

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 = 4.0V, Id = 26mA @ 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)
20000	14.41	57.43	4.77	13.43	45.05	1.27	10.43	0.12	4.72
20500	15.18	54.84	5.67	12.45	33.09	1.20	9.98	0.18	4.38
21000	15.84	53.94	6.69	12.13	29.72	1.14	10.28	0.28	4.16
21500	16.34	53.39	7.90	12.15	28.08	1.09	10.31	0.58	3.93
22000	16.68	53.08	9.29	11.94	27.37	1.04	11.42	0.97	3.78
22500	16.90	53.76	10.35	12.17	29.76	1.02	11.48	1.08	3.69
23000	17.08	53.40	11.27	12.27	28.56	1.01	11.71	1.34	3.55
23500	17.25	52.90	12.27	12.79	27.09	1.00	11.34	1.34	3.54
24000	17.43	51.49	13.39	13.04	22.92	0.99	11.24	1.44	3.48
24500	17.62	51.06	14.59	13.01	21.59	0.98	11.95	1.56	3.41
25000	17.81	49.99	16.17	13.47	19.00	0.98	11.65	1.58	3.38
25500	17.94	48.93	18.28	13.90	16.77	0.97	11.31	1.96	3.33
26000	18.04	48.37	18.83	14.75	15.71	0.98	12.03	2.10	3.26
26500	18.10	47.97	18.24	15.43	14.92	0.98	12.61	2.36	3.24
27000	18.17	47.73	17.60	16.06	14.42	0.99	12.84	2.41	3.22
27500	18.29	46.95	17.48	16.52	13.04	0.99	11.58	2.67	3.20
28000	18.44	45.66	17.73	17.54	11.11	1.00	13.24	2.75	3.21
28500	18.52	45.22	18.68	17.84	10.51	0.99	12.75	2.97	3.18
29000	18.54	45.71	18.50	17.55	11.07	0.99	13.27	3.27	3.18
29500	18.53	45.33	17.90	17.46	10.58	1.00	13.48	3.57	3.18
30000	18.54	45.73	16.56	17.09	10.99	1.00	14.00	3.90	3.21
30500	18.62	45.60	15.78	17.65	10.71	1.01	14.06	4.12	3.23
31000	18.74	45.61	15.52	18.16	10.57	1.01	14.58	4.45	3.21
31500	18.85	46.08	15.78	19.62	11.08	1.01	14.09	4.53	3.24
32000	18.99	45.27	17.04	22.36	10.07	1.01	15.10	5.01	3.28
32500	19.09	45.53	18.42	24.80	10.32	1.01	14.92	4.84	3.24
33000	19.13	45.59	20.87	21.05	10.37	1.00	15.39	5.36	3.19
33500	19.08	45.18	21.79	16.40	9.83	0.98	15.63	5.74	3.26
34000	19.13	43.45	18.10	13.70	7.80	0.97	15.83	5.99	3.25
34500	19.06	44.85	14.58	10.82	8.70	0.94	16.60	6.63	3.24
35000	18.85	46.12	13.30	9.39	9.82	0.92	16.70	6.39	3.21
35500	18.62	45.17	11.36	7.98	8.37	0.89	16.06	6.27	3.23
36000	18.34	45.88	11.22	7.43	9.07	0.88	15.68	6.08	3.25
36500	18.26	46.87	11.63	6.76	9.92	0.84	16.37	6.14	3.36
37000	18.28	47.48	11.84	6.49	10.45	0.83	15.48	5.75	3.45
37500	18.23	48.03	12.41	6.14	10.99	0.80	15.24	5.93	3.13
38000	17.85	48.82	13.21	6.21	12.79	0.80	15.71	6.53	3.63
38500	17.33	47.35	12.43	6.44	11.53	0.82	15.34	6.01	3.34
39000	17.48	46.65	11.47	6.47	10.27	0.83	15.59	6.65	3.31
39500	17.58	47.59	10.70	6.41	11.08	0.84	15.08	6.92	3.40
40000	17.36	48.20	10.45	6.46	12.17	0.85	15.29	7.14	3.45
40500	16.83	51.08	9.54	6.92	18.16	0.89	17.21	8.26	3.45
41000	16.09	52.97	8.40	7.41	24.30	0.94	16.58	8.28	3.60
41500	15.21	57.02	7.49	7.96	42.34	0.99	16.98	8.59	3.78
42000	14.33	60.54	7.01	8.12	69.05	1.02	17.72	8.70	3.82
42500	13.43	63.85	6.92	8.19	112.08	1.02	18.56	8.58	3.81
43000	12.49	64.41	7.31	8.31	136.68	1.01	18.33	8.23	3.86
43500	11.46	63.82	8.05	7.52	143.97	0.95	18.31	7.91	3.97

Note: Test data of Die packaged in industry standard 3x3 12-lead MCL 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 = 24mA @ 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)
20000	14.16	56.82	4.70	13.49	42.91	1.28	9.99	-0.27	4.76
20500	14.94	55.25	5.60	12.50	35.47	1.20	9.46	-0.22	4.45
21000	15.59	53.46	6.60	12.18	28.79	1.14	9.82	-0.11	4.17
21500	16.10	53.26	7.79	12.19	28.35	1.09	9.83	0.19	3.99
22000	16.44	52.66	9.16	11.98	26.72	1.05	11.03	0.58	3.78
22500	16.66	54.13	10.20	12.22	31.84	1.03	10.99	0.59	3.72
23000	16.84	52.94	11.11	12.31	27.79	1.01	11.12	0.95	3.61
23500	17.00	52.26	12.09	12.84	25.81	1.00	10.86	0.85	3.54
24000	17.18	51.66	13.21	13.08	24.03	0.99	10.72	1.04	3.51
24500	17.37	50.36	14.38	13.06	20.49	0.98	11.38	1.16	3.44
25000	17.55	49.59	15.94	13.53	18.65	0.98	11.11	1.18	3.40
25500	17.69	49.11	18.01	13.96	17.61	0.97	10.80	1.56	3.37
26000	17.78	48.57	18.60	14.82	16.53	0.98	11.58	1.69	3.30
26500	17.85	47.67	18.10	15.49	14.85	0.99	12.11	1.95	3.26
27000	17.92	46.90	17.49	16.16	13.51	0.99	12.14	2.00	3.25
27500	18.04	46.55	17.38	16.59	12.81	0.99	11.15	2.16	3.18
28000	18.19	46.27	17.67	17.65	12.26	1.00	12.56	2.35	3.25
28500	18.27	45.65	18.65	17.88	11.36	1.00	12.23	2.58	3.17
29000	18.30	45.49	18.53	17.55	11.10	0.99	12.56	2.87	3.21
29500	18.30	45.32	17.91	17.45	10.86	1.00	12.89	3.18	3.25
30000	18.31	45.40	16.57	17.06	10.86	1.00	13.14	3.41	3.23
30500	18.40	45.43	15.77	17.59	10.77	1.01	13.44	3.74	3.22
31000	18.53	45.59	15.51	18.08	10.81	1.01	13.85	4.08	3.24
31500	18.65	45.47	15.72	19.53	10.58	1.01	13.84	4.07	3.26
32000	18.79	45.00	16.98	22.12	9.98	1.01	14.57	4.56	3.31
32500	18.91	45.29	18.31	24.38	10.26	1.01	14.44	4.50	3.24
33000	18.95	45.01	20.71	20.75	9.89	1.00	15.26	5.02	3.28
33500	18.91	44.79	21.69	16.24	9.57	0.98	14.92	5.31	3.26
34000	18.96	43.19	18.11	13.56	7.71	0.96	15.82	5.56	3.25
34500	18.90	45.09	14.60	10.68	9.08	0.94	16.05	6.31	3.31
35000	18.70	45.54	13.33	9.26	9.32	0.91	15.64	6.08	3.20
35500	18.48	44.60	11.38	7.87	7.94	0.89	15.47	5.87	3.27
36000	18.20	45.60	11.23	7.32	8.88	0.87	15.31	5.67	3.21
36500	18.12	46.89	11.63	6.65	10.03	0.84	15.54	5.84	2.97
37000	18.13	46.61	11.85	6.39	9.55	0.82	14.88	5.44	3.10
37500	18.09	47.55	12.43	6.04	10.50	0.80	15.17	5.64	3.18
38000	17.71	48.43	13.22	6.11	12.34	0.79	14.85	6.12	3.30
38500	17.19	47.59	12.45	6.33	11.97	0.81	14.98	5.70	3.37
39000	17.33	46.27	11.52	6.37	9.95	0.83	15.46	6.33	3.44
39500	17.43	47.34	10.76	6.32	10.90	0.84	14.76	6.73	3.36
40000	17.20	49.30	10.53	6.36	14.00	0.84	14.92	6.97	3.39
40500	16.67	49.68	9.62	6.84	15.67	0.89	16.48	8.00	3.46
41000	15.93	52.65	8.46	7.34	23.83	0.94	16.25	8.06	3.68
41500	15.05	56.32	7.56	7.91	39.83	0.99	16.56	8.36	3.75
42000	14.17	59.39	7.07	8.08	61.70	1.01	17.81	8.42	3.85
42500	13.27	61.86	6.98	8.16	90.91	1.02	18.50	8.29	3.88
43000	12.33	65.10	7.37	8.28	151.17	1.01	17.47	7.95	3.86
43500	11.30	62.68	8.12	7.49	128.72	0.95	17.09	7.72	4.00

Note: Test data of Die packaged in industry standard 3x3 12-lead MCL 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 = 27mA @ 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)
20000	14.64	56.75	4.83	13.40	40.87	1.27	10.92	0.47	4.70
20500	15.41	55.65	5.74	12.41	35.60	1.19	10.46	0.52	4.38
21000	16.06	53.85	6.77	12.09	28.82	1.13	10.79	0.72	4.14
21500	16.56	52.95	8.00	12.11	26.13	1.08	10.82	0.93	3.90
22000	16.89	53.39	9.41	11.90	27.77	1.04	12.01	1.32	3.75
22500	17.12	53.55	10.48	12.13	28.40	1.02	11.97	1.43	3.66
23000	17.30	53.37	11.42	12.22	27.81	1.01	12.07	1.78	3.55
23500	17.47	52.72	12.43	12.75	25.91	1.00	11.83	1.69	3.50
24000	17.66	52.10	13.57	12.99	23.98	0.99	11.76	1.79	3.45
24500	17.85	51.08	14.78	12.97	21.12	0.98	12.40	1.92	3.42
25000	18.03	49.96	16.40	13.42	18.44	0.97	12.08	2.03	3.38
25500	18.17	49.47	18.53	13.85	17.39	0.97	11.84	2.42	3.33
26000	18.26	48.61	19.02	14.69	15.71	0.98	12.57	2.55	3.27
26500	18.33	48.22	18.37	15.37	14.95	0.98	12.91	2.73	3.24
27000	18.40	47.78	17.69	16.02	14.14	0.99	13.40	2.77	3.20
27500	18.52	47.19	17.54	16.48	13.06	0.99	12.06	3.03	3.21
28000	18.66	46.44	17.80	17.53	11.85	1.00	13.55	3.20	3.18
28500	18.74	45.87	18.70	17.80	11.05	0.99	13.20	3.32	3.15
29000	18.75	45.96	18.54	17.55	11.13	0.99	13.77	3.61	3.21
29500	18.74	45.85	17.88	17.48	10.97	1.00	13.66	3.92	3.22
30000	18.74	45.57	16.55	17.13	10.55	1.00	14.20	4.24	3.21
30500	18.81	45.53	15.78	17.72	10.39	1.01	14.46	4.45	3.20
31000	18.93	45.91	15.56	18.22	10.72	1.01	14.88	4.88	3.21
31500	19.04	45.51	15.81	19.77	10.17	1.01	14.87	4.85	3.24
32000	19.16	45.79	17.15	22.66	10.49	1.01	15.52	5.33	3.27
32500	19.25	45.88	18.53	25.33	10.56	1.01	15.54	5.24	3.25
33000	19.28	45.60	20.99	21.40	10.21	1.00	15.45	5.75	3.27
33500	19.23	45.13	21.90	16.60	9.62	0.98	16.18	6.13	3.26
34000	19.27	43.18	18.04	13.85	7.45	0.97	16.88	6.37	3.34
34500	19.19	45.05	14.55	10.94	8.78	0.94	17.48	7.00	3.25
35000	18.98	46.43	13.29	9.52	10.05	0.92	16.36	6.76	3.18
35500	18.75	45.34	11.35	8.09	8.45	0.90	16.71	6.55	3.27
36000	18.46	45.96	11.23	7.54	9.08	0.88	16.46	6.35	3.15
36500	18.39	47.13	11.62	6.85	10.13	0.85	16.64	6.41	2.99
37000	18.41	47.56	11.83	6.60	10.46	0.83	16.41	6.12	3.20
37500	18.36	48.26	12.41	6.24	11.20	0.81	16.13	6.20	3.59
38000	17.97	49.32	13.20	6.32	13.45	0.80	16.25	6.90	3.24
38500	17.46	46.92	12.39	6.54	10.89	0.82	16.24	6.39	3.32
39000	17.61	46.84	11.43	6.56	10.42	0.84	16.12	7.02	3.35
39500	17.72	47.43	10.64	6.50	10.77	0.85	15.55	7.17	3.38
40000	17.50	48.84	10.37	6.54	12.95	0.85	15.99	7.37	3.47
40500	16.97	51.12	9.47	6.99	17.98	0.89	17.72	8.44	3.49
41000	16.23	54.18	8.33	7.47	27.54	0.94	17.28	8.53	3.61
41500	15.35	59.95	7.43	8.01	58.42	1.00	18.17	8.84	3.74
42000	14.47	61.47	6.95	8.16	75.50	1.02	19.07	8.95	3.81
42500	13.57	63.60	6.86	8.22	106.83	1.03	19.33	8.84	3.82
43000	12.63	68.16	7.25	8.32	206.64	1.01	19.02	8.42	3.87
43500	11.60	63.02	8.00	7.54	129.01	0.95	19.71	8.15	3.97

Note: Test data of Die packaged in industry standard 3x3 12-lead MCL package