

Broadband Amplifier

ZFL-2000GH+

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	33.86	13.91	1.21	1.50	6.21	15.17	16.74	51.99	31.32
50.0	34.34	19.18	1.17	1.26	5.24	15.73	16.79	50.30	32.59
100.0	34.36	37.95	1.15	1.25	4.86	16.01	17.13	51.13	33.86
200.0	34.31	53.92	1.12	1.34	4.92	16.35	17.49	54.02	33.33
300.0	34.00	42.75	1.14	1.43	4.55	16.99	17.95	56.51	32.84
400.0	33.65	41.32	1.17	1.51	4.68	17.30	17.82	54.99	31.09
500.0	33.42	41.56	1.21	1.55	4.81	17.51	17.89	52.37	29.62
600.0	33.27	47.04	1.24	1.57	4.86	17.57	17.92	53.34	28.70
700.0	33.10	36.80	1.26	1.57	5.04	17.60	17.98	53.06	27.84
800.0	32.93	53.89	1.27	1.53	4.92	17.40	17.76	52.99	26.78
900.0	32.74	38.42	1.29	1.49	4.83	17.40	17.75	53.53	25.72
1000.0	32.52	36.54	1.31	1.44	4.81	16.81	17.70	52.46	24.53
1100.0	32.25	39.49	1.33	1.38	5.16	16.70	17.02	53.92	23.89
1200.0	31.95	35.67	1.35	1.33	4.99	16.27	16.58	55.74	22.97
1300.0	31.60	38.81	1.37	1.29	5.46	15.74	16.10	63.83	22.18
1400.0	31.30	38.09	1.45	1.27	5.30	15.31	15.69	61.31	21.32
1500.0	31.03	32.55	1.47	1.21	5.26	14.82	15.23	55.40	20.24
1600.0	30.72	35.47	1.55	1.18	5.32	14.33	14.79	51.28	19.39
1700.0	30.43	33.70	1.63	1.16	5.41	14.03	14.48	48.40	18.47
1800.0	30.12	31.20	1.71	1.15	5.54	13.39	13.93	45.16	17.38
1900.0	29.81	31.63	1.79	1.15	5.59	12.81	13.40	43.04	16.21
2000.0	29.47	34.79	1.84	1.16	5.66	12.25	12.93	40.39	15.14



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IF/RF MICROWAVE COMPONENTS

REV. OR
 ZFL-2000GH+
 11/11/2014
 Page 1 of 2

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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	33.86	25.79	7.79	-9.53	-24.37	-26.29	10.0	60.15	10.0	34.77	34.34	33.76
50.0	34.34	26.21	8.21	-9.19	-23.46	-25.89	50.0	60.23	50.0	34.97	34.52	34.06
100.0	34.36	26.17	8.12	-9.24	-23.59	-25.77	100.0	60.12	100.0	34.90	34.46	33.98
200.0	34.31	26.01	7.90	-9.44	-23.49	-25.60	200.0	59.91	200.0	34.66	34.18	33.68
300.0	34.00	25.73	7.63	-9.73	-23.50	-25.50	300.0	59.49	300.0	34.40	33.91	33.41
400.0	33.65	25.41	7.30	-10.15	-23.67	-25.58	400.0	59.22	400.0	34.10	33.63	33.15
500.0	33.42	25.15	6.95	-10.67	-23.85	-25.63	500.0	59.05	500.0	33.92	33.48	33.01
600.0	33.27	24.91	6.59	-11.22	-23.68	-25.31	600.0	58.58	600.0	33.76	33.33	32.84
700.0	33.10	24.64	6.22	-11.63	-23.31	-24.89	700.0	57.99	700.0	33.66	33.21	32.70
800.0	32.93	24.38	5.83	-12.17	-23.66	-25.23	800.0	58.16	800.0	33.56	33.06	32.53
900.0	32.74	24.11	5.42	-12.94	-24.30	-25.87	900.0	58.61	900.0	33.39	32.85	32.30
1000.0	32.52	23.83	4.99	-13.82	-24.76	-26.27	1000.0	58.79	1000.0	33.20	32.64	32.06
1100.0	32.25	23.53	4.53	-14.77	-24.95	-26.37	1100.0	58.62	1100.0	32.98	32.38	31.76
1200.0	31.95	23.20	4.04	-15.78	-25.01	-26.38	1200.0	58.32	1200.0	32.77	32.12	31.44
1300.0	31.60	22.85	3.52	-16.81	-25.01	-26.35	1300.0	57.96	1300.0	32.52	31.8	31.07
1400.0	31.30	22.49	2.97	-17.98	-25.35	-26.73	1400.0	58.03	1400.0	32.29	31.55	30.81
1500.0	31.03	22.14	2.39	-19.33	-25.82	-27.28	1500.0	58.31	1500.0	32.12	31.32	30.52
1600.0	30.72	21.75	1.78	-20.69	-26.16	-27.69	1600.0	58.41	1600.0	31.87	31.02	30.20
1700.0	30.43	21.36	1.16	-22.08	-26.55	-28.19	1700.0	58.62	1700.0	31.64	30.76	29.93
1800.0	30.12	20.96	0.51	-23.42	-27.00	-28.72	1800.0	58.84	1800.0	31.36	30.47	29.65
1900.0	29.81	20.55	-0.17	-24.64	-27.34	-29.18	1900.0	58.98	1900.0	31.07	30.18	29.38
2000.0	29.47	20.12	-0.90	-25.58	-27.67	-29.59	2000.0	59.06	2000.0	30.73	29.86	29.10



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 Page 2 of 2