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: Id = 16mA, Vd = 3.51V @ Temperature = +25degC

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)
10	21.75	23.95	32.92	35.83	1.03	0.40	19.87	4.80	2.35
20	21.69	24.05	38.23	30.44	1.04	0.42	23.52	4.33	2.20
30	21.65	24.10	37.12	30.77	1.04	0.43	20.09	4.13	2.19
40	21.62	23.96	35.71	30.85	1.04	0.42	19.71	3.26	2.07
50	21.63	23.88	36.78	30.10	1.03	0.40	19.79	3.42	2.11
60	21.64	23.89	36.56	30.51	1.03	0.40	20.27	3.92	2.13
70	21.62	24.00	37	30.32	1.04	0.42	19.00	3.99	2.09
80	21.62	24.03	36.95	30.32	1.04	0.43	18.75	3.70	1.97
90	21.61	24.01	36.25	30.29	1.04	0.42	19.18	3.93	2.05
100	21.60	24.01	35.35	30.41	1.04	0.43	17.99	3.99	2.14
200	21.52	24.03	34.63	28.82	1.04	0.44	18.46	3.52	1.97
300	21.45	24.09	34.29	27.17	1.04	0.46	18.66	3.39	2.27
400	21.36	24.04	33.19	26.03	1.05	0.46	19.09	3.63	2.12
500	21.23	24.02	32.23	24.36	1.05	0.47	18.21	3.66	2.23
600	21.09	24.01	31.11	23.17	1.05	0.49	18.07	3.62	2.20
700	20.94	23.95	29.97	22.09	1.05	0.50	18.93	3.75	2.16
800	20.77	23.98	28.87	21.15	1.06	0.52	18.96	3.83	2.15
900	20.57	23.93	27.78	20.31	1.06	0.54	18.27	3.20	2.16
1000	20.38	23.92	26.91	19.59	1.07	0.55	17.38	3.35	2.20
1200	19.98	23.87	24.99	18.29	1.08	0.59	19.12	3.73	2.27
1400	19.53	23.79	23.26	17.29	1.10	0.62	18.50	3.54	2.21
1600	19.07	23.75	21.75	16.61	1.11	0.66	18.98	3.65	2.32
1800	18.64	23.67	20.26	15.99	1.13	0.69	19.50	3.79	2.26
2000	18.20	23.56	18.82	15.54	1.14	0.71	18.68	3.26	2.26
2200	17.80	23.46	17.59	15.12	1.15	0.74	19.03	3.17	2.36
2400	17.39	23.40	16.46	15.01	1.17	0.77	19.35	3.53	2.29
2600	17.02	23.32	15.37	14.92	1.18	0.79	19.18	3.31	2.43
2800	16.66	23.23	14.56	14.90	1.20	0.81	19.13	3.42	2.49
3000	16.34	23.17	13.66	14.83	1.21	0.83	18.95	3.28	2.38
3200	16.04	23.06	12.91	14.86	1.21	0.85	18.81	3.19	2.43
3400	15.73	23.00	12.45	15.07	1.23	0.87	18.84	3.56	2.50
3600	15.45	22.98	11.98	15.36	1.25	0.89	18.73	3.43	2.56
3800	15.28	22.86	11.39	15.14	1.24	0.90	18.83	3.64	2.61
4000	15.05	22.76	11.13	15.34	1.25	0.91	18.45	3.68	2.58
4200	14.85	22.71	10.94	15.53	1.26	0.92	18.14	3.51	2.56
4400	14.66	22.58	10.85	15.53	1.27	0.93	17.66	3.32	2.56
4600	14.53	22.48	10.63	15.30	1.26	0.93	17.63	2.99	2.62
4800	14.37	22.49	10.82	15.51	1.28	0.93	17.24	3.30	2.59
5000	14.26	22.39	10.86	15.32	1.28	0.93	16.60	2.88	2.74
5200	14.14	22.24	10.89	14.81	1.27	0.93	16.48	3.05	2.72
5400	14.07	22.24	11.16	14.68	1.29	0.93	15.80	3.06	2.72
5600	14.09	22.33	11.07	14.22	1.28	0.93	15.45	2.49	2.79
5800	14.00	22.27	11.07	13.66	1.28	0.93	14.88	2.54	2.74
6000	13.92	22.06	11.33	13.06	1.26	0.91	14.70	2.40	2.78

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: Id = 12mA, Vd = 3.49V @ Temperature = +25degC

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)
10	19.47	22.52	14.22	15.62	1.05	0.47	23.03	0.12	2.22
20	19.38	22.37	13.97	15.58	1.05	0.46	19.91	-0.07	2.38
30	19.32	22.40	13.86	15.53	1.05	0.47	22.41	-0.25	2.34
40	19.29	22.37	13.77	15.50	1.05	0.47	23.33	-0.87	2.21
50	19.31	22.30	13.93	15.63	1.05	0.46	21.61	-0.82	2.30
60	19.31	22.36	13.84	15.53	1.05	0.47	22.99	-0.40	2.36
70	19.30	22.40	13.89	15.60	1.05	0.48	19.25	-0.33	2.25
80	19.29	22.39	13.86	15.59	1.05	0.48	18.51	-0.55	2.14
90	19.28	22.42	13.81	15.61	1.05	0.48	19.65	-0.38	2.18
100	19.27	22.36	13.77	15.53	1.05	0.48	18.25	-0.36	2.40
200	19.21	22.38	13.76	15.64	1.05	0.49	18.41	-0.71	2.08
300	19.16	22.39	13.84	15.69	1.05	0.49	17.72	-0.84	2.53
400	19.11	22.40	13.90	15.71	1.05	0.51	18.63	-0.64	2.25
500	19.03	22.36	13.96	15.75	1.05	0.51	17.09	-0.70	2.42
600	18.93	22.38	13.99	15.77	1.05	0.53	16.54	-0.72	2.37
700	18.84	22.31	14.04	15.80	1.05	0.54	16.88	-0.65	2.32
800	18.71	22.32	14.02	15.84	1.05	0.56	16.50	-0.60	2.34
900	18.58	22.30	13.99	15.76	1.05	0.57	16.35	-1.11	2.66
1000	18.45	22.24	14.02	15.74	1.05	0.59	15.36	-0.97	2.35
1200	18.16	22.21	13.92	15.44	1.05	0.62	16.99	-0.76	2.46
1400	17.82	22.18	13.63	15.06	1.06	0.66	16.46	-0.93	2.39
1600	17.45	22.15	13.28	14.64	1.06	0.69	16.69	-0.87	2.49
1800	17.11	22.13	12.85	14.14	1.07	0.72	17.48	-0.78	2.38
2000	16.74	22.10	12.31	13.68	1.08	0.75	16.48	-1.21	2.36
2200	16.40	22.08	11.79	13.23	1.08	0.78	17.03	-1.33	2.48
2400	16.04	22.11	11.31	12.93	1.09	0.81	17.14	-0.99	2.42
2600	15.71	22.11	10.77	12.64	1.10	0.84	16.72	-1.20	2.53
2800	15.40	22.08	10.34	12.47	1.11	0.86	17.45	-1.06	2.60
3000	15.11	22.15	9.85	12.25	1.12	0.88	17.41	-1.12	2.46
3200	14.85	22.07	9.45	12.11	1.12	0.90	17.79	-1.19	2.57
3400	14.58	22.08	9.20	12.15	1.14	0.92	17.66	-0.88	2.55
3600	14.34	22.11	8.95	12.26	1.16	0.93	18.41	-0.88	2.60
3800	14.20	22.04	8.59	12.07	1.14	0.95	18.94	-0.55	2.63
4000	14.01	22.04	8.45	12.21	1.16	0.96	19.00	-0.42	2.59
4200	13.84	22.03	8.38	12.40	1.17	0.97	18.52	-0.44	2.61
4400	13.70	21.98	8.35	12.51	1.18	0.98	18.35	-0.40	2.58
4600	13.61	21.91	8.23	12.46	1.17	0.98	18.59	-0.57	2.65
4800	13.47	21.99	8.41	12.76	1.21	0.99	17.32	0.03	2.66
5000	13.39	21.90	8.46	12.83	1.21	0.99	16.81	-0.32	2.79
5200	13.31	21.85	8.50	12.66	1.20	0.99	15.87	0.22	2.79
5400	13.27	21.82	8.72	12.76	1.21	0.99	15.52	0.56	2.77
5600	13.30	21.91	8.66	12.50	1.21	0.99	14.84	-0.15	2.90
5800	13.25	21.89	8.68	12.27	1.20	0.99	14.08	0.30	2.85
6000	13.19	21.70	8.87	12.10	1.19	0.98	14.08	0.33	2.89

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: Id = 20mA, Vd = 3.52V @ Temperature = +25degC

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)
10	22.97	25.99	18.81	15.85	1.05	0.46	20.53	7.89	2.37
20	22.88	25.32	19.50	16.36	1.03	0.39	24.99	7.42	2.11
30	22.85	25.29	19.59	16.42	1.03	0.39	21.76	7.23	2.13
40	22.83	25.25	19.78	16.40	1.03	0.39	20.54	6.17	2.05
50	22.83	25.15	19.62	16.23	1.03	0.38	21.18	6.38	2.04
60	22.84	25.05	19.61	16.43	1.03	0.36	22.37	6.99	2.06
70	22.82	25.21	19.62	16.35	1.03	0.39	20.52	6.99	2.01
80	22.82	25.16	19.66	16.39	1.03	0.38	20.61	6.67	1.95
90	22.81	25.23	19.71	16.35	1.03	0.39	20.94	6.97	1.97
100	22.80	25.24	19.85	16.37	1.03	0.39	19.84	7.02	2.04
200	22.71	25.19	19.99	16.29	1.03	0.40	20.30	6.47	1.95
300	22.61	25.25	20.13	16.23	1.04	0.42	20.66	6.33	2.17
400	22.50	25.20	20.27	16.24	1.04	0.43	21.33	6.69	2.07
500	22.34	25.15	20.52	16.03	1.04	0.44	20.48	6.72	2.19
600	22.17	25.16	20.76	15.89	1.05	0.46	20.62	6.64	2.13
700	21.99	25.16	21.09	15.70	1.06	0.48	21.00	6.81	2.15
800	21.78	25.08	21.49	15.54	1.06	0.49	21.53	6.90	2.06
900	21.55	25.07	21.93	15.34	1.07	0.51	20.48	6.23	2.11
1000	21.32	24.99	22.35	15.18	1.08	0.53	19.92	6.34	2.14
1200	20.85	24.89	23.27	14.87	1.09	0.56	21.47	6.82	2.23
1400	20.35	24.75	24.47	14.56	1.11	0.59	21.02	6.59	2.16
1600	19.84	24.64	25.42	14.46	1.13	0.63	21.53	6.71	2.25
1800	19.37	24.49	25.57	14.34	1.15	0.66	21.78	6.84	2.23
2000	18.90	24.29	24.44	14.28	1.16	0.68	20.86	6.27	2.22
2200	18.47	24.16	22.76	14.26	1.17	0.71	21.41	6.18	2.35
2400	18.03	24.05	21.11	14.43	1.19	0.73	21.16	6.50	2.48
2600	17.64	23.91	19.36	14.64	1.21	0.76	21.08	6.19	2.38
2800	17.26	23.75	18.09	14.87	1.22	0.78	20.88	6.26	2.51
3000	16.93	23.61	16.70	15.06	1.23	0.80	20.67	6.00	2.39
3200	16.61	23.46	15.58	15.33	1.24	0.82	20.36	5.91	2.40
3400	16.29	23.40	14.85	15.70	1.26	0.84	19.81	6.15	2.46
3600	15.99	23.29	14.18	16.19	1.27	0.85	19.68	5.91	2.55
3800	15.81	23.06	13.35	16.10	1.26	0.86	19.54	5.99	2.52
4000	15.56	22.96	12.96	16.35	1.27	0.87	19.12	5.86	2.58
4200	15.34	22.88	12.69	16.51	1.28	0.88	18.77	5.58	2.57
4400	15.14	22.72	12.51	16.45	1.28	0.89	18.36	5.28	2.57
4600	15.00	22.56	12.22	16.09	1.27	0.89	18.12	4.89	2.58
4800	14.82	22.58	12.41	16.19	1.29	0.89	17.59	4.91	2.58
5000	14.70	22.47	12.44	15.81	1.29	0.89	17.11	4.50	2.70
5200	14.57	22.29	12.45	15.12	1.28	0.89	16.99	4.44	2.74
5400	14.49	22.28	12.77	14.87	1.29	0.88	16.25	4.19	2.67
5600	14.49	22.36	12.65	14.35	1.29	0.89	15.93	3.78	2.75
5800	14.40	22.27	12.67	13.68	1.28	0.88	15.45	3.60	2.72
6000	14.30	22.10	12.97	12.88	1.27	0.86	15.12	3.37	2.73

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