

Digital Variable Gain Amplifier

DVGA2-33+

Typical Performance Data

TEST CONDITIONS: Vd1 = +3V, Vd2 = +5V @ Temperature = +25degC

FREQ	GAIN @ 0dB Step	STEP ATTENUATION @							Output IP3 @ 0dB Step	Pout at 1dB Comp @ 0dB Step	Noise Figure @ 0dB Step
		0.5 dB	1.0 dB	2 dB	4 dB	8 dB	16 dB	31.5 dB			
(MHz)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dBm)	(dBm)	(dB)
50.0	20.31	0.51	1.01	2.01	4.01	7.93	15.94	31.47	32.76	17.25	4.94
60.0	20.23	0.48	1.00	2.00	3.99	7.91	15.89	31.40	31.24	16.45	4.80
70.0	20.10	0.49	1.00	2.00	3.99	7.91	15.90	31.40	32.24	17.20	4.96
80.0	20.03	0.49	1.01	1.99	3.98	7.90	15.89	31.40	31.83	16.74	5.00
90.0	19.99	0.48	1.00	1.99	3.98	7.90	15.88	31.38	31.90	17.21	5.21
100.0	19.94	0.48	1.00	1.99	3.97	7.89	15.88	31.37	32.09	17.26	4.89
200.0	19.78	0.48	1.00	1.99	3.97	7.89	15.88	31.38	31.98	17.35	4.91
300.0	19.69	0.48	1.00	1.99	3.98	7.90	15.88	31.34	31.87	17.10	4.98
400.0	19.61	0.48	1.00	2.01	4.00	7.91	15.87	31.34	32.36	17.21	5.03
500.0	19.49	0.48	1.00	2.02	4.01	7.91	15.85	31.33	31.57	17.11	5.08
600.0	19.37	0.49	1.00	2.03	4.02	7.92	15.84	31.33	31.89	17.07	5.12
700.0	19.29	0.49	1.00	2.05	4.04	7.93	15.85	31.26	30.94	16.72	5.17
800.0	19.20	0.48	1.00	2.05	4.05	7.94	15.84	31.20	31.28	16.54	5.30
900.0	19.17	0.48	1.00	2.06	4.05	7.93	15.82	31.11	31.76	16.96	5.27
1000.0	19.11	0.48	0.99	2.06	4.05	7.92	15.80	31.03	30.15	16.48	5.31
1100.0	19.03	0.48	1.00	2.06	4.04	7.92	15.78	30.94	31.57	16.72	5.42
1200.0	18.96	0.47	1.00	2.05	4.03	7.91	15.77	30.84	31.52	17.05	5.39
1300.0	18.87	0.48	1.00	2.05	4.03	7.90	15.77	30.74	31.34	16.99	5.51
1400.0	18.78	0.48	1.01	2.05	4.02	7.90	15.76	30.65	31.14	16.95	5.49
1500.0	18.70	0.48	1.01	2.05	4.02	7.89	15.77	30.56	31.58	17.12	5.57
1600.0	18.61	0.47	1.01	2.04	4.01	7.89	15.77	30.48	31.75	17.52	5.59
1700.0	18.49	0.48	1.02	2.04	4.01	7.89	15.78	30.39	31.73	17.76	5.57
1800.0	18.38	0.48	1.02	2.04	4.01	7.90	15.79	30.32	31.23	17.55	5.63
1900.0	18.23	0.48	1.03	2.05	4.01	7.90	15.80	30.25	31.57	17.81	5.64
2000.0	18.07	0.49	1.04	2.06	4.03	7.93	15.83	30.19	30.95	17.68	5.57
2200.0	17.72	0.49	1.04	2.09	4.07	7.99	15.90	30.11	30.61	17.45	5.67
2400.0	17.31	0.50	1.05	2.14	4.14	8.07	16.00	30.11	30.47	17.14	5.67
2600.0	16.61	0.52	1.08	2.23	4.26	8.22	16.18	30.20	29.85	16.90	5.78
2800.0	16.32	0.55	1.09	2.28	4.31	8.29	16.34	30.27	29.86	16.61	6.07
3000.0	15.43	0.59	1.09	2.31	4.31	8.31	16.49	30.48	29.84	16.72	6.52



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Digital Variable Gain Amplifier

DVGA2-33+

Typical Performance Data

TEST CONDITIONS: Vd1 = +3V, Vd2 = +5V @ Temperature = -40degC

FREQ	GAIN @ 0dB Step	STEP ATTENUATION @							Output IP3 @ 0dB Step	Pout at 1dB Comp @ 0dB Step	Noise Figure @ 0dB Step
		0.5 dB	1.0 dB	2 dB	4 dB	8 dB	16 dB	31.5 dB			
(MHz)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dBm)	(dBm)	(dB)
50.0	20.69	0.52	1.04	2.03	4.05	8.02	16.02	31.69	33.17	17.07	3.99
60.0	20.64	0.51	1.03	2.04	4.05	8.00	15.99	31.63	31.82	16.29	3.97
70.0	20.51	0.51	1.04	2.03	4.04	8.00	16.00	31.63	32.59	17.01	3.98
80.0	20.44	0.51	1.04	2.03	4.03	7.99	15.99	31.61	32.33	16.54	4.06
90.0	20.40	0.51	1.04	2.02	4.03	7.99	15.98	31.60	32.64	17.02	4.26
100.0	20.35	0.51	1.04	2.02	4.02	7.98	15.97	31.59	32.43	17.07	4.07
200.0	20.20	0.51	1.03	2.02	4.02	7.98	15.98	31.58	32.68	17.17	4.03
300.0	20.12	0.51	1.03	2.03	4.03	7.98	15.98	31.55	32.09	16.97	4.44
400.0	20.06	0.50	1.03	2.03	4.04	7.99	15.96	31.54	32.93	17.12	4.07
500.0	19.95	0.51	1.03	2.04	4.06	8.00	15.96	31.52	32.13	17.06	4.08
600.0	19.85	0.52	1.04	2.06	4.07	8.02	15.96	31.54	32.44	17.05	4.09
700.0	19.81	0.52	1.04	2.07	4.09	8.04	15.98	31.48	31.59	16.73	4.17
800.0	19.70	0.51	1.04	2.09	4.12	8.06	15.99	31.44	31.72	16.57	4.23
900.0	19.71	0.51	1.04	2.10	4.13	8.08	15.99	31.36	32.17	17.04	4.24
1000.0	19.68	0.51	1.04	2.11	4.14	8.08	15.98	31.28	30.79	16.50	4.28
1100.0	19.62	0.51	1.04	2.11	4.14	8.08	15.97	31.18	32.05	16.73	4.38
1200.0	19.55	0.51	1.05	2.12	4.14	8.07	15.96	31.11	32.16	17.12	4.33
1300.0	19.44	0.51	1.05	2.11	4.13	8.06	15.94	30.96	31.83	17.06	4.46
1400.0	19.38	0.51	1.05	2.11	4.13	8.06	15.93	30.83	31.94	17.00	4.44
1500.0	19.29	0.51	1.05	2.11	4.13	8.05	15.93	30.71	32.00	17.17	4.55
1600.0	19.22	0.51	1.05	2.11	4.12	8.06	15.94	30.67	32.49	17.60	4.53
1700.0	19.15	0.51	1.06	2.11	4.12	8.06	15.95	30.56	32.55	17.99	4.51
1800.0	19.08	0.51	1.07	2.12	4.14	8.08	15.98	30.48	32.22	17.83	4.58
1900.0	18.96	0.51	1.07	2.13	4.14	8.09	16.00	30.34	32.26	18.17	4.56
2000.0	18.82	0.51	1.08	2.13	4.16	8.12	16.04	30.35	32.03	18.14	4.47
2200.0	18.50	0.52	1.09	2.17	4.22	8.20	16.14	30.26	31.58	18.00	4.57
2400.0	18.18	0.54	1.12	2.23	4.30	8.31	16.28	30.20	31.68	17.82	4.54
2600.0	17.30	0.55	1.14	2.31	4.41	8.45	16.44	30.24	30.83	17.61	4.63
2800.0	17.29	0.59	1.18	2.39	4.50	8.57	16.67	30.31	31.22	17.53	4.89
3000.0	16.46	0.63	1.18	2.40	4.49	8.59	16.80	30.41	31.13	17.71	5.31



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Digital Variable Gain Amplifier

DVGA2-33+

Typical Performance Data

TEST CONDITIONS: Vd1 = +3V, Vd2 = +5V @ Temperature = +85degC

FREQ	GAIN @ 0dB Step	STEP ATTENUATION @							Output IP3 @ 0dB Step	Pout at 1dB Comp @ 0dB Step	Noise Figure @ 0dB Step
		0.5 dB	1.0 dB	2 dB	4 dB	8 dB	16 dB	31.5 dB			
(MHz)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dBm)	(dBm)	(dB)
50.0	19.98	0.48	0.99	1.98	3.96	7.85	15.82	31.27	32.03	17.31	5.50
60.0	19.92	0.47	0.99	1.99	3.97	7.85	15.82	31.23	31.35	16.54	5.47
70.0	19.79	0.47	0.99	1.99	3.96	7.85	15.83	31.23	31.76	17.27	5.57
80.0	19.72	0.47	0.99	1.98	3.96	7.85	15.82	31.21	31.53	16.82	5.57
90.0	19.67	0.47	0.99	1.98	3.95	7.85	15.82	31.19	31.71	17.28	5.65
100.0	19.63	0.47	0.99	1.98	3.95	7.84	15.81	31.19	31.63	17.33	5.60
200.0	19.46	0.47	0.99	1.98	3.95	7.84	15.82	31.18	31.70	17.44	5.71
300.0	19.36	0.47	0.99	1.99	3.96	7.85	15.82	31.18	31.79	17.16	5.77
400.0	19.26	0.47	0.99	2.00	3.98	7.86	15.80	31.16	32.27	17.22	5.69
500.0	19.14	0.47	0.98	2.01	3.99	7.86	15.77	31.15	31.18	17.11	5.73
600.0	19.00	0.48	0.98	2.02	3.99	7.86	15.75	31.13	31.58	17.00	5.78
700.0	18.92	0.47	0.98	2.03	4.01	7.87	15.75	31.07	30.69	16.64	5.85
800.0	18.83	0.47	0.98	2.04	4.01	7.87	15.73	31.00	30.68	16.48	6.00
900.0	18.78	0.47	0.97	2.04	4.01	7.86	15.71	30.92	31.15	16.88	5.98
1000.0	18.70	0.46	0.98	2.04	4.00	7.84	15.68	30.82	29.62	16.43	6.05
1100.0	18.62	0.46	0.98	2.03	3.99	7.83	15.67	30.73	31.11	16.65	6.14
1200.0	18.53	0.46	0.98	2.03	3.98	7.82	15.66	30.66	31.25	16.99	6.11
1300.0	18.42	0.46	0.99	2.03	3.98	7.81	15.66	30.59	31.02	16.94	6.28
1400.0	18.32	0.47	0.99	2.02	3.96	7.80	15.65	30.48	30.68	16.89	6.23
1500.0	18.21	0.47	1.00	2.02	3.95	7.80	15.66	30.39	31.18	17.04	6.33
1600.0	18.02	0.47	1.01	2.01	3.94	7.80	15.67	30.43	31.31	17.41	6.41
1700.0	17.98	0.47	1.01	2.02	3.95	7.80	15.69	30.29	31.28	17.51	6.32
1800.0	17.87	0.47	1.02	2.02	3.95	7.82	15.70	30.21	30.90	17.31	6.38
1900.0	17.70	0.47	1.02	2.01	3.95	7.82	15.71	30.17	30.88	17.41	6.40
2000.0	17.52	0.47	1.02	2.03	3.96	7.83	15.73	30.11	30.45	17.22	6.32
2200.0	17.15	0.48	1.03	2.07	4.01	7.90	15.81	30.09	29.85	16.92	6.43
2400.0	16.69	0.49	1.04	2.11	4.07	7.95	15.87	30.06	29.38	16.50	6.48
2600.0	15.98	0.51	1.05	2.19	4.16	8.07	16.01	30.17	29.07	16.16	6.63
2800.0	15.63	0.55	1.07	2.26	4.24	8.17	16.21	30.40	28.90	15.82	6.92
3000.0	14.65	0.57	1.07	2.28	4.25	8.20	16.37	30.71	28.76	15.88	7.34

Typical Performance Data

TEST CONDITIONS: Vd1 = +3V, Vd2 = +5V @ Temperature = +25degC

FREQ	INPUT RETURN LOSS @							
	0 dB	0.5 dB	1 dB	2 dB	4 dB	8 dB	16 dB	31.5 dB
(MHz)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)
50.0	13.66	14.71	16.13	15.69	18.26	22.51	35.74	45.53
60.0	14.42	16.23	16.74	17.09	19.36	22.76	32.63	58.11
70.0	16.00	17.33	18.47	18.01	19.95	22.67	31.82	53.90
80.0	17.20	18.58	19.76	18.81	20.52	22.84	31.74	53.71
90.0	18.22	19.77	20.83	19.51	20.98	23.09	31.73	54.79
100.0	19.24	20.90	22.01	20.07	21.35	23.27	32.10	51.78
200.0	22.85	25.51	26.60	21.54	22.04	23.30	31.44	48.41
300.0	21.21	23.31	24.23	20.70	21.67	23.08	31.56	46.14
400.0	18.86	20.58	21.47	19.46	20.62	22.56	30.69	43.51
500.0	16.97	18.53	19.34	18.16	19.64	21.92	30.08	40.43
600.0	16.03	17.60	18.35	17.50	19.13	21.59	29.64	36.92
700.0	15.03	16.47	17.24	16.80	18.60	21.26	29.23	34.80
800.0	14.18	15.54	16.35	16.13	18.03	20.91	28.66	32.83
900.0	13.81	15.14	15.93	15.80	17.76	20.64	27.96	30.79
1000.0	13.57	14.87	15.64	15.58	17.52	20.35	27.12	28.99
1100.0	13.55	14.86	15.60	15.61	17.51	20.19	26.10	26.98
1200.0	13.72	15.03	15.74	15.78	17.61	20.11	25.20	25.26
1300.0	14.17	15.50	16.15	16.24	18.00	20.23	24.34	23.83
1400.0	14.78	16.17	16.73	16.87	18.51	20.36	23.41	22.51
1500.0	15.59	17.03	17.46	17.64	19.10	20.42	22.42	21.33
1600.0	16.58	18.11	18.27	18.64	19.86	20.42	21.38	20.17
1700.0	17.59	19.11	18.86	19.69	20.46	20.28	20.32	18.99
1800.0	18.41	19.92	19.27	20.61	20.94	20.04	19.33	17.96
1900.0	18.91	20.20	19.11	21.08	20.91	19.53	18.33	17.04
2000.0	18.89	19.90	18.60	21.01	20.54	18.88	17.41	16.18
2200.0	18.61	19.29	17.80	20.29	19.36	17.63	15.77	14.70
2400.0	18.58	18.92	17.39	19.40	18.11	16.43	14.40	13.53
2600.0	19.40	19.53	17.74	18.98	17.22	15.40	13.30	12.58
2800.0	21.14	19.41	18.01	17.51	15.82	14.30	12.30	11.75
3000.0	19.33	17.13	16.87	15.34	14.21	13.18	11.49	11.12

Typical Performance Data

TEST CONDITIONS: Vd1 = +3V, Vd2 = +5V @ Temperature = -40degC

FREQ	INPUT RETURN LOSS @							
	0 dB	0.5 dB	1 dB	2 dB	4 dB	8 dB	16 dB	31.5 dB
(MHz)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)
50.0	13.67	14.53	16.81	17.61	20.84	35.03	30.63	23.54
60.0	15.24	16.56	17.67	18.02	21.59	29.22	30.57	24.49
70.0	16.46	17.83	19.08	19.74	23.29	30.57	30.09	25.08
80.0	17.80	19.24	20.45	20.88	24.30	31.35	30.02	25.28
90.0	19.16	20.72	21.96	21.90	25.15	31.83	30.20	25.16
100.0	20.42	22.09	23.48	22.91	25.98	32.95	30.17	25.18
200.0	27.20	32.58	36.94	26.55	28.41	33.03	30.49	25.59
300.0	24.10	27.10	28.34	25.01	27.30	31.93	29.62	25.18
400.0	20.78	22.83	23.91	22.83	25.38	30.01	28.90	24.82
500.0	18.46	20.36	21.30	21.01	23.73	28.72	28.85	24.68
600.0	17.36	19.29	20.21	20.12	22.91	27.66	28.38	24.51
700.0	16.16	17.86	18.81	19.11	21.89	26.37	27.10	23.84
800.0	15.20	16.83	17.81	18.27	21.22	25.66	25.94	23.07
900.0	14.91	16.56	17.56	18.04	21.08	25.49	25.48	22.67
1000.0	14.53	16.18	17.19	17.72	20.67	24.82	24.93	22.36
1100.0	14.40	16.06	17.04	17.60	20.47	24.00	23.83	21.60
1200.0	14.62	16.32	17.27	17.87	20.61	23.38	22.50	20.56
1300.0	14.68	16.37	17.31	17.95	20.55	22.77	21.69	19.94
1400.0	15.15	16.90	17.78	18.49	20.93	22.41	20.86	19.22
1500.0	15.75	17.56	18.34	19.08	21.16	21.72	19.89	18.40
1600.0	16.37	18.23	18.77	19.61	21.15	20.92	18.98	17.62
1700.0	17.28	19.18	19.41	20.47	21.36	20.14	17.89	16.65
1800.0	17.83	19.74	19.58	20.94	21.13	19.33	16.93	15.78
1900.0	18.43	20.16	19.55	21.12	20.59	18.46	16.01	14.99
2000.0	18.35	19.89	18.96	20.68	19.69	17.55	15.24	14.27
2200.0	18.31	19.27	18.02	19.55	18.05	15.94	13.71	12.91
2400.0	18.81	19.37	17.74	18.83	16.93	14.81	12.57	11.89
2600.0	18.83	19.22	17.46	17.96	15.85	13.80	11.62	11.03
2800.0	23.27	20.65	18.53	17.52	15.08	13.01	10.84	10.34
3000.0	20.27	17.25	16.63	15.09	13.51	11.95	10.06	9.68

Typical Performance Data

TEST CONDITIONS: Vd1 = +3V, Vd2 = +5V @ Temperature = +85degC

FREQ	INPUT RETURN LOSS @							
	0 dB	0.5 dB	1 dB	2 dB	4 dB	8 dB	16 dB	31.5 dB
(MHz)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)
50.0	13.35	14.89	14.87	14.76	17.53	18.99	23.79	28.02
60.0	14.49	15.56	16.50	15.81	16.87	18.57	22.72	26.67
70.0	15.50	16.73	17.63	16.68	17.85	19.23	23.66	28.23
80.0	16.49	17.79	18.67	17.25	18.21	19.43	23.67	28.21
90.0	17.42	18.71	19.65	17.72	18.39	19.41	23.57	27.90
100.0	18.23	19.63	20.46	18.13	18.69	19.55	23.68	28.16
200.0	20.73	22.46	23.10	19.13	19.31	19.78	23.87	28.47
300.0	19.29	20.96	21.56	18.48	18.85	19.59	23.74	28.16
400.0	17.29	18.64	19.26	17.28	17.91	18.98	22.97	26.85
500.0	15.67	16.92	17.53	16.20	17.08	18.40	22.52	26.26
600.0	14.79	16.07	16.67	15.62	16.66	18.18	22.28	25.82
700.0	13.93	15.11	15.71	15.03	16.24	17.92	22.08	25.42
800.0	13.19	14.31	14.96	14.47	15.79	17.62	21.88	24.95
900.0	12.82	13.89	14.53	14.14	15.48	17.36	21.56	24.29
1000.0	12.64	13.69	14.30	13.98	15.31	17.16	21.15	23.55
1100.0	12.74	13.78	14.35	14.10	15.39	17.15	21.05	22.92
1200.0	13.20	14.29	14.81	14.55	15.79	17.44	21.07	22.51
1300.0	13.72	14.80	15.26	15.02	16.16	17.56	20.84	21.71
1400.0	14.51	15.67	16.09	15.83	16.83	17.97	20.83	21.24
1500.0	15.74	16.98	17.17	16.98	17.79	18.56	20.91	20.73
1600.0	16.83	18.06	17.84	18.04	18.48	18.64	20.15	19.55
1700.0	17.56	18.78	18.21	18.72	19.02	18.80	19.89	19.05
1800.0	18.31	19.46	18.57	19.61	19.72	19.05	19.46	18.41
1900.0	18.88	19.89	18.69	20.42	20.33	19.26	19.01	17.75
2000.0	18.61	19.47	18.11	20.60	20.32	19.04	18.40	17.05
2200.0	18.10	18.66	17.34	20.17	19.87	18.50	17.13	15.85
2400.0	18.06	18.38	17.01	19.56	18.95	17.63	15.83	14.76
2600.0	18.58	18.68	17.22	19.14	17.84	16.52	14.56	13.69
2800.0	20.18	19.10	17.88	17.91	16.62	15.45	13.49	12.86
3000.0	19.27	17.48	17.29	15.85	14.91	14.20	12.61	12.23

Typical Performance Data

TEST CONDITIONS: Vd1 = +3V, Vd2 = +5V @ Temperature = +25degC

FREQ	OUTPUT RETURN LOSS @							
	0 dB	0.5 dB	1 dB	2 dB	4 dB	8 dB	16 dB	31.5 dB
(MHz)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)
50.0	25.14	24.48	24.78	21.81	19.99	19.63	20.84	17.15
60.0	28.46	27.61	27.89	23.84	21.72	21.55	23.33	18.66
70.0	33.58	32.98	33.16	26.85	23.72	23.30	25.43	19.75
80.0	35.57	37.20	37.11	29.03	25.10	24.58	27.18	20.54
90.0	35.96	40.35	39.66	30.60	26.04	25.52	28.59	21.12
100.0	34.69	40.45	39.30	32.22	26.85	26.23	29.66	21.51
200.0	29.44	30.94	30.73	29.17	25.92	25.45	28.16	21.42
300.0	26.80	27.23	27.17	25.07	23.01	22.64	24.45	19.72
400.0	24.91	24.85	24.86	22.39	20.75	20.48	22.01	18.15
500.0	23.18	22.99	23.00	20.43	19.03	18.84	20.25	16.85
600.0	21.27	20.92	21.09	18.77	17.60	17.53	18.86	15.79
700.0	20.18	19.79	19.96	17.81	16.75	16.69	17.92	15.05
800.0	19.19	18.79	18.96	16.96	15.99	15.95	17.09	14.41
900.0	18.76	18.33	18.50	16.54	15.60	15.57	16.66	14.05
1000.0	18.68	18.24	18.40	16.44	15.51	15.48	16.52	13.95
1100.0	19.03	18.53	18.68	16.66	15.68	15.65	16.62	14.07
1200.0	19.82	19.25	19.38	17.19	16.12	16.04	16.94	14.38
1300.0	21.30	20.57	20.65	18.14	16.89	16.74	17.55	14.92
1400.0	23.51	22.52	22.53	19.47	17.95	17.71	18.44	15.66
1500.0	26.21	24.94	24.88	20.96	19.10	18.75	19.48	16.44
1600.0	28.86	28.14	28.07	22.67	20.34	19.88	20.71	17.20
1700.0	27.92	30.22	30.68	24.30	21.56	21.00	22.22	17.88
1800.0	24.44	27.03	27.64	23.69	21.33	20.88	22.79	17.77
1900.0	21.67	23.68	24.14	21.94	20.24	19.95	22.36	17.18
2000.0	19.94	21.51	21.81	20.07	18.68	18.45	20.73	16.10
2200.0	18.07	19.24	19.22	17.36	16.02	15.63	17.17	13.82
2400.0	18.29	19.04	18.63	16.18	14.52	13.85	14.70	12.17
2600.0	19.77	18.80	18.11	15.54	13.76	12.86	12.96	11.35
2800.0	18.48	17.09	16.52	14.35	12.71	11.79	11.76	10.40
3000.0	17.14	15.77	15.49	14.04	12.70	11.81	11.58	10.54

Typical Performance Data

TEST CONDITIONS: Vd1 = +3V, Vd2 = +5V @ Temperature = -40degC

FREQ	OUTPUT RETURN LOSS @							
	0 dB	0.5 dB	1 dB	2 dB	4 dB	8 dB	16 dB	31.5 dB
(MHz)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)
50.0	24.91	24.20	24.01	20.85	18.67	17.85	18.36	15.58
60.0	28.30	26.97	26.97	22.49	20.14	19.41	20.18	16.85
70.0	33.96	32.51	32.20	25.08	21.77	20.74	21.57	17.73
80.0	36.52	37.36	36.93	26.78	22.83	21.66	22.60	18.35
90.0	37.12	42.32	41.94	27.87	23.52	22.29	23.35	18.79
100.0	35.66	46.08	47.60	28.94	24.10	22.76	23.87	19.08
200.0	29.37	31.13	31.38	27.63	23.91	22.75	23.92	19.26
300.0	26.27	27.01	27.12	24.73	22.17	21.24	22.21	18.36
400.0	24.21	24.45	24.48	22.22	20.27	19.55	20.38	17.21
500.0	22.85	22.83	22.73	20.28	18.59	17.99	18.74	16.01
600.0	21.04	20.78	20.79	18.54	17.13	16.67	17.39	14.97
700.0	20.16	19.82	19.85	17.70	16.39	15.96	16.64	14.34
800.0	19.32	18.93	18.93	16.86	15.62	15.20	15.81	13.69
900.0	18.53	18.14	18.13	16.12	14.93	14.52	15.10	13.07
1000.0	18.12	17.69	17.68	15.68	14.52	14.13	14.68	12.70
1100.0	18.18	17.71	17.68	15.63	14.44	14.04	14.57	12.60
1200.0	18.61	18.12	18.05	15.86	14.59	14.14	14.63	12.64
1300.0	19.42	18.84	18.71	16.31	14.91	14.39	14.82	12.77
1400.0	20.05	19.43	19.29	16.73	15.24	14.68	15.11	13.01
1500.0	21.12	20.50	20.30	17.40	15.73	15.08	15.49	13.30
1600.0	21.99	21.49	21.29	18.06	16.20	15.46	15.86	13.54
1700.0	22.12	22.08	21.89	18.49	16.50	15.70	16.15	13.71
1800.0	21.61	21.98	21.83	18.49	16.44	15.59	16.07	13.58
1900.0	20.60	21.45	21.39	18.35	16.33	15.44	15.98	13.43
2000.0	19.29	20.14	20.11	17.48	15.62	14.78	15.34	12.92
2200.0	17.40	18.04	17.85	15.61	13.91	13.09	13.53	11.52
2400.0	17.22	17.32	16.84	14.41	12.64	11.72	11.94	10.29
2600.0	19.58	18.02	17.25	14.81	12.95	11.87	11.61	10.48
2800.0	15.94	14.69	14.10	12.20	10.64	9.67	9.48	8.50
3000.0	14.76	13.50	13.11	11.79	10.50	9.60	9.29	8.53

Typical Performance Data

TEST CONDITIONS: Vd1 = +3V, Vd2 = +5V @ Temperature = +85degC

FREQ	OUTPUT RETURN LOSS @							
	0 dB	0.5 dB	1 dB	2 dB	4 dB	8 dB	16 dB	31.5 dB
(MHz)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)
50.0	25.21	24.71	25.00	22.56	20.95	21.01	22.78	18.36
60.0	28.51	27.91	28.42	24.69	22.93	23.26	25.94	20.09
70.0	33.26	33.03	33.19	28.08	25.25	25.45	28.90	21.38
80.0	34.95	36.46	35.86	30.69	26.93	27.18	31.75	22.35
90.0	35.24	38.41	36.86	32.76	28.17	28.54	34.62	23.08
100.0	34.08	37.93	36.02	35.11	29.30	29.66	37.56	23.59
200.0	29.19	30.54	29.99	30.48	27.78	27.88	31.09	23.35
300.0	26.99	27.28	27.16	25.33	23.61	23.57	25.60	20.70
400.0	25.21	25.03	25.14	22.48	21.07	21.11	23.06	18.78
500.0	23.35	23.12	23.34	20.63	19.43	19.56	21.48	17.51
600.0	21.32	20.98	21.34	18.99	18.02	18.25	20.08	16.45
700.0	19.95	19.60	19.95	17.87	17.03	17.28	18.95	15.61
800.0	19.06	18.72	19.05	17.15	16.40	16.67	18.21	15.08
900.0	18.76	18.40	18.74	16.90	16.19	16.48	17.94	14.91
1000.0	18.87	18.48	18.82	17.02	16.32	16.63	17.99	15.05
1100.0	19.55	19.09	19.41	17.55	16.79	17.09	18.29	15.45
1200.0	20.99	20.35	20.65	18.59	17.68	17.91	18.87	16.10
1300.0	23.11	22.16	22.42	20.06	18.95	19.10	19.75	17.07
1400.0	27.13	25.40	25.46	22.30	20.75	20.75	20.95	18.34
1500.0	35.82	31.14	30.82	25.87	23.42	23.18	22.72	20.01
1600.0	35.81	41.78	38.56	32.95	27.78	27.14	25.59	22.03
1700.0	27.16	30.55	31.35	33.30	29.68	30.22	30.04	23.43
1800.0	23.12	25.54	26.22	26.92	26.29	27.62	37.78	22.54
1900.0	20.46	22.29	22.80	22.89	22.83	23.79	32.62	20.50
2000.0	18.89	20.50	20.91	20.40	20.10	20.74	26.15	18.38
2200.0	17.55	18.87	19.07	17.76	17.00	17.10	19.98	15.24
2400.0	18.48	19.52	19.36	17.02	15.66	15.31	16.96	13.50
2600.0	21.58	20.99	20.32	17.27	15.41	14.62	15.08	12.86
2800.0	20.75	19.47	18.91	16.28	14.53	13.66	13.85	12.02
3000.0	19.30	17.91	17.64	15.90	14.48	13.64	13.61	12.16