AM-1672

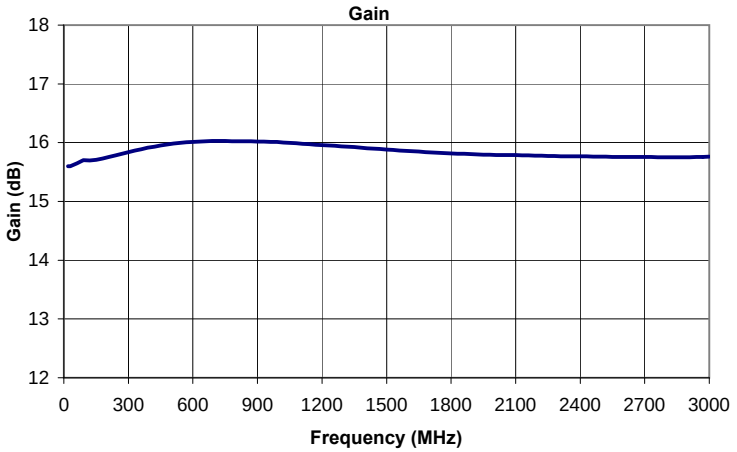
Features

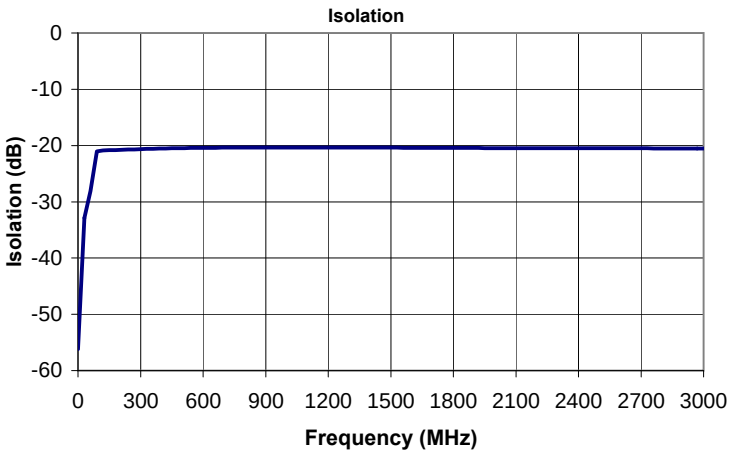
- Ultra Broadband
- Very Low VSWR
- Internally regulated to +5V
- Reverse voltage protected
- DC Voltage Range +8 ~ +30V

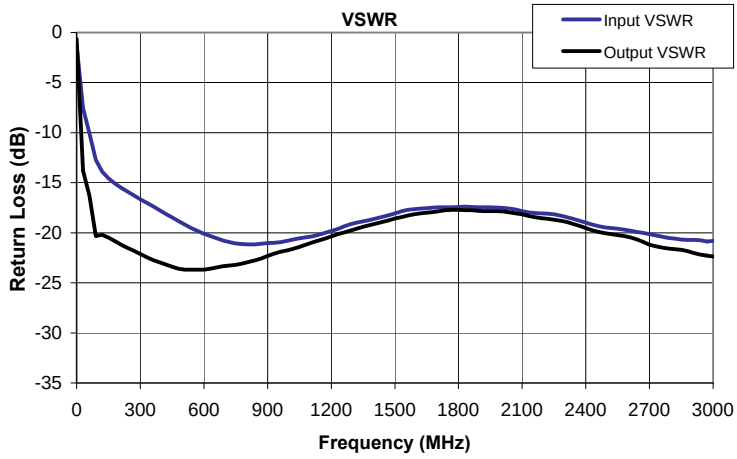
Parameter	Specification
Frequency Range (MHz)	50-3000
Gain (dB) Min.	15
Gain Flatness (± dB)	1.5
Input VSWR (dBRL)	2.0:1 (1.5:1 Typ.)
Output VSWR (dBRL)	2.0:1 (1.5:1 Typ.)
*Noise Figure (dB)	4.2, 4.5, 4.8
*Output P1dB (dBm)	12,14,13
DC Voltage	+15
DC Current (mA)	60

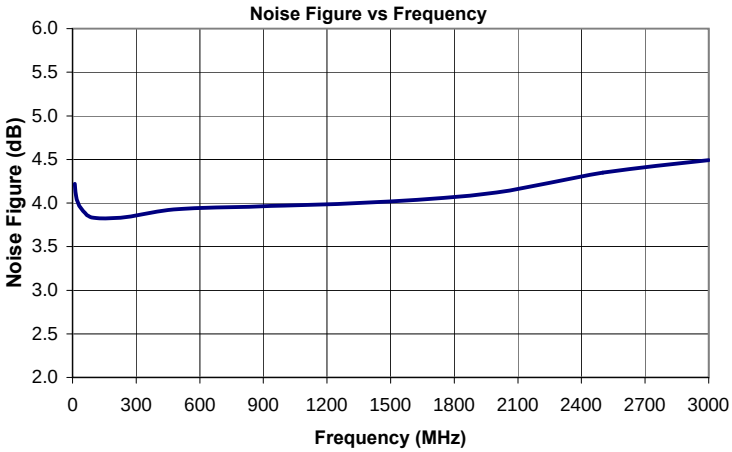
*Noise Figure at 10 MHz, 1500 MHz & 3000 MHz

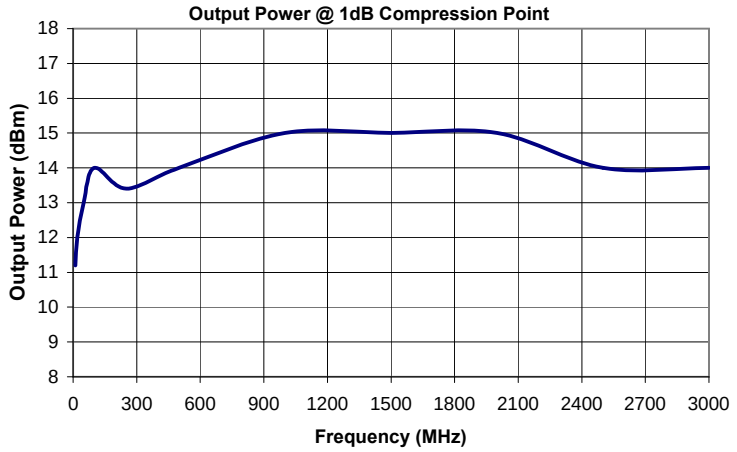
*P1dB at 50 MHz, 1500 MHz & 3000 MHz











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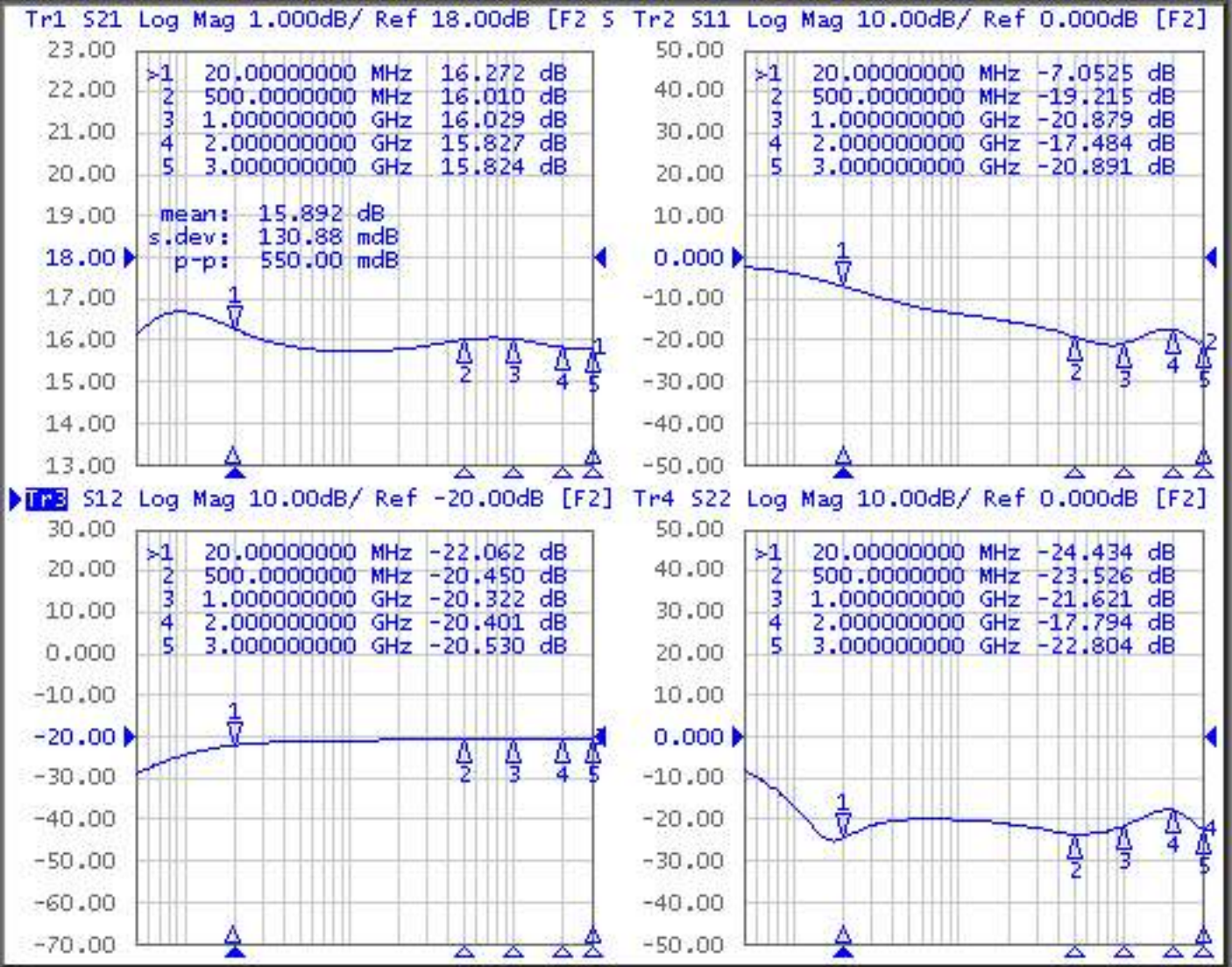
AM-1672

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay
20.0	15.6	-56.2	-1.3	-0.6	0.47
30.3	15.6	-32.9	-7.6	-13.8	0.49
60.3	15.7	-28.1	-10.1	-16.3	0.48
90.3	15.7	-21.0	-12.7	-20.3	0.48
120.3	15.7	-20.9	-13.9	-20.2	0.48
150.3	15.7	-20.8	-14.6	-20.5	0.48
180.3	15.7	-20.8	-15.1	-20.9	0.48
210.3	15.8	-20.8	-15.5	-21.2	0.49
240.3	15.8	-20.7	-15.9	-21.5	0.49
270.3	15.8	-20.7	-16.3	-21.8	0.49
300.3	15.8	-20.6	-16.7	-22.1	0.49
330.3	15.9	-20.6	-17.0	-22.4	0.50
360.3	15.9	-20.6	-17.4	-22.7	0.50
390.3	15.9	-20.5	-17.7	-22.9	0.50
420.3	15.9	-20.5	-18.1	-23.2	0.50
450.3	16.0	-20.5	-18.5	-23.4	0.50
480.3	16.0	-20.5	-18.8	-23.6	0.50
510.2	16.0	-20.4	-19.2	-23.7	0.50
540.2	16.0	-20.4	-19.5	-23.7	0.50
570.2	16.0	-20.4	-19.8	-23.7	0.51
600.2	16.0	-20.4	-20.1	-23.7	0.51
630.2	16.0	-20.4	-20.3	-23.6	0.51
660.2	16.0	-20.4	-20.6	-23.5	0.51
690.2	16.0	-20.4	-20.8	-23.3	0.51
720.2	16.0	-20.4	-20.9	-23.3	0.50
750.2	16.0	-20.4	-21.1	-23.2	0.50
780.2	16.0	-20.4	-21.1	-23.1	0.50
810.2	16.0	-20.4	-21.2	-22.9	0.50
840.2	16.0	-20.3	-21.1	-22.8	0.50
870.2	16.0	-20.3	-21.1	-22.6	0.50
900.2	16.0	-20.3	-21.0	-22.3	0.50
930.2	16.0	-20.3	-21.0	-22.1	0.50
960.2	16.0	-20.3	-20.9	-21.9	0.50
990.2	16.0	-20.3	-20.8	-21.8	0.50
1020.2	16.0	-20.3	-20.7	-21.6	0.50
1050.2	16.0	-20.3	-20.6	-21.4	0.50
1080.2	16.0	-20.3	-20.5	-21.2	0.50
1110.2	16.0	-20.3	-20.3	-21.0	0.50
1140.2	16.0	-20.3	-20.2	-20.8	0.50
1170.2	16.0	-20.3	-20.0	-20.6	0.50
1200.2	16.0	-20.4	-19.8	-20.4	0.50
1230.2	16.0	-20.4	-19.6	-20.1	0.50
1260.2	15.9	-20.4	-19.4	-20.0	0.50
1290.2	15.9	-20.4	-19.2	-19.8	0.50
1320.2	15.9	-20.4	-19.0	-19.6	0.50
1350.2	15.9	-20.4	-18.9	-19.4	0.50
1380.2	15.9	-20.4	-18.7	-19.2	0.50
1410.2	15.9	-20.4	-18.6	-19.1	0.50
1440.2	15.9	-20.4	-18.4	-18.9	0.50
1470.2	15.9	-20.4	-18.3	-18.7	0.50
1500.2	15.9	-20.4	-18.1	-18.6	0.50
1530.1	15.9	-20.4	-17.9	-18.4	0.50

Freq. (MHz)	Gain (dB)	Isol. (dB)	Input VSWR (dBRL)	Output VSWR (dBRL)	S21 Delay
1560.1	15.9	-20.4	-17.7	-18.3	0.49
1590.1	15.9	-20.4	-17.6	-18.2	0.49
1620.1	15.9	-20.4	-17.6	-18.1	0.50
1650.1	15.8	-20.4	-17.6	-18.0	0.50
1680.1	15.8	-20.4	-17.5	-17.9	0.50
1710.1	15.8	-20.4	-17.5	-17.8	0.50
1740.1	15.8	-20.4	-17.4	-17.8	0.50
1770.1	15.8	-20.4	-17.4	-17.7	0.49
1800.1	15.8	-20.4	-17.4	-17.7	0.49
1830.1	15.8	-20.4	-17.4	-17.7	0.49
1860.1	15.8	-20.4	-17.4	-17.8	0.49
1890.1	15.8	-20.4	-17.4	-17.8	0.50
1920.1	15.8	-20.4	-17.4	-17.8	0.50
1950.1	15.8	-20.4	-17.4	-17.8	0.49
1980.1	15.8	-20.4	-17.5	-17.8	0.49
2010.1	15.8	-20.4	-17.5	-17.9	0.49
2040.1	15.8	-20.4	-17.6	-18.0	0.49
2070.1	15.8	-20.4	-17.7	-18.0	0.50
2100.1	15.8	-20.4	-17.8	-18.2	0.50
2130.1	15.8	-20.5	-18.0	-18.3	0.50
2160.1	15.8	-20.5	-18.0	-18.4	0.50
2190.1	15.8	-20.5	-18.1	-18.5	0.50
2220.1	15.8	-20.5	-18.1	-18.6	0.50
2250.1	15.8	-20.5	-18.2	-18.7	0.50
2280.1	15.8	-20.5	-18.3	-18.8	0.50
2310.1	15.8	-20.5	-18.4	-18.9	0.50
2340.1	15.8	-20.5	-18.6	-19.1	0.50
2370.1	15.8	-20.5	-18.8	-19.3	0.50
2400.1	15.8	-20.5	-19.0	-19.5	0.50
2430.1	15.8	-20.5	-19.2	-19.7	0.50
2460.1	15.8	-20.5	-19.3	-19.9	0.50
2490.1	15.8	-20.5	-19.5	-20.0	0.50
2520.0	15.8	-20.5	-19.5	-20.1	0.50
2550.0	15.8	-20.5	-19.6	-20.2	0.50
2580.0	15.8	-20.5	-19.7	-20.3	0.50
2610.0	15.8	-20.5	-19.8	-20.5	0.50
2640.0	15.8	-20.5	-19.9	-20.7	0.50
2670.0	15.8	-20.5	-20.0	-20.9	0.50
2700.0	15.8	-20.5	-20.1	-21.2	0.50
2730.0	15.8	-20.5	-20.3	-21.4	0.50
2760.0	15.8	-20.5	-20.4	-21.5	0.50
2790.0	15.8	-20.5	-20.5	-21.6	0.50
2820.0	15.8	-20.5	-20.6	-21.6	0.50
2850.0	15.8	-20.5	-20.7	-21.7	0.50
2880.0	15.8	-20.5	-20.7	-21.8	0.50
2910.0	15.8	-20.5	-20.7	-22.0	0.50
2940.0	15.8	-20.5	-20.8	-22.2	0.50
2970.0	15.8	-20.5	-20.9	-22.3	0.50
3000.0	15.8	-20.5	-20.8	-22.4	0.50


Tr1 S21 Log Mag 1.000dB/ Ref 18.00dB [F2 S
>1 20.00000000 MHz 16.272 dB
2 500.0000000 MHz 16.010 dB
3 1.000000000 GHz 16.029 dB
4 2.000000000 GHz 15.827 dB
5 3.000000000 GHz 15.824 dB
mean: 15.892 dB
s.dev: 130.88 mdB
p-p: 550.00 mdB
Tr2 S11 Log Mag 10.00dB/ Ref 0.000dB [F2]
>1 20.00000000 MHz -7.0525 dB
2 500.0000000 MHz -19.215 dB
3 1.000000000 GHz -20.879 dB
4 2.000000000 GHz -17.484 dB
5 3.000000000 GHz -20.891 dB
Tr3 S12 Log Mag 10.00dB/ Ref -20.00dB [F2]
>1 20.00000000 MHz -22.062 dB
2 500.0000000 MHz -20.450 dB
3 1.000000000 GHz -20.322 dB
4 2.000000000 GHz -20.401 dB
5 3.000000000 GHz -20.530 dB
Tr4 S22 Log Mag 10.00dB/ Ref 0.000dB [F2]
>1 20.00000000 MHz -24.434 dB
2 500.0000000 MHz -23.526 dB
3 1.000000000 GHz -21.621 dB
4 2.000000000 GHz -17.794 dB
5 3.000000000 GHz -22.804 dB
1 Start 5 MHz
IFBW 1 kHz
Stop 3 GHz
Cor