

Digital Variable Gain Amplifier

DVGA2-33A+

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	20.50	0.52	1.02	2.01	4.01	7.96	15.93	31.36	31.70	16.55	4.75
60	20.37	0.52	1.02	2.00	3.99	7.94	15.92	31.33	31.98	16.73	5.15
70	20.28	0.52	1.02	1.99	3.98	7.93	15.90	31.32	32.17	17.03	4.94
80	20.22	0.52	1.02	1.99	3.97	7.92	15.90	31.30	31.80	16.99	4.79
90	20.17	0.52	1.02	1.99	3.97	7.92	15.89	31.29	31.66	16.90	4.67
100	20.14	0.52	1.02	1.98	3.96	7.91	15.89	31.29	31.96	17.26	4.73
200	19.96	0.52	1.02	1.98	3.96	7.91	15.88	31.27	31.91	17.13	4.71
300	19.87	0.52	1.01	1.99	3.96	7.91	15.87	31.27	32.41	17.23	4.74
400	19.79	0.52	1.02	2.00	3.98	7.92	15.87	31.28	32.96	17.33	4.79
500	19.68	0.52	1.02	2.01	3.99	7.93	15.87	31.27	31.24	16.66	4.84
600	19.60	0.52	1.01	2.01	3.99	7.93	15.86	31.25	31.78	16.95	4.98
700	19.48	0.52	1.01	2.02	4.00	7.93	15.85	31.24	31.53	16.85	5.01
800	19.36	0.52	1.01	2.02	4.00	7.94	15.85	31.23	31.60	16.90	5.03
900	19.33	0.52	1.01	2.02	4.00	7.93	15.84	31.22	31.55	16.96	5.01
1000	19.27	0.52	1.01	2.03	4.00	7.93	15.83	31.18	30.08	16.41	5.08
1100	19.21	0.52	1.01	2.03	4.00	7.94	15.84	31.17	30.91	16.74	5.12
1200	19.13	0.52	1.01	2.02	3.99	7.93	15.83	31.15	31.12	16.79	5.16
1300	19.06	0.52	1.01	2.02	3.99	7.94	15.85	31.13	31.40	17.27	5.22
1400	18.97	0.52	1.02	2.02	3.99	7.94	15.86	31.12	31.13	17.26	5.27
1500	18.85	0.52	1.01	2.01	3.97	7.93	15.85	31.09	31.18	17.28	5.32
1600	18.74	0.52	1.02	2.01	3.97	7.93	15.86	31.07	31.62	17.62	5.37
1700	18.57	0.53	1.03	2.00	3.97	7.94	15.89	31.08	31.31	17.42	5.34
1800	18.50	0.53	1.04	2.00	3.97	7.95	15.91	31.08	31.85	17.90	5.30
1900	18.33	0.54	1.04	2.00	3.97	7.96	15.94	31.10	31.58	17.94	5.32
2000	18.14	0.54	1.05	1.99	3.96	7.96	15.95	31.10	31.35	18.03	5.35
2200	17.74	0.55	1.06	2.00	3.98	8.01	16.03	31.16	30.80	17.75	5.34
2400	17.32	0.56	1.08	2.03	4.02	8.09	16.16	31.27	30.01	16.97	5.32
2600	16.63	0.57	1.11	2.08	4.10	8.23	16.33	31.39	29.53	16.49	5.32
2800	16.53	0.59	1.13	2.14	4.19	8.39	16.53	31.49	29.33	16.39	5.35
3000	16.14	0.61	1.16	2.21	4.30	8.57	16.73	31.52	28.97	16.09	5.35



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Digital Variable Gain Amplifier

DVGA2-33A+

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	20.86	0.54	1.05	2.05	4.07	8.09	16.03	31.60	32.22	16.41	4.11
60	20.73	0.54	1.05	2.04	4.05	8.06	16.01	31.56	32.06	16.58	4.14
70	20.63	0.54	1.05	2.03	4.03	8.05	15.99	31.54	32.43	16.86	3.85
80	20.57	0.53	1.04	2.02	4.03	8.04	15.98	31.53	32.46	16.81	3.99
90	20.52	0.53	1.04	2.02	4.02	8.03	15.97	31.52	31.89	16.72	3.87
100	20.49	0.53	1.04	2.02	4.02	8.03	15.97	31.50	32.28	17.08	4.16
200	20.33	0.53	1.04	2.02	4.01	8.02	15.96	31.50	32.34	16.92	3.89
300	20.25	0.53	1.04	2.02	4.01	8.02	15.95	31.48	32.57	17.12	3.96
400	20.19	0.54	1.05	2.03	4.02	8.03	15.96	31.48	33.57	17.32	3.95
500	20.10	0.54	1.05	2.04	4.04	8.04	15.96	31.48	31.71	16.60	3.94
600	20.03	0.54	1.05	2.05	4.05	8.06	15.96	31.47	32.25	16.95	4.04
700	19.93	0.54	1.05	2.06	4.06	8.06	15.96	31.47	32.20	16.89	4.09
800	19.79	0.54	1.04	2.06	4.07	8.07	15.96	31.47	32.34	16.95	4.16
900	19.80	0.54	1.05	2.07	4.07	8.08	15.96	31.45	32.31	17.05	4.13
1000	19.75	0.54	1.04	2.07	4.08	8.08	15.96	31.42	30.79	16.48	4.15
1100	19.70	0.54	1.05	2.08	4.08	8.10	15.98	31.41	31.54	16.79	4.18
1200	19.63	0.54	1.05	2.08	4.08	8.10	15.97	31.39	31.55	16.84	4.27
1300	19.56	0.54	1.05	2.08	4.08	8.10	15.98	31.37	32.14	17.35	4.29
1400	19.48	0.54	1.05	2.08	4.08	8.10	15.99	31.34	31.72	17.34	4.35
1500	19.39	0.54	1.05	2.07	4.07	8.10	15.99	31.32	32.05	17.39	4.40
1600	19.28	0.55	1.06	2.07	4.06	8.10	15.99	31.28	32.27	17.79	4.47
1700	19.17	0.55	1.06	2.07	4.07	8.12	16.02	31.27	32.23	17.64	4.39
1800	19.10	0.55	1.07	2.07	4.08	8.13	16.05	31.27	32.73	18.23	4.37
1900	18.96	0.56	1.08	2.07	4.08	8.15	16.08	31.27	32.66	18.34	4.41
2000	18.79	0.56	1.09	2.08	4.09	8.17	16.12	31.27	32.21	18.55	4.44
2200	18.45	0.57	1.10	2.09	4.12	8.24	16.22	31.33	31.81	18.32	4.39
2400	18.07	0.58	1.13	2.12	4.17	8.35	16.37	31.40	31.10	17.59	4.34
2600	17.21	0.60	1.16	2.17	4.25	8.48	16.54	31.49	30.39	17.06	4.34
2800	17.39	0.63	1.21	2.26	4.40	8.73	16.84	31.68	30.41	17.24	4.33
3000	17.01	0.65	1.23	2.33	4.50	8.90	17.02	31.66	30.06	16.98	4.30



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Digital Variable Gain Amplifier

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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	20.15	0.51	1.00	1.99	3.97	7.88	15.86	31.16	31.26	16.63	5.84
60	20.02	0.51	1.00	1.98	3.95	7.87	15.85	31.15	31.69	16.83	5.51
70	19.93	0.51	1.00	1.97	3.95	7.86	15.85	31.14	31.88	17.11	5.61
80	19.87	0.51	1.00	1.97	3.94	7.85	15.84	31.11	31.59	17.08	5.80
90	19.82	0.51	1.00	1.96	3.94	7.85	15.84	31.11	31.34	17.02	5.49
100	19.79	0.51	1.00	1.96	3.93	7.84	15.83	31.12	31.58	17.37	5.42
200	19.61	0.51	1.00	1.96	3.93	7.84	15.82	31.10	31.66	17.30	5.44
300	19.51	0.51	1.00	1.97	3.94	7.85	15.82	31.10	32.00	17.35	5.56
400	19.40	0.51	1.00	1.98	3.95	7.85	15.82	31.10	32.71	17.36	5.57
500	19.28	0.50	0.99	1.99	3.96	7.85	15.80	31.09	30.87	16.66	5.66
600	19.18	0.50	0.99	1.99	3.96	7.85	15.78	31.07	31.26	16.92	5.75
700	19.05	0.50	0.98	1.99	3.96	7.85	15.77	31.05	30.96	16.81	5.81
800	18.95	0.50	0.98	1.99	3.96	7.84	15.75	31.03	31.09	16.86	5.87
900	18.89	0.50	0.98	1.99	3.95	7.83	15.74	31.01	31.13	16.90	5.89
1000	18.82	0.50	0.98	1.99	3.95	7.83	15.74	30.99	29.64	16.38	5.94
1100	18.75	0.50	0.98	1.99	3.95	7.84	15.75	30.97	30.53	16.71	5.97
1200	18.67	0.50	0.98	1.99	3.94	7.84	15.75	30.96	30.74	16.79	6.05
1300	18.59	0.50	0.99	1.99	3.94	7.84	15.77	30.95	30.98	17.24	6.12
1400	18.49	0.51	1.00	1.98	3.94	7.85	15.79	30.96	30.55	17.19	6.15
1500	18.38	0.51	1.00	1.98	3.93	7.85	15.80	30.95	30.88	17.18	6.17
1600	18.23	0.51	1.01	1.96	3.91	7.83	15.80	30.93	31.01	17.43	6.27
1700	18.07	0.52	1.01	1.96	3.92	7.85	15.83	30.95	30.87	17.20	6.20
1800	17.94	0.52	1.02	1.96	3.90	7.84	15.84	30.94	31.21	17.57	6.16
1900	17.76	0.52	1.02	1.95	3.90	7.84	15.86	30.96	30.90	17.50	6.20
2000	17.54	0.53	1.03	1.94	3.88	7.83	15.86	30.96	30.56	17.53	6.22
2200	17.08	0.53	1.03	1.94	3.88	7.85	15.90	31.01	30.08	17.18	6.26
2400	16.60	0.54	1.04	1.96	3.91	7.90	15.99	31.11	29.15	16.32	6.23
2600	15.99	0.55	1.06	2.01	3.98	8.02	16.14	31.24	28.68	15.80	6.32
2800	15.73	0.56	1.08	2.06	4.06	8.16	16.31	31.37	28.56	15.57	6.33
3000	15.24	0.57	1.10	2.12	4.15	8.30	16.46	31.36	28.19	15.26	6.38



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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	13.19	14.36	15.50	16.33	18.91	23.34	40.97	39.05
60	14.05	16.08	17.22	17.83	20.05	23.95	41.58	39.00
70	14.89	17.60	18.77	19.04	20.94	24.40	41.96	39.38
80	15.67	19.01	20.23	20.17	21.65	24.72	41.63	39.42
90	16.34	20.31	21.61	21.05	22.23	24.93	41.77	39.25
100	17.08	21.48	22.82	21.78	22.60	25.03	41.63	39.61
200	17.72	27.30	29.35	23.87	23.35	24.95	39.22	41.58
300	18.33	23.62	24.98	22.09	22.13	24.17	36.83	41.12
400	18.96	20.44	21.62	20.13	20.83	23.25	34.57	39.07
500	19.50	18.15	19.15	18.40	19.45	22.22	32.28	35.78
600	20.06	16.65	17.61	17.15	18.39	21.32	30.25	32.54
700	24.16	15.45	16.35	16.11	17.46	20.46	28.48	29.93
800	25.11	14.50	15.37	15.26	16.67	19.72	26.92	27.68
900	23.75	14.01	14.83	14.74	16.14	19.10	25.51	25.69
1000	22.11	13.66	14.43	14.37	15.72	18.60	24.16	23.93
1100	20.54	13.52	14.26	14.17	15.46	18.19	23.01	22.34
1200	19.22	13.51	14.18	14.08	15.26	17.84	21.89	20.92
1300	18.00	13.58	14.19	14.06	15.15	17.50	20.82	19.65
1400	17.03	13.75	14.27	14.13	15.08	17.21	19.85	18.50
1500	16.22	13.96	14.37	14.23	15.05	16.94	18.93	17.48
1600	15.62	14.08	14.36	14.29	14.98	16.65	18.07	16.54
1700	15.03	13.68	13.87	13.96	14.65	16.21	17.25	15.72
1800	14.46	13.65	13.77	13.94	14.56	15.93	16.54	14.99
1900	13.95	13.24	13.29	13.63	14.27	15.53	15.84	14.31
2000	13.55	12.76	12.77	13.27	13.93	15.12	15.19	13.71
2200	13.36	11.96	11.96	12.68	13.41	14.43	14.07	12.71
2400	13.08	11.50	11.47	12.33	13.06	13.85	13.15	11.92
2600	12.91	11.21	11.19	12.20	12.97	13.52	12.49	11.40
2800	12.77	11.71	11.61	12.69	13.27	13.33	12.00	11.06
3000	12.67	11.98	11.87	13.03	13.56	13.26	11.73	10.91

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	13.30	14.55	15.75	17.22	21.01	29.81	26.20	23.38
60	14.17	16.32	17.51	18.92	22.64	31.52	26.20	23.47
70	15.05	17.91	19.12	20.45	24.03	33.12	26.35	23.60
80	15.84	19.41	20.64	21.83	25.29	34.52	26.45	23.73
90	16.59	20.84	22.11	23.10	26.48	36.01	26.61	23.80
100	17.34	22.20	23.54	24.24	27.33	37.07	26.76	23.91
200	18.03	33.50	40.32	29.35	29.87	36.75	27.43	24.40
300	18.73	26.32	27.38	26.03	27.37	31.98	26.04	23.45
400	19.39	22.49	23.49	23.41	25.47	30.78	25.56	22.99
500	20.03	19.92	21.04	21.17	23.52	29.62	26.29	23.48
600	20.64	18.05	19.18	19.30	21.58	27.33	27.32	24.12
700	26.10	16.41	17.48	17.68	19.89	24.94	27.27	24.12
800	28.61	15.19	16.19	16.47	18.59	23.24	26.03	23.26
900	26.96	14.72	15.67	15.93	17.94	22.09	24.55	22.11
1000	24.69	14.33	15.21	15.50	17.42	21.26	23.21	21.04
1100	22.74	14.06	14.92	15.18	17.01	20.54	22.09	20.05
1200	21.19	13.93	14.73	14.96	16.65	19.81	20.98	19.11
1300	19.76	13.88	14.61	14.81	16.34	19.13	19.93	18.15
1400	18.64	13.92	14.57	14.72	16.07	18.46	18.90	17.23
1500	17.60	13.92	14.45	14.58	15.72	17.65	17.81	16.25
1600	16.81	13.82	14.22	14.34	15.32	16.85	16.72	15.30
1700	16.00	13.59	13.88	14.07	14.94	16.24	15.88	14.50
1800	15.26	13.51	13.72	13.96	14.70	15.73	15.15	13.83
1900	14.62	13.09	13.24	13.54	14.23	15.11	14.42	13.18
2000	14.09	12.65	12.76	13.15	13.80	14.53	13.74	12.57
2200	13.84	12.02	12.07	12.58	13.20	13.68	12.70	11.65
2400	13.66	11.44	11.45	12.05	12.57	12.78	11.68	10.74
2600	13.47	10.75	10.80	11.54	12.11	12.17	10.94	10.12
2800	13.31	11.61	11.52	12.22	12.46	11.92	10.45	9.73
3000	13.14	12.02	11.92	12.64	12.72	11.83	10.21	9.56

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	12.99	14.08	15.09	15.36	16.90	19.16	24.64	28.26
60	13.79	15.66	16.70	16.59	17.77	19.54	24.77	28.37
70	14.58	17.07	18.05	17.58	18.36	19.79	24.89	28.34
80	15.29	18.31	19.37	18.42	18.86	19.99	25.00	28.53
90	15.96	19.44	20.49	19.10	19.25	20.16	25.13	28.67
100	16.62	20.40	21.48	19.59	19.49	20.25	25.17	28.78
200	17.20	24.27	25.34	21.00	20.09	20.48	25.39	29.11
300	17.74	21.35	22.24	19.49	19.08	19.78	24.39	27.75
400	18.29	18.54	19.36	17.68	17.77	18.80	23.07	25.99
500	18.76	16.43	17.21	16.16	16.59	17.91	22.04	24.56
600	19.22	15.07	15.81	15.09	15.72	17.23	21.29	23.47
700	22.41	14.04	14.75	14.26	15.03	16.71	20.72	22.64
800	23.03	13.33	14.01	13.63	14.49	16.29	20.22	21.85
900	21.83	12.90	13.55	13.21	14.09	15.88	19.64	20.93
1000	20.33	12.68	13.28	12.97	13.81	15.58	19.13	20.05
1100	18.87	12.68	13.23	12.91	13.68	15.40	18.69	19.23
1200	17.58	12.84	13.35	12.99	13.69	15.33	18.35	18.51
1300	16.46	13.11	13.56	13.16	13.77	15.30	18.02	17.83
1400	15.57	13.48	13.83	13.45	13.94	15.36	17.78	17.23
1500	14.83	13.87	14.11	13.74	14.13	15.44	17.52	16.68
1600	14.26	14.08	14.20	13.94	14.26	15.48	17.24	16.15
1700	13.74	13.86	13.93	13.85	14.20	15.45	16.93	15.64
1800	13.26	13.89	13.86	13.97	14.33	15.51	16.67	15.20
1900	12.88	13.49	13.43	13.76	14.21	15.42	16.33	14.75
2000	12.56	13.00	12.93	13.47	14.03	15.30	15.96	14.32
2200	12.37	12.13	12.07	12.94	13.70	15.03	15.25	13.58
2400	12.15	11.58	11.52	12.61	13.50	14.77	14.53	12.95
2600	12.02	11.23	11.18	12.45	13.47	14.63	13.96	12.54
2800	11.97	11.47	11.40	12.80	13.77	14.55	13.51	12.29
3000	11.92	11.86	11.77	13.33	14.26	14.65	13.24	12.20

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	24.21	23.60	23.41	20.31	19.16	18.42	19.08	16.63
60	26.21	27.26	27.00	22.63	21.17	20.18	21.06	17.99
70	28.20	30.78	30.34	24.41	22.62	21.46	22.45	18.96
80	30.18	34.62	33.94	25.88	23.70	22.44	23.53	19.65
90	32.29	38.59	37.43	26.87	24.44	23.04	24.31	20.09
100	34.62	42.03	40.31	27.49	24.91	23.49	24.77	20.37
200	37.05	29.42	29.28	25.61	23.88	22.91	24.11	20.11
300	39.53	24.86	24.79	22.48	21.40	20.80	21.70	18.64
400	43.48	22.15	22.11	20.22	19.42	19.05	19.83	17.25
500	48.94	20.04	20.00	18.37	17.77	17.50	18.21	15.99
600	55.08	18.84	18.83	17.32	16.81	16.62	17.33	15.23
700	34.75	17.98	17.99	16.54	16.12	15.99	16.67	14.68
800	29.52	17.06	17.10	15.75	15.40	15.33	15.98	14.11
900	27.00	16.64	16.71	15.38	15.06	15.00	15.65	13.80
1000	25.21	16.63	16.71	15.34	15.02	14.95	15.58	13.75
1100	23.60	16.87	16.98	15.54	15.23	15.15	15.78	13.92
1200	22.49	17.50	17.61	16.05	15.72	15.60	16.19	14.28
1300	21.33	18.28	18.45	16.76	16.40	16.25	16.80	14.80
1400	20.32	19.25	19.46	17.67	17.29	17.11	17.62	15.48
1500	19.64	20.11	20.44	18.69	18.33	18.18	18.67	16.23
1600	19.07	19.91	20.33	19.06	18.93	18.99	19.62	16.84
1700	18.57	19.85	20.38	19.50	19.57	19.78	20.42	17.35
1800	18.19	17.85	18.38	18.23	18.65	19.49	20.54	17.04
1900	17.68	16.67	17.15	17.28	17.86	18.97	20.16	16.57
2000	17.22	15.53	15.99	16.20	16.79	17.97	19.16	15.79
2200	17.05	14.15	14.49	14.58	14.97	15.85	16.66	13.99
2400	16.80	13.82	14.08	13.86	13.91	14.32	14.76	12.59
2600	16.69	15.48	15.48	14.43	13.82	13.39	13.27	11.80
2800	16.75	14.68	14.54	13.32	12.56	12.02	11.81	10.56
3000	16.78	14.82	14.54	13.06	12.16	11.47	11.18	10.22

Digital Variable Gain Amplifier

DVGA2-33A+

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	24.29	23.21	22.72	19.39	17.87	16.74	16.94	15.01
60	26.35	26.76	26.02	21.38	19.53	18.12	18.39	16.13
70	28.43	29.91	28.81	22.81	20.62	19.07	19.32	16.84
80	30.27	32.72	31.24	23.79	21.35	19.67	19.99	17.29
90	32.44	34.68	32.85	24.37	21.80	20.05	20.36	17.57
100	34.43	35.52	33.49	24.65	22.01	20.22	20.55	17.71
200	36.81	29.13	28.83	23.92	21.78	20.21	20.58	17.79
300	38.66	25.30	25.19	22.59	20.97	19.74	20.08	17.48
400	41.01	22.21	22.12	20.35	19.18	18.24	18.56	16.37
500	42.52	20.06	19.89	18.28	17.34	16.62	16.88	15.06
600	42.58	18.69	18.56	17.06	16.27	15.69	15.97	14.28
700	33.99	17.67	17.55	16.12	15.43	14.94	15.23	13.64
800	29.87	16.75	16.67	15.33	14.72	14.29	14.59	13.10
900	27.48	16.30	16.22	14.92	14.36	13.96	14.26	12.77
1000	25.46	15.98	15.93	14.66	14.10	13.71	13.99	12.53
1100	23.68	15.81	15.76	14.49	13.95	13.56	13.83	12.37
1200	22.40	15.96	15.92	14.60	14.04	13.63	13.87	12.39
1300	21.37	16.23	16.20	14.85	14.28	13.83	14.05	12.54
1400	20.38	16.67	16.67	15.28	14.69	14.22	14.41	12.84
1500	19.62	17.08	17.14	15.81	15.21	14.71	14.88	13.20
1600	19.02	16.91	17.04	15.93	15.41	14.98	15.14	13.39
1700	18.43	17.06	17.24	16.27	15.77	15.31	15.45	13.62
1800	17.97	15.99	16.22	15.54	15.22	14.90	15.08	13.26
1900	17.57	15.45	15.70	15.28	15.02	14.80	14.95	13.10
2000	17.03	14.77	15.02	14.71	14.52	14.35	14.52	12.72
2200	16.82	13.82	14.03	13.76	13.53	13.34	13.41	11.80
2400	16.55	13.32	13.43	13.00	12.59	12.21	12.15	10.76
2600	16.34	15.83	15.65	14.31	13.27	12.29	11.92	10.92
2800	16.19	13.41	13.14	11.91	10.94	10.09	9.76	8.92
3000	16.04	13.42	13.01	11.55	10.47	9.53	9.15	8.49



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	24.12	23.66	23.71	21.03	20.28	19.90	21.13	18.13
60	26.02	27.42	27.49	23.64	22.54	22.11	23.63	19.81
70	27.93	30.99	31.16	25.70	24.44	23.91	25.75	21.07
80	29.74	35.00	35.06	27.66	26.00	25.34	27.66	22.08
90	31.81	40.04	40.30	29.19	27.23	26.47	29.29	22.74
100	33.84	48.91	49.11	30.42	28.12	27.30	30.61	23.25
200	36.21	29.29	29.30	27.44	26.35	26.00	28.01	22.78
300	38.55	24.51	24.54	22.64	21.95	21.85	23.07	19.75
400	41.50	21.86	21.87	20.06	19.57	19.57	20.69	17.83
500	44.94	19.82	19.92	18.30	17.98	18.09	19.21	16.61
600	49.15	18.65	18.78	17.30	17.09	17.30	18.41	15.92
700	34.38	17.80	17.96	16.59	16.44	16.68	17.78	15.43
800	29.13	17.14	17.34	16.04	15.95	16.22	17.29	15.04
900	26.69	16.99	17.21	15.90	15.85	16.13	17.17	14.98
1000	24.85	17.32	17.55	16.18	16.16	16.42	17.42	15.26
1100	23.28	18.11	18.39	16.84	16.81	17.07	17.98	15.83
1200	22.12	19.37	19.69	17.90	17.85	18.00	18.83	16.66
1300	20.87	21.09	21.50	19.33	19.23	19.30	19.99	17.73
1400	19.97	22.97	23.63	21.05	20.99	21.03	21.53	19.08
1500	19.35	24.10	25.12	22.81	23.05	23.35	23.66	20.63
1600	18.77	22.93	23.89	23.20	24.27	25.94	26.61	22.11
1700	18.30	21.38	22.24	22.50	24.06	27.28	29.12	22.59
1800	17.87	18.59	19.26	19.94	21.60	25.81	31.67	21.74
1900	17.45	16.95	17.53	18.23	19.73	23.43	28.55	20.25
2000	17.15	15.68	16.20	16.76	18.03	21.13	24.90	18.60
2200	17.09	14.17	14.58	14.89	15.74	17.84	20.04	15.81
2400	16.97	13.98	14.31	14.27	14.76	16.13	17.45	14.16
2600	17.05	15.30	15.46	14.70	14.59	14.98	15.36	13.15
2800	17.29	15.19	15.21	14.13	13.71	13.73	13.82	12.03
3000	17.57	15.85	15.70	14.25	13.59	13.27	13.11	11.75