.3	43.3	-59.1	-24.6	-15.5	0.9
1616.1	43.6	-60.7	-35.4	-20.3	0.9	2146.4	43.3	-59.0	-24.4	-15.5	0.9
1626.2	43.6	-60.6	-36.3	-20.2	0.9	2156.5	43.3	-58.9	-24.2	-15.5	0.9
1636.3	43.6	-60.6	-37.2	-20.2	0.9	2166.6	43.3	-58.9	-24.1	-15.5	0.9
1646.4	43.6	-60.6	-38.3	-20.1	0.9	2176.7	43.3	-58.8	-23.9	-15.5	0.9
1656.5	43.6	-60.6	-39.7	-20.0	0.9	2186.8	43.3	-58.8	-23.8	-15.5	0.9
1666.6	43.6	-60.6	-41.5	-19.9	0.9	2196.9	43.3	-58.7	-23.6	-15.5	0.9
1676.7	43.6	-60.5	-42.7	-19.8	0.9	2207.0	43.3	-58.7	-23.5	-15.5	0.9
1686.8	43.6	-60.4	-43.7	-19.7	0.9	2217.1	43.2	-58.7	-23.4	-15.5	0.9
1696.9	43.5	-60.4	-44.3	-19.6	0.9	2227.2	43.2	-58.6	-23.3	-15.5	0.9
1707.0	43.5	-60.4	-44.5	-19.5	0.9	2237.3	43.2	-58.6	-23.2	-15.5	0.9
1717.1	43.5	-60.4	-44.6	-19.4	0.9	2247.4	43.2	-58.5	-23.1	-15.5	0.9
1727.2	43.5	-60.4	-44.5	-19.3	0.9	2257.6	43.2	-58.4	-23.0	-15.6	0.9
1737.3	43.5	-60.4	-44.3	-19.2	0.9	2267.7	43.2	-58.3	-22.9	-15.6	0.9
1747.4	43.5	-60.3	-43.9	-19.0	0.9	2277.8	43.2	-58.3	-22.8	-15.6	0.9
1757.6	43.5	-60.3	-43.4	-18.9	0.9	2287.9	43.2	-58.2	-22.7	-15.7	0.9
1767.7	43.5	-60.3	-42.8	-18.8	0.9	2298.0	43.2	-58.1	-22.6	-15.7	0.9
1777.8	43.5	-60.3	-42.1	-18.6	0.9	2308.1	43.2	-58.1	-22.5	-15.8	0.9
1787.9	43.5	-60.2	-41.3	-18.5	0.9	2318.2	43.1	-58.0	-22.3	-15.8	0.9
1798.0	43.5	-60.1	-40.2	-18.3	0.9	2328.3	43.1	-58.0	-22.2	-15.9	0.9
1808.1	43.5	-60.1	-38.7	-18.2	0.9	2338.4	43.1	-57.9	-22.1	-15.9	0.9
1818.2	43.5	-60.0	-36.9	-18.1	0.9	2348.5	43.1	-57.9	-22.0	-16.0	0.9
1828.3	43.5	-60.0	-35.5	-17.9	0.9	2358.6	43.1	-57.9	-21.9	-16.0	0.9
1838.4	43.5	-60.0	-34.2	-17.8	0.9	2368.7	43.1	-57.8	-21.8	-16.1	0.9
1848.5	43.5	-60.0	-33.4	-17.7	0.9	2378.8	43.1	-57.7	-21.7	-16.1	0.9
1858.6	43.4	-60.0	-32.7	-17.5	0.9	2388.9	43.1	-57.7	-21.6	-16.2	0.9
1868.7	43.4	-60.0	-32.1	-17.4	0.9	2399.0	43.0	-57.7	-21.5	-16.3	0.9
1878.8	43.4	-59.9	-31.6	-17.3	0.9	2409.1	43.0	-57.6	-21.4	-16.3	0.9
1888.9	43.4	-59.9	-31.1	-17.2	0.9	2419.2	43.0	-57.6	-21.2	-16.4	0.9
1899.0	43.4	-59.9	-30.6	-17.1	0.9	2429.3	43.0	-57.5	-21.1	-16.5	0.9
1909.1	43.4	-59.8	-30.3	-17.0	0.9	2439.4	43.0	-57.5	-21.0	-16.5	0.9
1919.2	43.4	-59.8	-29.9	-16.9	0.9	2449.5	43.0	-57.4	-20.9	-16.6	0.9
1929.3	43.4	-59.7	-29.5	-16.8	0.9	2459.6	43.0	-57.4	-20.7	-16.7	0.9
1939.4	43.4	-59.8	-29.2	-16.7	0.9	2469.7	43.0	-57.4	-20.6	-16.7	0.9
1949.5	43.4	-59.8	-29.0	-16.6	0.9	2479.8	42.9	-57.3	-20.5	-16.8	0.9

AM-1622 Series

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay Ns
2489.9	42.9	-57.2	-20.3	-16.8	0.9
2500.0	42.9	-57.2	-20.2	-16.9	0.9
2505.0	42.9	-57.0	-20.0	-16.9	0.9
2515.1	42.9	-57.0	-19.9	-17.0	0.9
2525.2	42.9	-56.9	-19.7	-17.0	0.9
2535.3	42.8	-56.9	-19.5	-17.0	0.9
2545.4	42.8	-56.8	-19.3	-17.0	1.0
2555.5	42.8	-56.7	-19.1	-17.0	1.0
2565.6	42.8	-56.7	-18.9	-17.0	0.9
2575.7	42.8	-56.7	-18.7	-16.9	1.0
2585.8	42.8	-56.7	-18.5	-16.9	1.0
2595.9	42.7	-56.6	-18.3	-16.8	1.0
2606.0	42.7	-56.5	-18.0	-16.7	1.0
2616.1	42.7	-56.4	-17.8	-16.7	1.0
2626.2	42.7	-56.4	-17.6	-16.6	1.0
2636.3	42.6	-56.2	-17.3	-16.4	1.0
2646.4	42.6	-56.2	-17.1	-16.3	1.0
2656.5	42.6	-56.1	-16.8	-16.2	1.0
2666.6	42.6	-56.1	-16.6	-16.0	1.0
2676.7	42.5	-56.1	-16.3	-15.9	1.0
2686.8	42.5	-56.0	-16.1	-15.7	1.0
2696.9	42.5	-56.0	-15.8	-15.5	1.0
2707.0	42.4	-55.9	-15.6	-15.3	1.0
2717.1	42.4	-55.8	-15.3	-15.1	1.0
2727.2	42.4	-55.8	-15.1	-14.9	1.0
2737.3	42.3	-55.7	-14.8	-14.7	1.0
2747.4	42.3	-55.7	-14.6	-14.5	1.0
2757.6	42.3	-55.7	-14.4	-14.3	1.0
2767.7	42.2	-55.6	-14.2	-14.1	1.0
2777.8	42.2	-55.5	-13.9	-13.9	1.0
2787.9	42.1	-55.5	-13.7	-13.7	1.0
2798.0	42.1	-55.4	-13.5	-13.5	1.0
2808.1	42.0	-55.4	-13.3	-13.3	1.0
2818.2	42.0	-55.4	-13.1	-13.1	1.0
2828.3	41.9	-55.3	-13.0	-12.9	1.0
2838.4	41.9	-55.2	-12.8	-12.6	1.0
2848.5	41.8	-55.2	-12.6	-12.4	1.0
2858.6	41.8	-55.1	-12.5	-12.2	1.0
2868.7	41.7	-55.1	-12.3	-12.0	1.0
2878.8	41.6	-55.0	-12.2	-11.8	1.0
2888.9	41.6	-55.0	-12.1	-11.6	1.0
2899.0	41.5	-54.9	-11.9	-11.4	1.0
2909.1	41.4	-54.8	-11.8	-11.2	1.0
2919.2	41.4	-54.7	-11.7	-11.0	1.0
2929.3	41.3	-54.7	-11.6	-10.8	1.0
2939.4	41.2	-54.6	-11.4	-10.6	1.0
2949.5	41.2	-54.6	-11.3	-10.4	1.0
2959.6	41.1	-54.5	-11.2	-10.2	1.0
2969.7	41.0	-54.4	-11.1	-10.1	1.0
2979.8	40.9	-54.4	-11.0	-9.9	1.0
2989.9	40.9	-54.3	-10.9	-9.8	1.0
3000.0	40.8	-54.5	-10.9	-9.6	1.0