Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

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

TEST CONDITIONS: Vd = 4V, Id = 54.09mA, R1=267 Ohms @ Temperature = +25degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)
500	21.78	42.23	2.02	6.93	1.92	1.23	27.48	16.87
525	22.53	41.02	2.59	7.73	1.89	1.21	27.95	17.34
550	23.13	40.30	3.28	8.57	1.92	1.19	27.79	17.75
575	23.59	39.70	4.08	9.45	1.97	1.16	27.79	18.12
600	23.94	38.83	4.97	10.31	1.94	1.12	28.24	18.25
625	24.18	38.76	5.96	11.21	2.04	1.09	28.29	18.88
650	24.32	38.36	7.04	12.10	2.06	1.06	28.58	19.09
675	24.40	37.86	8.21	12.90	2.06	1.02	28.79	19.35
700	24.43	38.04	9.45	13.64	2.18	1.01	29.24	19.57
725	24.40	37.80	10.77	14.36	2.20	0.99	29.44	19.58
750	24.33	37.95	12.21	15.02	2.31	0.97	29.69	19.91
775	24.25	37.63	13.78	15.57	2.30	0.96	30.06	19.94
800	24.14	37.66	15.47	16.12	2.37	0.95	30.42	19.85
825	24.02	37.52	17.41	16.70	2.39	0.95	30.54	20.22
850	23.88	37.50	19.50	17.20	2.44	0.94	30.40	20.22
875	23.73	37.50	21.84	17.71	2.49	0.94	30.84	19.99
900	23.58	37.31	24.22	18.16	2.49	0.94	30.53	20.53
925	23.42	37.40	26.19	18.51	2.56	0.95	30.94	20.18
950	23.26	37.59	27.29	18.85	2.66	0.95	30.95	20.07
975	23.10	37.56	26.41	19.15	2.70	0.95	30.49	20.28
1000	22.93	37.52	24.92	19.33	2.74	0.96	30.25	20.02
1050	22.60	37.72	22.00	19.47	2.89	0.96	30.84	20.02
1100	22.27	37.43	19.69	19.29	2.88	0.97	30.74	20.00
1150	21.94	37.53	17.93	18.72	3.00	0.98	30.71	20.02
1200	21.62	37.66	16.93	18.08	3.12	0.98	30.64	20.06
1250	21.30	37.84	15.96	17.18	3.27	0.99	30.37	20.10
1300	20.99	37.78	15.35	16.24	3.32	0.99	30.44	19.81
1350	20.68	37.72	14.83	15.27	3.38	0.99	30.39	19.58
1400	20.38	37.76	14.26	14.36	3.46	0.99	30.21	19.36
1500	19.78	37.99	13.41	12.69	3.69	0.99	30.35	19.58
1550	19.47	38.16	13.13	11.92	3.83	0.98	29.89	18.84
1600	19.18	38.04	12.91	11.19	3.84	0.97	30.04	18.92
1700	18.59	38.11	12.40	9.85	3.98	0.95	29.43	18.19
1800	17.99	38.52	11.88	8.73	4.26	0.93	29.60	18.25
1900	17.37	38.65	11.50	7.76	4.42	0.90	29.74	18.07
2000	16.73	38.95	11.33	7.25	4.78	0.88	29.02	17.45
2100	16.25	39.04	11.02	6.38	4.79	0.84	29.18	17.40
2200	15.69	39.02	10.74	5.66	4.78	0.81	29.04	17.34
2300	15.12	39.54	10.55	5.10	5.11	0.77	28.59	16.44
2400	14.53	39.69	10.27	4.60	5.20	0.73	27.88	15.96
2500	13.95	39.71	10.05	4.19	5.25	0.70	28.02	15.58
2600	13.38	40.18	9.92	3.83	5.58	0.66	27.18	15.10
2700	12.81	39.59	9.71	3.51	5.21	0.63	27.03	14.84
2800	12.24	39.75	9.48	3.25	5.34	0.60	26.66	14.26
2900	11.70	39.38	9.36	3.02	5.15	0.58	26.49	13.97
3000	11.17	39.44	9.21	2.83	5.23	0.55	25.59	13.54
3100	10.65	39.19	9.00	2.62	5.06	0.53	25.64	13.10
3200	10.14	38.88	8.93	2.46	4.91	0.51	24.56	12.46
3300	9.67	38.08	8.81	2.29	4.43	0.48	24.57	12.11
3400	9.20	38.03	8.68	2.14	4.38	0.46	24.03	11.83
3500	8.74	37.19	8.56	2.02	3.97	0.44	23.31	11.43
3600	8.26	36.71	8.50	1.92	3.79	0.43	23.01	10.94
3700	7.85	36.22	8.32	1.86	3.62	0.42	22.59	10.60
3800	7.41	35.38	8.17	1.75	3.23	0.40	22.07	10.37
3900	6.98	34.60	8.24	1.72	3.06	0.40	21.48	9.86
4000	6.60	33.52	8.12	1.68	2.72	0.40	21.64	9.63

FREQ	Noise Figure
(MHz)	(dB)
500.0	1.18
600.0	1.01
700.0	0.51
800.0	0.47
900.0	0.37
1000.0	0.39
1100.0	0.43
1200.0	0.51
1300.0	0.41
1400.0	0.55
1500.0	0.61
1600.0	0.60
1700.0	0.58
1800.0	0.74
1900.0	0.68
2000.0	0.78
2100.0	0.76
2200.0	0.81
2300.0	0.92
2400.0	0.95
2500.0	1.09
2600.0	1.04
2700.0	1.19
2800.0	1.21
2900.0	1.25
3000.0	1.16
3100.0	1.46
3200.0	1.46
3300.0	1.51
3400.0	1.59
3500.0	1.49
3600.0	1.75
3700.0	1.78
3800.0	1.77
3900.0	1.84
4000.0	1.78

Note: Test data of Die packaged in industry standard, 2x2mm, 8-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 = 3.8V, Id = 50.72mA, R1=267 Ohms @ Temperature = +25degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)
500	21.62	41.85	2.00	6.93	1.87	1.23	26.95	16.34
525	22.38	40.96	2.59	7.74	1.90	1.21	27.32	16.79
550	22.99	39.98	3.27	8.59	1.89	1.19	27.42	17.22
575	23.46	39.30	4.08	9.49	1.92	1.15	27.48	17.62
600	23.82	38.92	4.99	10.38	1.98	1.12	27.72	17.73
625	24.06	38.22	5.98	11.31	1.96	1.08	27.83	18.37
650	24.21	38.13	7.08	12.21	2.05	1.05	28.15	18.54
675	24.29	37.79	8.28	13.02	2.07	1.02	28.33	18.84
700	24.32	37.47	9.56	13.83	2.09	1.00	28.75	19.06
725	24.29	37.43	10.93	14.56	2.15	0.98	29.16	19.08
750	24.22	37.55	12.41	15.21	2.25	0.97	29.32	19.40
775	24.14	37.23	14.06	15.84	2.24	0.95	29.99	19.43
800	24.02	37.31	15.81	16.42	2.32	0.95	30.16	19.36
825	23.90	37.13	17.82	16.99	2.33	0.94	30.16	19.70
850	23.76	37.19	20.00	17.52	2.40	0.94	30.29	19.73
875	23.61	37.10	22.28	18.03	2.43	0.94	30.85	19.51
900	23.45	37.13	24.55	18.51	2.48	0.94	30.42	20.04
925	23.29	37.10	25.87	18.85	2.52	0.95	30.71	19.68
950	23.13	37.16	25.95	19.19	2.58	0.95	30.60	19.61
975	22.97	37.21	24.77	19.47	2.64	0.95	30.55	19.82
1000	22.80	37.20	23.26	19.64	2.68	0.96	30.05	19.57
1050	22.47	37.33	20.74	19.78	2.80	0.97	30.35	19.57
1100	22.14	37.26	18.70	19.50	2.86	0.97	30.48	19.55
1150	21.80	37.51	17.14	18.89	3.03	0.98	30.57	19.60
1200	21.48	37.34	16.20	18.14	3.05	0.99	30.68	19.62
1250	21.16	37.39	15.32	17.25	3.15	0.99	30.38	19.68
1300	20.85	37.39	14.73	16.23	3.22	0.99	29.97	19.37
1350	20.53	37.51	14.25	15.26	3.34	0.99	30.28	19.15
1400	20.23	37.50	13.74	14.33	3.40	1.00	29.67	18.96
1500	19.62	37.72	12.94	12.65	3.62	0.99	29.88	19.17
1550	19.32	37.80	12.70	11.86	3.72	0.98	29.83	18.43
1600	19.02	37.90	12.48	11.15	3.82	0.98	29.87	18.53
1700	18.43	38.18	12.03	9.82	4.05	0.96	29.32	17.80
1800	17.83	38.38	11.53	8.70	4.24	0.93	29.56	17.83
1900	17.21	38.79	11.16	7.73	4.54	0.91	29.09	17.65
2000	16.56	38.50	11.04	7.21	4.59	0.89	28.62	17.07
2100	16.09	38.88	10.71	6.35	4.75	0.85	28.62	17.01
2200	15.53	38.83	10.48	5.64	4.72	0.81	28.80	16.92
2300	14.95	39.28	10.28	5.07	5.00	0.77	27.75	15.92
2400	14.37	39.60	10.04	4.56	5.20	0.73	27.36	15.46
2500	13.78	39.85	9.85	4.17	5.39	0.70	27.16	15.15
2600	13.21	40.21	9.71	3.81	5.65	0.66	26.22	14.50
2700	12.64	39.97	9.51	3.49	5.50	0.63	26.05	14.30
2800	12.07	39.55	9.27	3.23	5.26	0.60	25.77	13.89
2900	11.54	39.52	9.18	3.01	5.29	0.58	25.41	13.45
3000	11.00	39.44	9.04	2.81	5.27	0.55	24.53	12.99
3100	10.48	39.27	8.84	2.61	5.16	0.53	24.69	12.52
3200	9.97	39.01	8.76	2.44	5.03	0.51	23.56	11.90
3300	9.50	38.38	8.65	2.27	4.63	0.48	23.54	11.57
3400	9.03	37.87	8.52	2.13	4.33	0.46	23.01	11.30
3500	8.57	37.16	8.42	2.01	3.99	0.44	22.24	10.79
3600	8.08	36.84	8.37	1.90	3.87	0.43	22.01	10.32
3700	7.68	36.31	8.18	1.85	3.68	0.42	21.58	10.04
3800	7.24	35.22	8.04	1.74	3.20	0.41	21.17	9.81
3900	6.81	35.13	8.08	1.73	3.33	0.40	20.56	9.30
4000	6.44	33.75	7.98	1.68	2.84	0.40	20.73	9.03

FREQ	Noise Figure
(MHz)	(dB)
500.0	1.16
600.0	1.01
700.0	0.52
800.0	0.49
900.0	0.45
1000.0	0.36
1100.0	0.45
1200.0	0.50
1300.0	0.43
1400.0	0.57
1500.0	0.60
1600.0	0.61
1700.0	0.58
1800.0	0.77
1900.0	0.68
2000.0	0.80
2100.0	0.79
2200.0	0.80
2300.0	0.88
2400.0	0.93
2500.0	1.08
2600.0	1.07
2700.0	1.25
2800.0	1.19
2900.0	1.28
3000.0	1.32
3100.0	1.38
3200.0	1.55
3300.0	1.56
3400.0	1.61
3500.0	1.58
3600.0	1.78
3700.0	1.73
3800.0	1.79
3900.0	1.91
4000.0	1.77

Note: Test data of Die packaged in industry standard, 2x2mm, 8-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 =4.2V, Id = 57.17mA, R1=267 Ohms @ Temperature = +25degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)
500	21.93	42.37	2.03	6.92	1.92	1.23	28.05	17.28
525	22.67	41.37	2.61	7.72	1.93	1.21	28.24	17.78
550	23.25	40.64	3.29	8.54	1.96	1.19	28.26	18.21
575	23.71	40.04	4.08	9.40	2.00	1.16	28.32	18.58
600	24.06	39.41	4.96	10.26	2.02	1.12	28.52	18.72
625	24.29	38.99	5.93	11.14	2.05	1.09	28.51	19.31
650	24.43	38.62	6.98	11.99	2.09	1.06	28.91	19.56
675	24.51	38.47	8.13	12.73	2.15	1.03	29.18	19.81
700	24.53	38.33	9.34	13.46	2.20	1.01	29.78	20.02
725	24.50	38.02	10.63	14.14	2.22	0.99	30.12	20.02
750	24.43	37.90	12.02	14.74	2.26	0.97	29.91	20.36
775	24.35	37.94	13.53	15.30	2.34	0.96	30.48	20.36
800	24.25	37.78	15.16	15.84	2.36	0.95	30.54	20.28
825	24.12	37.92	16.99	16.39	2.46	0.95	30.63	20.64
850	23.98	37.81	18.99	16.88	2.49	0.95	30.80	20.63
875	23.84	37.80	21.19	17.36	2.54	0.95	30.97	20.40
900	23.69	37.86	23.69	17.79	2.61	0.95	30.83	20.93
925	23.53	37.94	26.21	18.10	2.68	0.95	31.22	20.59
950	23.38	37.79	28.14	18.48	2.69	0.95	31.36	20.49
975	23.22	37.99	28.05	18.75	2.80	0.95	30.97	20.70
1000	23.05	37.85	26.63	18.98	2.80	0.96	30.92	20.42
1050	22.73	38.18	23.46	19.21	3.00	0.96	30.90	20.42
1100	22.40	38.02	20.79	19.04	3.04	0.97	31.15	20.38
1150	22.07	38.02	18.82	18.61	3.13	0.98	30.78	20.40
1200	21.76	37.96	17.71	18.00	3.19	0.98	30.89	20.45
1250	21.44	38.05	16.67	17.20	3.31	0.98	30.69	20.47
1300	21.13	38.12	15.97	16.25	3.42	0.99	30.68	20.15
1350	20.82	38.13	15.41	15.34	3.50	0.99	30.40	19.95
1400	20.52	38.27	14.81	14.44	3.63	0.99	30.17	19.74
1500	19.92	38.29	13.87	12.78	3.78	0.98	30.25	19.92
1550	19.62	38.45	13.59	12.00	3.92	0.98	30.03	19.20
1600	19.33	38.38	13.34	11.28	3.96	0.97	30.08	19.30
1700	18.74	38.51	12.81	9.94	4.13	0.95	29.68	18.55
1800	18.15	38.80	12.25	8.81	4.36	0.93	29.75	18.62
1900	17.53	39.09	11.81	7.83	4.61	0.90	29.80	18.40
2000	16.88	38.95	11.68	7.31	4.74	0.88	29.36	17.83
2100	16.42	39.53	11.29	6.45	5.03	0.84	29.38	17.77
2200	15.86	39.45	11.00	5.72	4.99	0.80	29.30	17.73
2300	15.29	40.02	10.78	5.15	5.36	0.77	28.73	16.76
2400	14.70	39.57	10.51	4.64	5.10	0.73	28.42	16.33
2500	14.12	39.78	10.26	4.22	5.25	0.70	28.40	16.06
2600	13.55	40.16	10.13	3.87	5.53	0.66	27.92	15.48
2700	12.98	40.06	9.90	3.55	5.47	0.63	27.51	15.14
2800	12.41	39.86	9.66	3.28	5.36	0.60	27.38	14.80
2900	11.88	39.60	9.54	3.05	5.24	0.58	27.24	14.40
3000	11.34	39.38	9.38	2.85	5.15	0.55	26.31	13.96
3100	10.82	39.18	9.16	2.65	5.02	0.53	26.46	13.56
3200	10.31	38.93	9.09	2.48	4.91	0.51	25.45	12.89
3300	9.84	38.04	8.96	2.31	4.39	0.48	25.44	12.56
3400	9.37	37.80	8.81	2.16	4.23	0.46	24.83	12.37
3500	8.91	37.05	8.72	2.04	3.87	0.45	24.28	11.91
3600	8.44	36.93	8.63	1.93	3.85	0.43	24.00	11.44
3700	8.03	36.13	8.46	1.87	3.54	0.42	23.47	11.15
3800	7.59	35.16	8.31	1.76	3.12	0.41	22.90	10.89
3900	7.16	34.53	8.38	1.74	3.02	0.40	22.34	10.41
4000	6.78	33.61	8.27	1.69	2.74	0.40	22.39	10.16

FREQ	Noise Figure
(MHz)	(dB)
500.0	1.15
600.0	0.92
700.0	0.50
800.0	0.48
900.0	0.41
1000.0	0.34
1100.0	0.42
1200.0	0.47
1300.0	0.41
1400.0	0.55
1500.0	0.61
1600.0	0.59
1700.0	0.59
1800.0	0.74
1900.0	0.67
2000.0	0.80
2100.0	0.77
2200.0	0.77
2300.0	0.91
2400.0	0.93
2500.0	1.05
2600.0	1.06
2700.0	1.24
2800.0	1.22
2900.0	1.29
3000.0	1.18
3100.0	1.38
3200.0	1.48
3300.0	1.56
3400.0	1.59
3500.0	1.52
3600.0	1.72
3700.0	1.80
3800.0	1.89
3900.0	1.86
4000.0	1.83

Note: Test data of Die packaged in industry standard, 2x2mm, 8-lead MCLP package