

Typical Performance Data

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Vd = 5.00V, Id = 68mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
1000	28.96	52.36	3.95	17.77	4.35	1.38	24.83	13.28	1.87
1100	30.17	49.93	3.89	17.90	2.90	1.37	25.66	14.05	1.58
1200	31.06	50.25	3.97	15.68	2.72	1.35	26.81	14.41	1.40
1300	31.61	48.01	4.16	13.71	2.08	1.29	27.06	14.57	1.22
1400	31.91	45.64	4.51	12.28	1.61	1.22	27.77	14.88	1.11
1500	32.01	44.30	4.92	11.39	1.44	1.15	28.17	15.25	0.99
1600	31.99	45.26	5.39	10.76	1.64	1.12	28.44	15.44	0.90
1700	31.81	43.30	5.93	10.41	1.43	1.05	28.49	15.28	0.84
1800	31.62	43.07	6.47	10.21	1.45	1.03	28.73	15.17	0.78
1900	31.36	41.74	6.97	10.16	1.37	0.98	28.97	15.32	0.72
2000	31.11	43.55	7.44	10.07	1.68	1.00	29.10	15.39	0.68
2100	30.83	42.11	7.87	10.09	1.53	0.97	29.28	15.06	0.69
2200	30.55	40.72	8.40	10.15	1.41	0.93	29.09	15.15	0.61
2300	30.29	40.83	8.76	10.16	1.48	0.93	29.42	15.50	0.63
2400	30.02	40.80	9.14	10.25	1.53	0.93	28.97	15.30	0.62
2500	29.76	39.29	9.49	10.29	1.39	0.89	28.67	14.82	0.59
2600	29.52	39.60	9.75	10.35	1.46	0.90	28.17	14.76	0.63
2700	29.27	40.10	10.02	10.37	1.58	0.91	28.06	14.98	0.65
2800	29.07	39.90	10.23	10.38	1.59	0.90	27.77	14.79	0.64
2900	28.86	39.09	10.41	10.41	1.50	0.89	28.04	15.00	0.65
3000	28.68	39.60	10.65	10.47	1.62	0.90	27.72	14.82	0.71
3100	28.52	39.17	10.80	10.43	1.58	0.89	27.41	14.57	0.64
3200	28.37	39.19	10.95	10.51	1.61	0.90	27.13	14.12	0.69
3300	28.24	38.70	10.98	10.50	1.56	0.89	27.28	14.28	0.65
3400	28.14	39.21	10.98	10.54	1.65	0.90	26.89	14.27	0.68
3500	28.01	39.04	10.92	10.62	1.65	0.90	26.42	14.12	0.69
3600	27.89	38.83	10.90	10.66	1.63	0.90	26.42	13.75	0.73
3700	27.76	38.34	10.87	10.81	1.59	0.90	26.11	13.60	0.70
3800	27.66	39.69	10.75	10.88	1.82	0.93	25.68	13.19	0.71
3900	27.56	39.09	10.71	11.08	1.74	0.92	25.62	12.97	0.68
4000	27.47	38.47	10.63	11.28	1.66	0.92	25.60	13.25	0.73
4100	27.38	39.42	10.59	11.48	1.84	0.94	25.04	12.88	0.73
4200	27.30	38.73	10.45	11.68	1.73	0.93	24.80	12.64	0.75
4300	27.23	39.19	10.30	11.99	1.83	0.95	24.91	12.64	0.76
4400	27.13	38.61	10.27	12.38	1.75	0.95	24.32	12.30	0.78
4500	27.06	39.32	10.12	12.78	1.90	0.97	23.97	12.00	0.81
4600	26.96	38.69	10.11	13.26	1.81	0.97	23.95	12.04	0.82
4700	26.87	39.07	10.08	13.78	1.90	0.98	23.35	11.51	0.83
4800	26.77	38.87	10.09	14.39	1.90	0.99	23.77	11.58	0.83
4900	26.68	38.81	10.01	15.19	1.91	0.99	23.62	11.53	0.84
5000	26.54	38.49	9.99	16.13	1.89	1.00	23.36	11.52	0.88
5100	26.43	38.54	10.04	17.13	1.93	1.01	22.68	11.05	0.92
5200	26.29	38.60	10.09	18.57	1.98	1.01	23.28	11.53	0.94
5300	26.13	38.46	10.21	20.04	1.99	1.02	22.98	11.30	0.94
5400	25.96	39.01	10.37	21.54	2.16	1.03	22.39	10.99	0.97
5500	25.78	39.05	10.55	23.14	2.22	1.03	21.78	10.34	1.00
5600	25.62	38.94	10.70	25.36	2.24	1.03	22.53	10.89	1.04
5700	25.42	38.40	10.96	27.43	2.17	1.02	22.31	10.62	1.05
5800	25.21	38.89	11.29	26.02	2.34	1.03	22.20	10.63	1.11
5900	24.99	38.67	11.60	23.91	2.35	1.02	22.50	10.92	1.10
6000	24.75	39.74	12.01	21.44	2.71	1.02	22.08	10.67	1.16

Note: Test data of Die packaged in industry standard, 3x3mm, 12-lead MCLP package



Typical Performance Data

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Vd = 4.75V, Id = 65mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
1000	28.74	50.70	3.90	17.77	3.66	1.38	24.22	12.91	1.89
1100	29.97	50.83	3.85	17.93	3.25	1.38	25.04	13.57	1.58
1200	30.87	48.66	3.90	15.68	2.29	1.36	26.18	14.05	1.40
1300	31.44	48.74	4.09	13.70	2.22	1.31	26.35	14.20	1.24
1400	31.75	46.32	4.40	12.28	1.74	1.23	27.05	14.41	1.13
1500	31.86	46.05	4.83	11.37	1.71	1.19	27.58	14.79	1.00
1600	31.84	44.25	5.27	10.78	1.48	1.12	27.92	14.86	0.90
1700	31.67	43.61	5.82	10.43	1.45	1.08	27.87	14.82	0.84
1800	31.48	42.19	6.35	10.26	1.33	1.03	28.03	14.71	0.80
1900	31.23	41.45	6.82	10.19	1.35	0.98	28.40	14.86	0.72
2000	30.98	41.19	7.35	10.16	1.35	0.97	28.34	14.93	0.68
2100	30.70	40.73	7.76	10.16	1.36	0.95	28.70	14.60	0.68
2200	30.42	41.15	8.28	10.27	1.49	0.95	28.30	14.69	0.62
2300	30.16	39.75	8.58	10.26	1.35	0.92	28.46	14.92	0.63
2400	29.90	40.26	9.01	10.37	1.45	0.93	28.11	14.72	0.59
2500	29.63	39.64	9.39	10.41	1.45	0.91	27.65	14.36	0.61
2600	29.40	40.60	9.61	10.49	1.62	0.93	27.28	14.30	0.64
2700	29.14	40.11	9.92	10.53	1.60	0.92	27.63	14.51	0.65
2800	28.93	39.52	10.13	10.50	1.55	0.91	26.60	14.21	0.66
2900	28.72	39.05	10.34	10.55	1.53	0.89	27.40	14.42	0.66
3000	28.55	39.44	10.54	10.65	1.62	0.90	27.16	14.35	0.71
3100	28.39	39.00	10.71	10.62	1.58	0.90	26.71	13.98	0.65
3200	28.23	39.31	10.87	10.66	1.65	0.91	26.44	13.65	0.71
3300	28.10	39.28	10.90	10.66	1.67	0.91	26.66	13.81	0.65
3400	27.99	38.84	10.90	10.71	1.62	0.90	26.11	13.79	0.70
3500	27.87	38.81	10.93	10.82	1.65	0.90	25.79	13.52	0.71
3600	27.74	39.14	10.83	10.83	1.71	0.91	25.71	13.15	0.73
3700	27.61	39.29	10.82	10.98	1.77	0.92	25.43	13.00	0.70
3800	27.51	38.78	10.72	11.13	1.70	0.92	24.96	12.82	0.71
3900	27.40	38.95	10.68	11.32	1.75	0.92	24.71	12.48	0.70
4000	27.32	39.49	10.62	11.48	1.86	0.94	24.81	12.75	0.72
4100	27.22	38.48	10.57	11.71	1.71	0.93	24.44	12.39	0.75
4200	27.14	38.71	10.44	11.91	1.76	0.94	24.18	12.14	0.76
4300	27.06	39.16	10.31	12.21	1.86	0.96	24.22	12.03	0.77
4400	26.95	38.55	10.30	12.58	1.79	0.95	23.72	11.69	0.80
4500	26.88	38.93	10.18	12.98	1.87	0.96	23.27	11.50	0.79
4600	26.78	38.76	10.14	13.51	1.87	0.97	23.35	11.53	0.81
4700	26.69	39.02	10.14	14.02	1.94	0.98	22.78	11.11	0.83
4800	26.58	38.37	10.10	14.67	1.85	0.98	23.20	11.08	0.83
4900	26.48	38.66	10.08	15.47	1.93	0.99	23.04	11.02	0.87
5000	26.34	39.25	10.09	16.30	2.09	1.01	22.80	11.01	0.89
5100	26.22	38.77	10.16	17.41	2.02	1.01	22.13	10.42	0.91
5200	26.07	38.79	10.22	18.66	2.07	1.02	22.72	11.00	0.98
5300	25.91	38.84	10.34	20.09	2.13	1.02	22.45	10.88	0.98
5400	25.74	39.05	10.52	21.46	2.22	1.03	21.88	10.47	0.98
5500	25.56	38.33	10.74	22.82	2.12	1.02	21.39	9.81	1.01
5600	25.39	38.99	10.91	24.15	2.31	1.03	22.08	10.48	1.02
5700	25.19	38.67	11.10	25.43	2.29	1.02	21.80	10.31	1.06
5800	24.98	39.03	11.44	24.24	2.44	1.02	21.68	10.10	1.12
5900	24.76	39.06	11.83	22.45	2.51	1.02	22.00	10.61	1.12
6000	24.52	39.01	12.24	20.62	2.57	1.01	21.69	10.24	1.17

Note: Test data of Die packaged in industry standard, 3x3mm, 12-lead MCLP package



Typical Performance Data

Definitions:

Input Return Loss = -S11 (dB)
 Gain(Power Gain) = S21 (dB)
 Reverse Isolation = -S12 (dB)
 Output Return Loss = -S22 (dB)

TEST CONDITIONS: Vd = 5.25V, Id = 70mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
1000	29.14	51.73	3.97	17.70	4.00	1.37	25.35	13.77	1.86
1100	30.35	50.27	3.96	17.95	2.97	1.37	26.11	14.43	1.57
1200	31.22	49.83	4.05	15.71	2.59	1.34	27.22	14.89	1.38
1300	31.77	48.89	4.24	13.74	2.25	1.29	27.42	15.03	1.21
1400	32.05	45.72	4.60	12.29	1.60	1.22	28.01	15.34	1.11
1500	32.14	45.44	5.04	11.36	1.60	1.16	28.52	15.71	1.00
1600	32.11	42.90	5.51	10.82	1.31	1.08	28.91	15.78	0.89
1700	31.93	43.98	6.05	10.42	1.50	1.07	28.82	15.73	0.82
1800	31.73	42.29	6.56	10.17	1.36	1.00	29.13	15.72	0.78
1900	31.47	41.88	7.08	10.08	1.36	0.98	29.46	15.77	0.72
2000	31.22	41.92	7.59	10.03	1.44	0.96	29.52	15.83	0.66
2100	30.94	41.32	8.01	10.02	1.42	0.94	29.82	15.50	0.69
2200	30.66	41.24	8.51	10.11	1.46	0.94	29.47	15.59	0.61
2300	30.39	41.15	8.89	10.10	1.52	0.93	30.01	15.94	0.62
2400	30.13	40.60	9.23	10.17	1.48	0.92	29.57	15.74	0.61
2500	29.87	39.70	9.62	10.23	1.42	0.89	28.94	15.26	0.57
2600	29.64	39.40	9.90	10.24	1.43	0.88	28.64	15.31	0.62
2700	29.38	39.80	10.13	10.27	1.52	0.90	28.07	15.54	0.64
2800	29.18	39.72	10.34	10.28	1.54	0.90	28.75	15.23	0.63
2900	28.97	39.30	10.48	10.30	1.52	0.89	28.57	15.45	0.64
3000	28.80	39.83	10.72	10.38	1.63	0.90	28.28	15.27	0.69
3100	28.64	39.42	10.85	10.33	1.59	0.89	28.07	15.01	0.63
3200	28.48	39.47	11.04	10.37	1.63	0.90	27.92	14.69	0.69
3300	28.36	38.86	11.07	10.38	1.57	0.88	27.94	14.85	0.64
3400	28.26	39.87	11.05	10.42	1.74	0.90	27.62	14.96	0.66
3500	28.13	39.88	11.01	10.48	1.76	0.91	27.01	14.46	0.68
3600	28.01	39.08	10.93	10.52	1.65	0.90	26.96	14.20	0.72
3700	27.89	38.86	10.88	10.65	1.64	0.90	26.75	14.06	0.71
3800	27.79	38.73	10.81	10.82	1.64	0.90	26.38	13.65	0.70
3900	27.69	39.03	10.74	10.94	1.70	0.92	26.08	13.55	0.68
4000	27.61	38.69	10.65	11.10	1.67	0.91	26.24	13.83	0.70
4100	27.52	38.96	10.60	11.32	1.74	0.92	25.71	13.35	0.72
4200	27.45	38.96	10.47	11.53	1.74	0.93	25.47	13.11	0.73
4300	27.38	39.78	10.31	11.84	1.90	0.96	25.62	13.01	0.75
4400	27.28	38.85	10.25	12.18	1.76	0.95	25.07	12.78	0.79
4500	27.21	38.37	10.16	12.57	1.70	0.95	24.60	12.48	0.81
4600	27.11	39.03	10.11	13.12	1.84	0.97	24.65	12.52	0.80
4700	27.03	38.73	10.06	13.62	1.81	0.97	24.13	12.12	0.81
4800	26.93	38.78	10.02	14.22	1.84	0.98	24.39	12.06	0.81
4900	26.84	38.32	9.96	15.04	1.79	0.98	24.31	12.02	0.85
5000	26.72	38.48	9.92	15.97	1.84	1.00	24.07	12.02	0.87
5100	26.61	39.04	9.98	16.95	1.98	1.01	23.38	11.44	0.91
5200	26.47	38.42	10.00	18.38	1.90	1.01	23.95	11.92	0.93
5300	26.31	38.17	10.14	19.97	1.90	1.01	23.67	11.80	0.95
5400	26.14	38.13	10.28	21.62	1.93	1.01	23.04	11.38	0.95
5500	25.97	39.01	10.45	23.49	2.16	1.03	22.44	10.71	0.97
5600	25.81	39.03	10.61	26.19	2.21	1.03	23.25	11.38	1.00
5700	25.62	38.53	10.83	29.09	2.15	1.03	22.98	11.24	1.04
5800	25.41	38.97	11.11	27.87	2.31	1.03	22.83	11.02	1.08
5900	25.19	38.86	11.50	24.91	2.34	1.02	23.10	11.42	1.09
6000	24.95	39.16	11.86	22.09	2.48	1.02	22.73	11.05	1.15

Note: Test data of Die packaged in industry standard, 3x3mm, 12-lead MCLP package

