

# AM-1682 Series

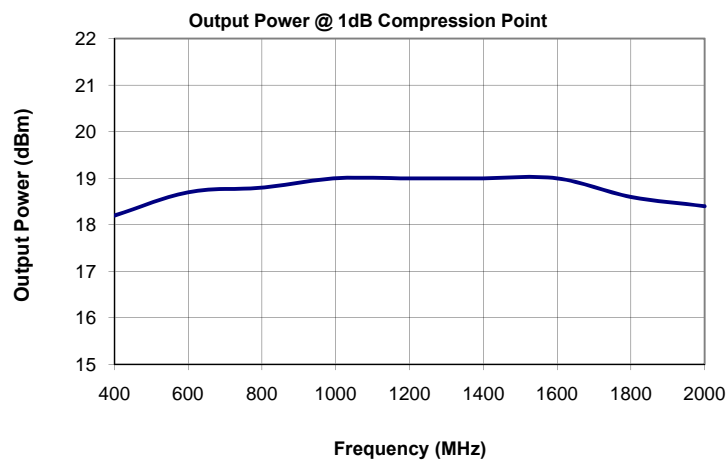
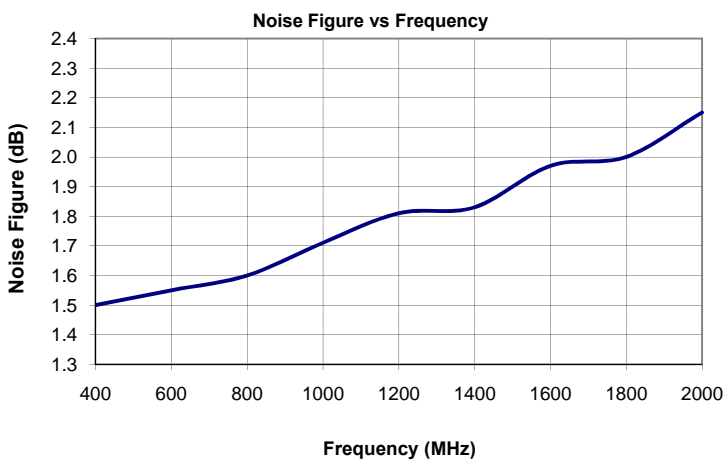
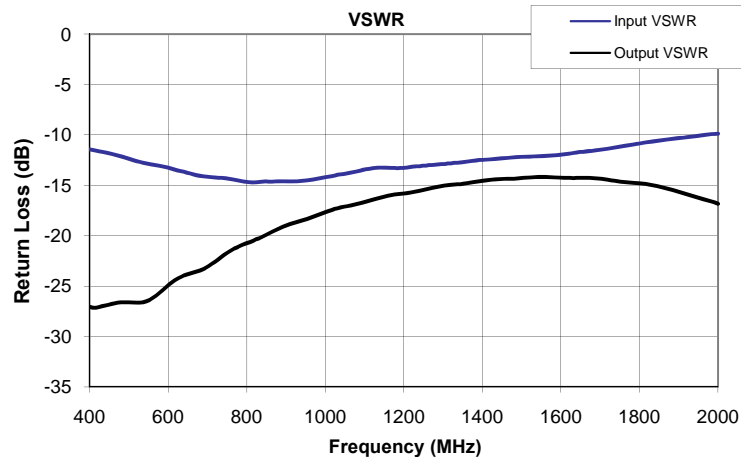
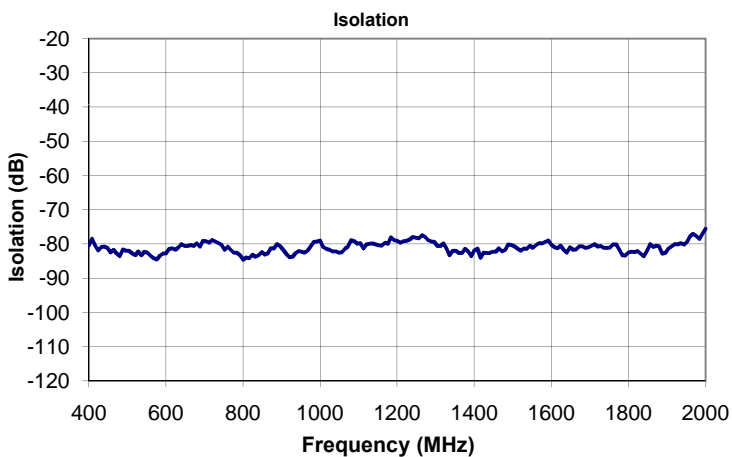
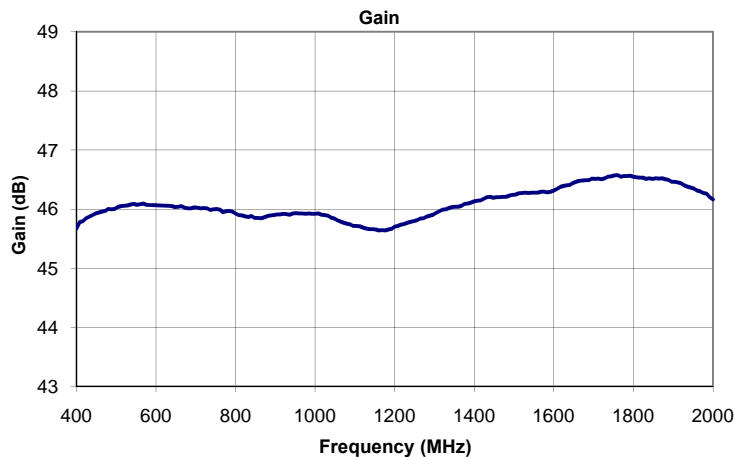
## Features

- 3-Year Warranty
- Excellent Gain Flatness
- Low Noise Figure
- Internally regulated to +9V
- Reverse voltage protected

Specifications for AM-1682-0420

Parameter	Specification
Frequency Range	400-2000 MHz
Gain	43 dB Min.
Gain Flatness	± 0.75 dB Max.
Input VSWR	2.0:1 Max.
Output VSWR	2.0:1 Max.
*Noise Figure (dB)	1.6, 1.9, 2.4
Output P1dB	+17 dBm
DC Voltage	+15 to +18 (Marked for +15)
DC Current	180 mA

\*Noise Figure at 400 MHz, 1200 MHz & 2000 MHz



# AM-1682 Series

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay Ns
400	45.7	-80.5	-11.4	-27.1	1.9
408	45.8	-78.4	-11.5	-27.1	1.7
416	45.8	-80.4	-11.6	-27.1	1.7
424	45.8	-81.9	-11.6	-27.1	1.7
432	45.9	-80.9	-11.7	-27.0	1.7
440	45.9	-80.8	-11.8	-26.9	1.7
448	45.9	-81.2	-11.8	-26.9	1.6
456	45.9	-82.5	-11.9	-26.8	1.6
464	46.0	-81.7	-12.0	-26.7	1.6
472	46.0	-82.9	-12.0	-26.7	1.6
480	46.0	-83.6	-12.1	-26.6	1.6
488	46.0	-81.6	-12.2	-26.6	1.6
496	46.0	-82.1	-12.3	-26.6	1.6
504	46.0	-82.0	-12.4	-26.6	1.6
512	46.0	-82.8	-12.5	-26.6	1.5
520	46.1	-83.4	-12.6	-26.6	1.5
528	46.1	-82.3	-12.7	-26.6	1.6
536	46.1	-83.4	-12.8	-26.6	1.6
544	46.1	-82.3	-12.8	-26.5	1.5
552	46.1	-82.6	-12.9	-26.4	1.5
560	46.1	-83.5	-13.0	-26.2	1.5
568	46.1	-84.2	-13.0	-26.0	1.5
576	46.1	-84.6	-13.1	-25.7	1.5
584	46.1	-83.4	-13.1	-25.5	1.5
592	46.1	-82.9	-13.2	-25.2	1.5
600	46.1	-82.7	-13.3	-24.9	1.4
608	46.1	-81.5	-13.3	-24.7	1.4
616	46.1	-81.3	-13.4	-24.4	1.5
624	46.1	-81.8	-13.5	-24.2	1.4
632	46.1	-81.1	-13.6	-24.1	1.5
640	46.0	-80.1	-13.7	-24.0	1.4
648	46.0	-80.7	-13.7	-23.8	1.4
656	46.0	-80.6	-13.8	-23.7	1.4
664	46.0	-80.4	-13.9	-23.7	1.4
672	46.0	-80.6	-14.0	-23.6	1.4
680	46.0	-79.9	-14.1	-23.5	1.4
688	46.0	-80.8	-14.1	-23.3	1.4
696	46.0	-79.1	-14.1	-23.2	1.4
704	46.0	-79.3	-14.2	-23.0	1.4
712	46.0	-79.6	-14.2	-22.8	1.4
720	46.0	-78.8	-14.2	-22.6	1.3
728	46.0	-79.3	-14.3	-22.3	1.3
736	46.0	-79.7	-14.3	-22.1	1.4
744	46.0	-80.3	-14.3	-21.9	1.4
752	46.0	-81.7	-14.3	-21.7	1.4
760	46.0	-80.8	-14.4	-21.5	1.3
768	45.9	-81.8	-14.5	-21.3	1.4
776	46.0	-82.6	-14.5	-21.1	1.3
784	46.0	-82.6	-14.6	-21.0	1.4
792	46.0	-83.4	-14.6	-20.9	1.4
800	45.9	-84.7	-14.7	-20.8	1.4
808	45.9	-84.0	-14.7	-20.6	1.3
816	45.9	-84.1	-14.7	-20.5	1.4

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay Ns
824	45.9	-83.1	-14.7	-20.4	1.3
832	45.9	-83.8	-14.7	-20.3	1.4
840	45.9	-83.3	-14.7	-20.1	1.3
848	45.8	-82.4	-14.6	-20.0	1.3
856	45.8	-83.1	-14.6	-19.8	1.3
864	45.8	-82.8	-14.6	-19.6	1.3
872	45.9	-81.3	-14.6	-19.5	1.3
880	45.9	-81.4	-14.6	-19.3	1.3
888	45.9	-80.0	-14.6	-19.2	1.3
896	45.9	-80.6	-14.6	-19.1	1.3
904	45.9	-81.7	-14.6	-18.9	1.3
912	45.9	-83.0	-14.6	-18.8	1.4
920	45.9	-83.9	-14.6	-18.7	1.4
928	45.9	-83.8	-14.6	-18.6	1.3
936	45.9	-82.7	-14.6	-18.6	1.3
944	45.9	-82.1	-14.6	-18.5	1.4
952	45.9	-82.3	-14.5	-18.4	1.4
960	45.9	-82.6	-14.5	-18.3	1.3
968	45.9	-81.9	-14.4	-18.2	1.3
976	45.9	-80.6	-14.4	-18.0	1.3
984	45.9	-79.4	-14.3	-17.9	1.3
992	45.9	-79.3	-14.3	-17.8	1.3
1000	45.9	-79.0	-14.2	-17.7	1.3
1008	45.9	-80.9	-14.2	-17.6	1.3
1016	45.9	-81.4	-14.1	-17.5	1.3
1024	45.9	-81.8	-14.0	-17.4	1.3
1032	45.9	-82.2	-14.0	-17.3	1.3
1040	45.9	-82.2	-13.9	-17.2	1.3
1048	45.8	-82.6	-13.9	-17.1	1.3
1056	45.8	-82.5	-13.8	-17.1	1.3
1064	45.8	-81.5	-13.8	-17.0	1.3
1072	45.8	-80.8	-13.7	-16.9	1.3
1080	45.8	-78.9	-13.6	-16.9	1.3
1088	45.7	-79.2	-13.6	-16.8	1.3
1096	45.7	-79.9	-13.5	-16.7	1.3
1104	45.7	-79.8	-13.4	-16.6	1.3
1112	45.7	-81.3	-13.4	-16.6	1.3
1120	45.7	-80.2	-13.3	-16.5	1.3
1128	45.7	-80.0	-13.3	-16.4	1.2
1136	45.7	-79.9	-13.3	-16.3	1.3
1144	45.7	-80.2	-13.2	-16.2	1.3
1152	45.7	-80.4	-13.3	-16.1	1.2
1160	45.6	-80.5	-13.3	-16.1	1.3
1168	45.6	-79.7	-13.3	-16.0	1.3
1176	45.6	-80.0	-13.3	-15.9	1.2
1184	45.7	-78.1	-13.3	-15.9	1.2
1192	45.7	-79.0	-13.3	-15.9	1.3
1200	45.7	-79.1	-13.3	-15.8	1.2
1208	45.7	-79.7	-13.2	-15.8	1.2
1216	45.7	-79.2	-13.2	-15.7	1.3
1224	45.7	-79.2	-13.2	-15.7	1.3
1232	45.8	-78.8	-13.1	-15.6	1.3
1240	45.8	-78.0	-13.1	-15.6	1.2

# AM-1682 Series

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay Ns
1248	45.8	-78.2	-13.1	-15.5	1.3
1256	45.8	-78.4	-13.0	-15.4	1.3
1264	45.8	-77.4	-13.0	-15.4	1.3
1272	45.8	-77.9	-13.0	-15.3	1.3
1280	45.9	-78.9	-13.0	-15.2	1.3
1288	45.9	-79.3	-12.9	-15.1	1.3
1296	45.9	-79.4	-12.9	-15.1	1.3
1304	45.9	-80.6	-12.9	-15.0	1.3
1312	46.0	-80.6	-12.8	-15.0	1.3
1320	46.0	-79.9	-12.8	-15.0	1.3
1328	46.0	-81.5	-12.8	-14.9	1.3
1336	46.0	-83.3	-12.8	-14.9	1.3
1344	46.0	-82.0	-12.7	-14.9	1.3
1352	46.0	-82.1	-12.7	-14.9	1.3
1360	46.0	-82.7	-12.7	-14.8	1.3
1368	46.1	-82.6	-12.6	-14.8	1.3
1376	46.1	-81.4	-12.6	-14.7	1.3
1384	46.1	-82.2	-12.5	-14.7	1.3
1392	46.1	-83.6	-12.5	-14.6	1.3
1400	46.1	-81.9	-12.5	-14.6	1.3
1408	46.1	-81.3	-12.5	-14.5	1.3
1416	46.1	-84.0	-12.4	-14.5	1.3
1424	46.2	-82.6	-12.4	-14.4	1.3
1432	46.2	-82.7	-12.4	-14.4	1.3
1440	46.2	-82.6	-12.3	-14.4	1.4
1448	46.2	-82.4	-12.3	-14.4	1.3
1456	46.2	-82.3	-12.3	-14.4	1.3
1464	46.2	-81.3	-12.3	-14.4	1.3
1472	46.2	-82.2	-12.3	-14.4	1.3
1480	46.2	-81.7	-12.2	-14.4	1.3
1488	46.2	-80.1	-12.2	-14.3	1.3
1496	46.2	-80.4	-12.2	-14.3	1.3
1504	46.2	-80.8	-12.2	-14.3	1.3
1512	46.3	-81.3	-12.2	-14.3	1.3
1520	46.3	-82.1	-12.2	-14.2	1.3
1528	46.3	-81.4	-12.1	-14.2	1.3
1536	46.3	-81.5	-12.1	-14.2	1.3
1544	46.3	-80.6	-12.1	-14.2	1.3
1552	46.3	-81.2	-12.1	-14.2	1.4
1560	46.3	-80.4	-12.1	-14.2	1.3
1568	46.3	-79.7	-12.1	-14.2	1.3
1576	46.3	-79.9	-12.1	-14.2	1.3
1584	46.3	-79.4	-12.0	-14.2	1.3
1592	46.3	-79.0	-12.0	-14.3	1.3
1600	46.3	-80.2	-12.0	-14.3	1.3
1608	46.3	-81.0	-11.9	-14.3	1.3
1616	46.4	-81.3	-11.9	-14.3	1.3
1624	46.4	-80.5	-11.8	-14.3	1.3
1632	46.4	-81.8	-11.8	-14.3	1.3
1640	46.4	-82.6	-11.8	-14.3	1.3
1648	46.4	-81.0	-11.7	-14.3	1.3
1656	46.5	-81.8	-11.7	-14.3	1.3
1664	46.5	-81.7	-11.6	-14.3	1.3

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay Ns
1672	46.5	-80.7	-11.6	-14.3	1.4
1680	46.5	-80.7	-11.6	-14.3	1.4
1688	46.5	-81.2	-11.5	-14.3	1.3
1696	46.5	-81.0	-11.5	-14.3	1.3
1704	46.5	-80.5	-11.5	-14.4	1.4
1712	46.5	-80.0	-11.4	-14.4	1.3
1720	46.5	-80.8	-11.4	-14.5	1.4
1728	46.5	-80.7	-11.3	-14.5	1.3
1736	46.6	-81.2	-11.3	-14.6	1.4
1744	46.6	-81.2	-11.2	-14.6	1.4
1752	46.6	-81.1	-11.2	-14.7	1.4
1760	46.6	-80.2	-11.1	-14.7	1.4
1768	46.5	-80.2	-11.0	-14.7	1.4
1776	46.6	-81.7	-11.0	-14.7	1.4
1784	46.6	-83.4	-10.9	-14.8	1.4
1792	46.6	-83.4	-10.9	-14.8	1.4
1800	46.5	-82.5	-10.9	-14.8	1.4
1808	46.5	-82.3	-10.8	-14.8	1.4
1816	46.5	-82.4	-10.8	-14.9	1.4
1824	46.5	-82.1	-10.7	-14.9	1.4
1832	46.5	-83.0	-10.7	-15.0	1.4
1840	46.5	-83.6	-10.6	-15.1	1.4
1848	46.5	-82.1	-10.6	-15.1	1.4
1856	46.5	-80.1	-10.5	-15.2	1.3
1864	46.5	-80.9	-10.5	-15.3	1.4
1872	46.5	-80.5	-10.4	-15.4	1.4
1880	46.5	-80.8	-10.4	-15.4	1.3
1888	46.5	-82.9	-10.4	-15.5	1.4
1896	46.5	-82.6	-10.3	-15.6	1.4
1904	46.5	-81.3	-10.3	-15.7	1.3
1912	46.4	-80.7	-10.3	-15.8	1.4
1920	46.4	-80.1	-10.2	-15.9	1.4
1928	46.4	-80.2	-10.2	-16.0	1.4
1936	46.4	-79.7	-10.2	-16.1	1.4
1944	46.4	-80.2	-10.1	-16.2	1.4
1952	46.3	-79.4	-10.1	-16.3	1.4
1960	46.3	-77.7	-10.0	-16.4	1.4
1968	46.3	-77.1	-10.0	-16.5	1.4
1976	46.3	-77.7	-10.0	-16.6	1.4
1984	46.3	-78.5	-9.9	-16.6	1.4
1992	46.2	-77.0	-9.9	-16.7	1.4
2000	46.2	-75.6	-9.9	-16.8	1.3