

Broadband Amplifier

ZFL-2000G+

Typical Performance Data

Vctrl=0V @ 25°C									
FREQUENCY (MHz)	GAIN (dB) 15V	DIRECTIVITY (dB) 15V	VSWR IN (:1) 15V	VSWR OUT (:1) 15V	NOISE FIGURE (dB) 15V	Pout at 1dB COMP. (dBm) 15V	Pout at 3dB COMP. (dBm) 15V	OUTPUT IP2 (dBm) 15V	OUTPUT IP3 (dBm) 15V
10.0	26.94	20.17	1.20	1.29	10.85	9.41	11.21	46.48	21.68
200.0	27.23	41.29	1.17	1.28	5.93	10.87	12.26	44.28	24.51
400.0	26.93	50.36	1.18	1.48	5.96	11.47	12.44	43.69	24.81
600.0	26.61	43.44	1.20	1.66	6.38	11.44	12.16	39.47	23.25
800.0	26.34	45.20	1.24	1.73	6.46	11.00	11.73	37.49	21.31
1000.0	26.00	46.53	1.27	1.65	6.60	10.28	10.95	34.79	18.94
1200.0	25.53	45.02	1.32	1.52	7.15	9.72	10.40	35.19	17.13
1400.0	24.98	44.13	1.38	1.40	7.35	9.00	9.73	38.65	15.14
1600.0	24.41	42.45	1.48	1.31	7.66	8.05	8.87	50.44	13.09
1800.0	23.77	40.34	1.59	1.23	7.87	7.00	8.03	48.26	11.47
2000.0	22.89	39.16	1.76	1.09	7.84	5.82	7.07	38.41	10.47



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IF/RF MICROWAVE COMPONENTS

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Typical Performance Data

FREQUENCY (MHz)	GAIN @ Vdc=15V & 25°C						FREQUENCY (MHz)	GAIN CONTROL RANGE @ Vdc=15V & 25°C (dB)	FREQUENCY (MHz)	GAIN @ Vdc=15V & Vctrl=0V		
	Vctrl (V) = 0	Vctrl (V) = 1	Vctrl (V) = 2	Vctrl (V) = 3	Vctrl (V) = 4	Vctrl (V) = 5				-20°C	+25°C	+71°C
10.0	26.94	18.45	0.24	-17.79	-32.18	-34.75	10.0	61.70	10.0	27.48	27.09	26.65
20.0	27.30	18.77	0.55	-17.31	-32.45	-34.64	20.0	61.93	20.0	27.77	27.32	26.86
60.0	27.38	18.84	0.65	-17.15	-32.17	-34.42	60.0	61.80	60.0	27.82	27.37	26.93
100.0	27.35	18.80	0.60	-17.17	-32.12	-34.31	100.0	61.66	100.0	27.79	27.34	26.90
140.0	27.31	18.75	0.54	-17.22	-32.06	-34.26	140.0	61.57	140.0	27.74	27.28	26.84
180.0	27.27	18.69	0.47	-17.27	-31.97	-34.10	180.0	61.37	180.0	27.68	27.23	26.79
220.0	27.23	18.62	0.40	-17.35	-31.92	-34.05	220.0	61.28	220.0	27.62	27.17	26.73
260.0	27.17	18.56	0.32	-17.43	-31.89	-34.04	260.0	61.20	260.0	27.55	27.10	26.66
300.0	27.10	18.48	0.23	-17.54	-31.88	-34.01	300.0	61.11	300.0	27.48	27.04	26.59
340.0	27.01	18.39	0.13	-17.65	-31.87	-33.92	340.0	60.93	340.0	27.43	26.97	26.53
380.0	26.93	18.31	0.04	-17.79	-31.88	-33.91	380.0	60.84	380.0	27.36	26.90	26.45
420.0	26.84	18.22	-0.07	-17.95	-31.95	-33.85	420.0	60.70	420.0	27.30	26.84	26.38
460.0	26.78	18.14	-0.18	-18.12	-32.01	-33.87	460.0	60.65	460.0	27.24	26.78	26.32
500.0	26.71	18.07	-0.28	-18.30	-31.99	-33.82	500.0	60.54	500.0	27.18	26.72	26.26
540.0	26.66	18.00	-0.40	-18.49	-31.91	-33.75	540.0	60.41	540.0	27.14	26.68	26.22
580.0	26.61	17.92	-0.52	-18.68	-31.79	-33.53	580.0	60.14	580.0	27.09	26.63	26.17
620.0	26.56	17.84	-0.64	-18.84	-31.58	-33.32	620.0	59.87	620.0	27.06	26.59	26.12
660.0	26.51	17.77	-0.75	-18.95	-31.40	-33.06	660.0	59.57	660.0	27.01	26.54	26.07
700.0	26.45	17.68	-0.88	-19.09	-31.32	-33.01	700.0	59.46	700.0	26.95	26.48	26.00
740.0	26.40	17.59	-1.01	-19.26	-31.41	-33.10	740.0	59.49	740.0	26.91	26.43	25.95
780.0	26.34	17.50	-1.14	-19.48	-31.66	-33.38	780.0	59.71	780.0	26.85	26.37	25.89
820.0	26.27	17.41	-1.29	-19.75	-31.93	-33.67	820.0	59.94	820.0	26.81	26.32	25.83
860.0	26.21	17.32	-1.44	-20.06	-32.23	-33.97	860.0	60.18	860.0	26.76	26.26	25.76
900.0	26.15	17.23	-1.60	-20.40	-32.50	-34.24	900.0	60.39	900.0	26.70	26.19	25.69
940.0	26.08	17.13	-1.77	-20.76	-32.75	-34.46	940.0	60.54	940.0	26.65	26.14	25.61
980.0	26.00	17.02	-1.94	-21.14	-32.95	-34.60	980.0	60.60	980.0	26.59	26.06	25.53
1020.0	25.92	16.92	-2.12	-21.53	-33.10	-34.69	1020.0	60.61	1020.0	26.54	25.99	25.44
1060.0	25.82	16.81	-2.31	-21.94	-33.20	-34.80	1060.0	60.62	1060.0	26.48	25.91	25.35
1100.0	25.74	16.70	-2.50	-22.35	-33.26	-34.84	1100.0	60.58	1100.0	26.42	25.83	25.27
1140.0	25.64	16.58	-2.70	-22.79	-33.35	-34.89	1140.0	60.52	1140.0	26.36	25.75	25.17
1180.0	25.53	16.45	-2.92	-23.23	-33.46	-34.97	1180.0	60.50	1180.0	26.27	25.65	25.05
1220.0	25.43	16.33	-3.13	-23.69	-33.53	-35.05	1220.0	60.47	1220.0	26.20	25.55	24.94
1260.0	25.32	16.20	-3.35	-24.18	-33.63	-35.14	1260.0	60.46	1260.0	26.13	25.46	24.82
1300.0	25.21	16.06	-3.59	-24.67	-33.77	-35.30	1300.0	60.51	1300.0	26.05	25.35	24.70
1340.0	25.09	15.92	-3.82	-25.19	-33.95	-35.44	1340.0	60.54	1340.0	25.96	25.25	24.58
1380.0	24.98	15.78	-4.07	-25.71	-34.10	-35.64	1380.0	60.62	1380.0	25.88	25.14	24.47
1420.0	24.86	15.64	-4.32	-26.28	-34.31	-35.80	1420.0	60.66	1420.0	25.79	25.04	24.35
1460.0	24.73	15.49	-4.58	-26.83	-34.45	-35.98	1460.0	60.71	1460.0	25.70	24.92	24.21
1500.0	24.61	15.33	-4.85	-27.36	-34.64	-36.22	1500.0	60.83	1500.0	25.60	24.81	24.08
1540.0	24.53	15.19	-5.11	-27.94	-35.18	-36.83	1540.0	61.36	1540.0	25.56	24.74	23.98
1580.0	24.41	15.03	-5.40	-28.62	-35.56	-37.30	1580.0	61.71	1580.0	25.47	24.62	23.85
1620.0	24.29	14.87	-5.68	-29.20	-35.86	-37.60	1620.0	61.89	1620.0	25.38	24.51	23.73
1660.0	24.17	14.71	-5.96	-29.87	-36.25	-38.07	1660.0	62.23	1660.0	25.28	24.40	23.60
1700.0	24.04	14.54	-6.26	-30.48	-36.57	-38.49	1700.0	62.53	1700.0	25.18	24.28	23.48
1740.0	23.90	14.37	-6.56	-31.06	-36.83	-38.88	1740.0	62.78	1740.0	25.08	24.16	23.34
1780.0	23.77	14.19	-6.86	-31.63	-37.14	-39.14	1780.0	62.91	1780.0	24.98	24.03	23.19
1820.0	23.63	14.02	-7.18	-32.17	-37.36	-39.45	1820.0	63.08	1820.0	24.88	23.91	23.04
1860.0	23.49	13.84	-7.49	-32.63	-37.62	-39.72	1860.0	63.20	1860.0	24.77	23.78	22.89
1900.0	23.35	13.65	-7.81	-33.05	-37.74	-39.87	1900.0	63.21	1900.0	24.66	23.65	22.76
1940.0	23.20	13.46	-8.15	-33.44	-37.88	-40.07	1940.0	63.26	1940.0	24.52	23.50	22.61
1980.0	23.04	13.27	-8.49	-33.70	-37.91	-40.04	1980.0	63.08	1980.0	24.39	23.35	22.46
2000.0	22.89	13.07	-8.84	-33.96	-37.91	-40.00	2000.0	62.88	2000.0	24.25	23.21	22.30



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