

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 = 3.75V, Id = 63mA @ 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)
7000	6.72	66.69	4.00	5.41	229.36	1.00	1.77	-5.07	7.38
8000	18.93	64.83	9.50	9.82	84.65	1.00	12.47	2.55	3.48
9000	22.62	69.03	10.61	12.09	97.34	1.02	16.77	5.68	2.29
10000	25.07	58.79	12.08	12.24	23.53	1.00	17.26	7.51	1.79
11000	26.69	60.80	10.21	12.69	23.91	1.04	18.50	7.58	1.81
12000	27.87	61.71	8.21	15.65	22.40	1.12	18.09	8.12	1.84
13000	28.47	57.87	8.16	18.25	13.64	1.14	18.55	8.06	1.93
14000	28.43	54.72	10.16	12.70	9.85	1.04	19.01	8.14	1.85
15000	27.95	52.49	13.35	10.63	8.31	0.95	19.76	8.69	1.75
16000	27.42	51.84	16.15	10.85	8.46	0.93	20.52	8.81	1.63
17000	26.86	49.85	15.83	11.89	7.31	0.95	20.86	8.73	1.61
18000	26.32	48.56	14.38	12.32	6.72	0.97	20.19	8.45	1.59
19000	25.83	48.32	14.04	11.64	6.88	0.96	19.62	8.19	1.58
20000	25.46	46.87	15.08	10.96	6.12	0.94	19.09	8.83	1.55
21000	24.91	46.06	16.61	10.48	5.95	0.92	19.04	9.31	1.54
22000	23.79	46.98	14.85	9.31	7.23	0.90	20.51	10.07	1.49
23000	23.02	47.30	12.32	8.90	7.89	0.91	21.02	9.90	1.56
24000	22.22	47.73	10.87	8.78	8.86	0.93	21.33	10.47	1.65
25000	21.45	48.31	10.29	8.43	10.11	0.93	22.13	10.61	1.69
26000	20.65	47.95	9.39	7.79	10.13	0.92	20.99	10.49	1.80
27000	19.77	46.74	8.51	7.24	9.25	0.92	21.02	10.58	1.95
28000	19.04	47.45	7.94	7.35	10.68	0.95	20.85	10.59	2.18
29000	18.55	45.02	7.78	8.20	8.79	1.00	21.39	10.33	2.14
30000	18.13	45.16	8.08	9.29	9.91	1.03	20.69	10.58	2.25
31000	17.62	46.59	8.21	9.90	12.74	1.04	21.48	10.41	2.43
32000	16.98	47.12	7.69	9.49	14.10	1.04	20.92	9.99	2.65
33000	16.14	47.52	6.33	8.81	14.75	1.08	20.86	9.89	2.96
34000	15.28	46.77	4.98	8.29	13.16	1.13	21.47	9.75	3.36
35000	14.61	46.42	4.19	8.06	12.52	1.16	21.60	9.48	3.82
36000	13.69	46.42	3.74	7.89	13.15	1.18	21.00	9.42	3.95
37000	13.31	46.45	3.72	8.43	14.11	1.21	22.28	9.33	4.16
38000	12.93	45.12	4.12	9.04	13.67	1.21	20.68	9.85	4.04
39000	12.97	47.36	4.66	10.44	19.57	1.22	21.20	10.33	3.94
40000	13.36	44.39	4.90	11.97	14.27	1.24	21.32	11.15	3.84
41000	12.94	45.29	4.78	10.92	16.33	1.22	21.38	10.27	3.87
42000	11.81	43.80	4.46	9.13	14.42	1.19	20.57	9.89	4.25
43000	10.17	46.40	4.26	8.11	21.70	1.17	22.22	9.26	4.53
44000	8.30	54.38	4.39	7.74	67.56	1.14	20.93	8.76	4.58
45000	7.68	53.78	4.06	7.86	65.49	1.17	20.43	9.97	5.07
46000	7.50	49.77	3.73	8.38	41.40	1.22	20.84	10.15	4.74
47000	7.88	49.30	3.80	8.83	39.42	1.23	20.26	9.67	5.08
48000	9.54	45.75	4.56	8.06	23.72	1.14	19.04	10.11	4.79
49000	10.80	43.42	6.78	7.06	18.59	0.97	21.39	11.19	4.78
50000	10.51	42.55	12.09	6.98	20.83	0.84	18.84	12.01	5.69

Note: Test data of Die packaged in industry standard 3x3mm 12L 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 = 4.00V, 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)
7000	7.38	66.16	4.18	5.42	205.54	0.99	2.49	-4.39	7.36
8000	19.18	62.70	9.27	9.75	63.74	1.00	13.28	3.34	3.62
9000	22.92	67.81	10.44	11.99	81.23	1.02	17.62	6.34	2.23
10000	25.39	60.57	12.03	12.15	27.79	1.00	18.22	8.15	1.81
11000	27.02	60.08	10.36	12.65	21.27	1.03	19.26	8.11	1.70
12000	28.20	61.13	8.44	15.64	20.35	1.11	18.58	8.65	1.77
13000	28.77	59.85	8.41	17.94	16.68	1.13	19.02	8.68	1.83
14000	28.70	56.31	10.46	12.54	11.52	1.03	19.73	8.62	1.79
15000	28.20	54.41	13.69	10.53	10.07	0.95	20.49	9.15	1.69
16000	27.68	51.56	16.58	10.77	7.96	0.93	21.06	9.41	1.61
17000	27.13	50.77	16.15	11.78	7.88	0.95	21.38	9.21	1.56
18000	26.59	49.29	14.63	12.22	7.08	0.96	20.90	8.94	1.57
19000	26.11	48.93	14.29	11.55	7.14	0.96	19.54	8.68	1.55
20000	25.73	47.20	15.35	10.87	6.16	0.93	20.34	9.44	1.59
21000	25.16	46.32	16.74	10.38	5.95	0.92	19.21	9.91	1.51
22000	24.01	46.70	14.76	9.21	6.80	0.90	20.96	10.65	1.54
23000	23.23	47.32	12.27	8.81	7.69	0.91	22.11	10.48	1.59
24000	22.43	47.48	10.86	8.69	8.39	0.92	21.63	11.05	1.65
25000	21.65	48.14	10.30	8.35	9.66	0.92	22.93	11.19	1.59
26000	20.86	48.38	9.42	7.72	10.38	0.92	21.22	11.06	1.81
27000	19.97	48.01	8.52	7.20	10.41	0.92	21.83	11.15	1.99
28000	19.25	46.14	7.97	7.34	8.98	0.95	22.33	11.16	2.16
29000	18.76	45.49	7.85	8.18	9.10	0.99	21.06	10.91	2.18
30000	18.34	45.90	8.17	9.27	10.56	1.02	20.56	11.16	2.27
31000	17.84	46.16	8.32	9.90	11.87	1.04	21.01	10.99	2.40
32000	17.21	46.83	7.76	9.49	13.33	1.04	21.75	10.56	2.70
33000	16.37	46.96	6.41	8.85	13.55	1.08	21.03	10.36	3.01
34000	15.53	46.49	5.04	8.37	12.50	1.13	21.29	10.24	3.39
35000	14.88	46.66	4.24	8.19	12.63	1.17	20.15	10.01	3.80
36000	13.96	47.31	3.78	8.01	14.28	1.19	21.30	9.83	3.98
37000	13.58	45.79	3.75	8.57	12.83	1.21	21.70	9.71	4.19
38000	13.19	44.82	4.16	9.15	12.93	1.21	22.13	10.31	4.10
39000	13.20	46.60	4.69	10.53	17.57	1.22	21.22	10.79	3.97
40000	13.59	44.74	4.93	12.17	14.53	1.24	22.37	11.68	3.86
41000	13.18	44.17	4.83	11.04	14.06	1.22	22.59	10.80	3.81
42000	12.05	44.69	4.50	9.22	15.66	1.19	22.72	10.40	4.16
43000	10.40	45.36	4.28	8.12	18.82	1.17	21.10	9.74	4.58
44000	8.52	52.61	4.40	7.75	53.79	1.14	21.79	9.25	5.12
45000	7.88	52.63	4.07	7.87	56.17	1.17	20.48	10.27	5.12
46000	7.69	49.10	3.74	8.36	37.46	1.22	19.38	10.38	4.97
47000	8.06	47.43	3.80	8.83	31.12	1.23	20.71	9.90	5.04
48000	9.73	45.19	4.53	8.03	21.64	1.14	19.56	10.44	4.73
49000	10.99	42.74	6.74	6.97	16.68	0.97	20.51	11.59	4.81
50000	10.73	42.82	12.03	6.87	20.79	0.84	20.31	12.44	5.56

Note: Test data of Die packaged in industry standard 3x3mm 12L 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 = 4.25V, Id = 73mA @ 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)
7000	7.94	72.53	4.35	5.43	411.03	0.98	2.76	-3.80	7.29
8000	19.39	61.47	9.09	9.68	53.60	1.00	14.08	4.07	3.47
9000	23.16	63.93	10.31	11.90	50.30	1.02	18.43	6.94	2.24
10000	25.64	64.95	11.98	12.07	44.52	1.00	18.54	8.62	1.80
11000	27.30	59.77	10.49	12.61	19.91	1.03	19.54	8.58	1.75
12000	28.48	63.04	8.63	15.65	24.72	1.11	19.37	9.24	1.80
13000	29.02	60.77	8.65	17.67	18.17	1.12	19.69	9.13	1.88
14000	28.92	56.45	10.72	12.39	11.46	1.02	20.17	9.04	1.79
15000	28.41	54.31	13.99	10.46	9.74	0.94	21.39	9.69	1.73
16000	27.89	51.75	16.96	10.71	7.95	0.93	21.65	9.83	1.65
17000	27.35	50.42	16.43	11.71	7.38	0.95	22.03	9.77	1.54
18000	26.82	49.92	14.84	12.16	7.41	0.96	21.20	9.51	1.57
19000	26.33	48.70	14.49	11.48	6.79	0.95	21.13	9.12	1.58
20000	25.95	47.19	15.60	10.79	6.00	0.93	20.60	9.86	1.59
21000	25.37	47.13	16.84	10.28	6.36	0.91	20.01	10.32	1.57
22000	24.19	46.84	14.70	9.12	6.75	0.90	21.01	11.05	1.50
23000	23.41	47.58	12.22	8.73	7.74	0.91	23.43	10.87	1.53
24000	22.60	47.81	10.85	8.61	8.51	0.92	21.75	11.57	1.62
25000	21.81	47.98	10.32	8.28	9.30	0.92	22.88	11.71	1.70
26000	21.02	48.09	9.44	7.65	9.84	0.91	21.31	11.59	1.82
27000	20.13	47.29	8.55	7.14	9.44	0.91	22.38	11.68	1.92
28000	19.42	46.74	8.00	7.28	9.42	0.94	22.08	11.68	2.15
29000	18.93	45.56	7.90	8.17	9.00	0.99	21.89	11.45	2.21
30000	18.52	45.42	8.24	9.26	9.82	1.02	21.58	11.60	2.31
31000	18.03	45.92	8.38	9.90	11.33	1.03	21.78	11.51	2.44
32000	17.40	47.07	7.84	9.53	13.47	1.04	21.35	11.10	2.68
33000	16.57	47.93	6.48	8.87	14.90	1.07	21.50	10.93	3.08
34000	15.75	46.88	5.09	8.46	12.84	1.13	21.91	10.82	3.43
35000	15.12	46.16	4.27	8.34	11.72	1.17	21.20	10.54	3.78
36000	14.19	47.36	3.81	8.14	14.14	1.19	20.63	10.39	4.01
37000	13.81	45.68	3.78	8.70	12.48	1.22	23.23	10.27	4.21
38000	13.40	45.63	4.18	9.23	13.93	1.21	21.24	10.85	4.10
39000	13.40	46.93	4.71	10.62	17.86	1.22	23.14	11.22	3.92
40000	13.80	45.55	4.95	12.26	15.65	1.24	22.59	12.14	3.86
41000	13.39	43.19	4.84	11.17	12.30	1.22	22.62	11.26	3.90
42000	12.26	45.33	4.51	9.26	16.46	1.19	22.28	10.86	4.11
43000	10.59	46.69	4.29	8.14	21.51	1.16	24.06	10.18	4.52
44000	8.71	50.95	4.42	7.75	43.54	1.14	21.75	9.68	5.08
45000	8.06	52.86	4.10	7.85	56.69	1.16	21.41	10.61	5.23
46000	7.84	48.39	3.75	8.34	33.98	1.22	20.31	10.68	4.90
47000	8.22	47.10	3.80	8.81	29.34	1.23	19.94	10.11	5.06
48000	9.89	44.72	4.52	7.95	20.00	1.14	19.16	10.72	4.70
49000	11.16	43.73	6.70	6.85	18.16	0.96	22.14	11.89	4.85
50000	10.92	43.53	11.89	6.75	21.88	0.84	19.89	12.92	5.48

Note: Test data of Die packaged in industry standard 3x3mm 12L MCLP package