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 = 8.00V, Id = 237.09mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
20	23.67	26.69	10.58	14.62	1.02	0.49	41.79	25.95	1.40
30	23.31	26.22	11.50	14.37	1.02	0.46	43.87	25.94	1.33
40	23.07	26.00	11.87	13.73	1.03	0.45	44.26	27.63	1.26
50	22.92	25.88	12.15	13.36	1.03	0.44	43.82	27.42	1.20
60	22.82	25.83	12.29	13.16	1.03	0.44	44.08	27.35	1.27
70	22.75	25.79	12.36	13.02	1.04	0.44	44.25	27.16	1.21
80	22.71	25.76	12.45	12.94	1.04	0.44	44.57	28.04	1.19
90	22.67	25.74	12.45	12.87	1.04	0.44	45.00	27.72	1.20
100	22.65	25.73	12.49	12.83	1.04	0.44	45.03	27.54	1.24
150	22.57	25.73	12.50	12.80	1.04	0.45	44.37	27.63	1.22
200	22.51	25.76	12.40	12.90	1.05	0.46	44.29	27.80	1.20
250	22.46	25.80	12.27	13.02	1.05	0.47	44.06	27.92	1.25
300	22.41	25.85	12.12	13.18	1.05	0.49	44.84	27.91	1.28
350	22.36	25.92	11.97	13.38	1.06	0.50	44.27	28.02	1.27
400	22.30	26.00	11.78	13.56	1.06	0.52	44.67	27.98	1.25
450	22.24	26.08	11.62	13.82	1.07	0.54	45.11	28.08	1.24
500	22.18	26.18	11.42	14.03	1.07	0.56	44.64	28.02	1.29
550	22.12	26.28	11.27	14.27	1.08	0.59	45.64	27.99	1.31
600	22.05	26.39	11.07	14.47	1.09	0.61	45.94	28.12	1.32
650	21.97	26.52	10.89	14.66	1.10	0.63	46.16	27.94	1.33
700	21.89	26.65	10.71	14.78	1.11	0.65	46.00	28.12	1.25
750	21.81	26.79	10.59	14.88	1.12	0.67	46.38	28.15	1.36
800	21.73	26.95	10.46	14.90	1.13	0.70	46.69	28.17	1.29
850	21.65	27.10	10.37	14.90	1.14	0.72	48.23	27.91	1.34
900	21.58	27.25	10.24	14.83	1.15	0.73	48.71	27.98	1.37
950	21.51	27.41	10.12	14.69	1.17	0.75	47.77	28.31	1.30
1000	21.43	27.58	10.01	14.47	1.18	0.77	45.44	28.20	1.35
1100	21.27	27.94	9.93	13.86	1.21	0.79	48.58	27.88	1.40
1200	21.11	28.33	9.92	13.16	1.25	0.82	48.83	27.96	1.46
1300	20.95	28.74	10.00	12.42	1.29	0.83	50.43	28.13	1.43
1400	20.79	29.16	10.16	11.68	1.33	0.85	53.49	27.76	1.51
1500	20.63	29.60	10.39	10.99	1.38	0.86	50.19	27.69	1.55
1600	20.46	30.06	10.61	10.35	1.43	0.87	51.48	27.70	1.60
1700	20.29	30.52	10.71	9.77	1.48	0.88	50.27	27.50	1.62
1800	20.08	31.01	10.58	9.25	1.53	0.89	52.70	27.54	1.65
1900	19.83	31.55	10.13	8.78	1.59	0.91	52.98	27.58	1.77
2000	19.54	32.11	9.33	8.34	1.64	0.94	49.49	27.40	1.86
2100	19.18	32.66	8.32	7.95	1.68	0.97	48.95	27.29	2.01
2200	18.74	33.27	7.23	7.58	1.72	1.00	47.60	27.13	2.14
2300	18.23	33.84	6.16	7.26	1.75	1.04	49.87	26.90	2.33
2400	17.66	34.42	5.22	6.93	1.76	1.08	48.62	26.53	2.61
2500	17.01	34.98	4.41	6.64	1.77	1.12	51.59	26.84	2.84

Note: Test data of Die packaged in industry standard SOT-89 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 = 7.60V, Id = 227.04mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
20	23.67	26.68	10.58	14.58	1.02	0.48	42.07	25.55	1.32
30	23.31	26.20	11.52	14.33	1.02	0.46	43.44	25.61	1.26
40	23.07	25.98	11.89	13.69	1.03	0.45	44.27	27.19	1.18
50	22.92	25.89	12.17	13.33	1.03	0.44	43.89	27.07	1.14
60	22.82	25.81	12.34	13.12	1.03	0.44	44.16	26.97	1.17
70	22.75	25.76	12.41	12.98	1.03	0.44	44.36	26.84	1.15
80	22.71	25.74	12.49	12.91	1.04	0.44	45.15	27.59	1.11
90	22.67	25.73	12.51	12.83	1.04	0.44	44.59	27.33	1.12
100	22.65	25.72	12.54	12.80	1.04	0.44	45.12	27.19	1.14
150	22.57	25.71	12.56	12.77	1.04	0.44	44.81	27.24	1.10
200	22.51	25.73	12.47	12.88	1.05	0.45	44.63	27.40	1.10
250	22.46	25.78	12.33	13.00	1.05	0.47	44.55	27.53	1.15
300	22.41	25.83	12.18	13.18	1.05	0.48	45.14	27.51	1.21
350	22.36	25.90	12.02	13.40	1.06	0.50	44.77	27.63	1.19
400	22.30	25.98	11.83	13.59	1.06	0.52	46.04	27.58	1.17
450	22.24	26.06	11.66	13.87	1.07	0.54	45.59	27.68	1.18
500	22.18	26.15	11.45	14.09	1.07	0.56	45.35	27.61	1.21
550	22.11	26.26	11.31	14.37	1.08	0.59	46.38	27.56	1.22
600	22.05	26.37	11.10	14.59	1.09	0.61	46.32	27.71	1.23
650	21.97	26.49	10.90	14.82	1.10	0.63	46.85	27.50	1.21
700	21.89	26.63	10.73	14.96	1.11	0.65	47.17	27.70	1.18
750	21.81	26.77	10.61	15.10	1.12	0.68	48.57	27.73	1.27
800	21.72	26.92	10.47	15.14	1.13	0.70	47.99	27.74	1.24
850	21.65	27.07	10.38	15.16	1.14	0.72	50.84	27.46	1.26
900	21.58	27.22	10.25	15.10	1.15	0.74	51.44	27.52	1.26
950	21.50	27.38	10.12	14.97	1.16	0.75	50.11	27.89	1.28
1000	21.43	27.55	10.01	14.75	1.18	0.77	46.29	27.83	1.31
1100	21.27	27.91	9.93	14.13	1.21	0.80	51.85	27.43	1.33
1200	21.10	28.29	9.91	13.40	1.25	0.82	50.37	27.57	1.36
1300	20.94	28.69	9.99	12.63	1.28	0.84	51.40	27.73	1.39
1400	20.78	29.10	10.14	11.87	1.33	0.85	48.58	27.33	1.41
1500	20.62	29.53	10.37	11.15	1.37	0.86	48.18	27.31	1.48
1600	20.46	29.99	10.60	10.50	1.43	0.87	48.09	27.31	1.51
1700	20.28	30.44	10.70	9.91	1.47	0.88	46.99	27.12	1.52
1800	20.08	30.89	10.59	9.38	1.52	0.89	47.25	27.12	1.57
1900	19.83	31.43	10.14	8.91	1.58	0.91	47.10	27.17	1.67
2000	19.53	31.96	9.35	8.47	1.63	0.94	47.05	27.01	1.76
2100	19.17	32.51	8.34	8.08	1.67	0.97	47.66	26.92	1.89
2200	18.74	33.09	7.24	7.71	1.70	1.01	46.46	26.77	2.04
2300	18.22	33.65	6.18	7.39	1.73	1.05	46.42	26.48	2.18
2400	17.65	34.23	5.23	7.07	1.74	1.09	44.59	26.13	2.47
2500	17.00	34.79	4.41	6.78	1.75	1.13	46.66	26.43	2.70

Note: Test data of Die packaged in industry standard SOT-89 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 = 8.40V, Id = 248.49mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
20	23.66	26.71	10.61	14.67	1.03	0.49	41.25	26.31	1.47
30	23.30	26.23	11.49	14.45	1.02	0.47	42.11	26.25	1.38
40	23.05	26.02	11.86	13.80	1.03	0.46	43.01	28.04	1.28
50	22.91	25.89	12.03	13.43	1.03	0.45	43.25	27.72	1.23
60	22.81	25.85	12.23	13.22	1.03	0.45	43.17	27.69	1.31
70	22.74	25.80	12.32	13.08	1.04	0.44	44.26	27.47	1.26
80	22.69	25.78	12.39	13.01	1.04	0.44	43.43	28.45	1.21
90	22.66	25.77	12.39	12.93	1.04	0.44	44.00	28.06	1.24
100	22.64	25.76	12.42	12.90	1.04	0.44	44.16	27.89	1.26
150	22.55	25.75	12.43	12.86	1.04	0.45	43.60	28.00	1.29
200	22.50	25.78	12.35	12.95	1.05	0.46	43.84	28.16	1.22
250	22.45	25.82	12.22	13.06	1.05	0.48	43.61	28.28	1.25
300	22.40	25.88	12.05	13.22	1.05	0.49	44.20	28.27	1.27
350	22.35	25.94	11.91	13.41	1.06	0.51	43.68	28.39	1.30
400	22.29	26.02	11.72	13.57	1.06	0.53	44.32	28.34	1.28
450	22.23	26.10	11.58	13.82	1.07	0.55	44.19	28.44	1.29
500	22.17	26.20	11.38	14.01	1.08	0.57	44.25	28.40	1.32
550	22.11	26.30	11.22	14.23	1.08	0.59	45.13	28.38	1.33
600	22.04	26.42	11.03	14.40	1.09	0.61	44.74	28.49	1.32
650	21.96	26.54	10.85	14.57	1.10	0.63	44.94	28.33	1.32
700	21.88	26.68	10.68	14.66	1.11	0.65	45.33	28.49	1.28
750	21.80	26.82	10.55	14.74	1.12	0.68	45.66	28.53	1.39
800	21.72	26.97	10.42	14.73	1.13	0.70	45.59	28.56	1.34
850	21.64	27.12	10.35	14.72	1.14	0.72	46.38	28.33	1.36
900	21.57	27.28	10.21	14.63	1.16	0.73	46.66	28.39	1.40
950	21.50	27.44	10.10	14.48	1.17	0.75	46.46	28.68	1.37
1000	21.42	27.61	10.00	14.25	1.18	0.77	44.83	28.54	1.34
1100	21.26	27.98	9.92	13.65	1.21	0.79	46.29	28.27	1.43
1200	21.10	28.38	9.91	12.96	1.25	0.82	46.72	28.30	1.45
1300	20.94	28.79	10.00	12.23	1.29	0.83	46.74	28.48	1.45
1400	20.78	29.22	10.15	11.51	1.34	0.85	47.83	28.13	1.51
1500	20.62	29.66	10.38	10.83	1.39	0.86	47.33	28.04	1.58
1600	20.45	30.14	10.60	10.21	1.44	0.87	47.18	28.05	1.63
1700	20.27	30.62	10.70	9.64	1.49	0.88	47.14	27.84	1.65
1800	20.07	31.11	10.56	9.13	1.54	0.89	47.75	27.87	1.69
1900	19.82	31.67	10.10	8.66	1.60	0.91	47.53	27.93	1.79
2000	19.52	32.23	9.30	8.22	1.66	0.93	46.48	27.73	1.90
2100	19.16	32.80	8.29	7.83	1.70	0.96	46.25	27.64	2.04
2200	18.72	33.42	7.20	7.46	1.74	1.00	45.95	27.42	2.19
2300	18.21	33.99	6.14	7.13	1.76	1.04	46.59	27.26	2.33
2400	17.64	34.59	5.21	6.80	1.78	1.08	47.63	26.90	2.67
2500	16.99	35.15	4.39	6.51	1.78	1.11	50.61	27.18	2.91

Note: Test data of Die packaged in industry standard SOT-89 package