

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 = 5V, Id = 134.69 mA @ Temperature = +25degC

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)
20	19.46	23.74	7.35	9.70	0.90	0.69	38.74	22.12	1.85
30	18.68	22.49	9.08	11.45	0.92	0.67	39.26	22.80	1.85
40	18.11	21.81	10.67	13.11	0.96	0.65	39.00	22.96	1.82
50	17.71	21.33	12.10	14.56	0.99	0.63	38.54	22.68	1.76
60	17.42	21.37	13.22	15.96	1.02	0.65	39.62	22.57	1.82
70	17.24	21.13	14.24	16.97	1.04	0.64	39.57	22.73	1.84
80	17.10	21.04	15.11	17.99	1.05	0.63	39.96	22.77	1.84
90	17.00	20.95	15.86	18.82	1.06	0.63	40.62	22.76	1.84
100	16.92	20.89	16.48	19.59	1.07	0.63	40.68	22.96	1.84
200	16.61	20.76	19.79	24.15	1.10	0.63	42.77	22.66	1.80
400	16.39	20.70	20.53	26.61	1.11	0.64	42.99	22.68	2.03
600	16.18	20.57	19.63	26.42	1.12	0.65	43.74	22.75	2.08
800	15.93	20.52	18.38	25.57	1.12	0.67	43.66	22.69	1.98
1000	15.63	20.43	17.17	24.39	1.13	0.69	43.25	22.55	2.07
1200	15.31	20.29	16.02	23.38	1.14	0.71	45.00	22.71	2.10
1400	14.96	20.15	15.06	22.33	1.14	0.73	44.89	22.71	2.13
1600	14.60	20.00	14.26	21.50	1.15	0.75	43.74	22.83	2.19
1800	14.24	19.85	13.58	20.56	1.15	0.77	43.96	22.65	2.25
2000	13.89	19.67	13.03	19.83	1.15	0.79	43.45	22.76	2.24
2200	13.54	19.50	12.60	19.20	1.16	0.81	43.40	22.56	2.29
2400	13.21	19.29	12.23	18.55	1.16	0.82	44.03	22.89	2.32
2600	12.87	19.13	12.04	18.03	1.16	0.84	43.68	22.98	2.37
2800	12.58	18.93	11.81	17.40	1.16	0.85	42.22	22.80	2.51
3000	12.31	18.73	11.57	16.79	1.16	0.85	43.63	22.83	2.49
3200	12.03	18.55	11.52	16.41	1.16	0.86	42.35	23.08	2.53
3400	11.75	18.30	11.31	16.19	1.15	0.87	41.75	22.90	2.60
3600	11.56	18.10	11.09	15.75	1.14	0.87	41.62	22.95	2.68
3800	11.30	17.98	11.04	15.72	1.15	0.88	41.26	22.93	2.72
4000	11.11	17.72	10.66	15.54	1.14	0.88	40.64	22.94	2.80
4200	10.93	17.54	10.41	15.43	1.13	0.89	41.08	22.97	2.90
4400	10.68	17.27	10.02	15.58	1.12	0.90	40.44	22.79	3.02
4600	10.58	17.05	9.59	15.18	1.09	0.90	40.21	22.91	3.00
4800	10.45	16.92	9.29	15.01	1.08	0.91	40.12	22.82	3.10
5000	10.33	16.79	9.00	14.92	1.06	0.92	40.31	23.02	3.21
5200	10.14	16.58	8.73	15.06	1.05	0.93	39.70	22.74	3.21
5400	10.05	16.43	8.53	14.99	1.04	0.94	40.26	22.86	3.28
5600	9.91	16.15	8.22	14.62	1.01	0.94	40.00	22.53	3.36
5800	9.79	15.85	7.99	14.48	0.99	0.94	39.70	22.38	3.42
6000	9.76	15.63	7.95	14.51	0.98	0.94	39.71	22.11	3.51
6200	9.72	15.34	7.77	14.28	0.95	0.93	39.62	22.14	3.53
6400	9.71	15.13	7.61	13.73	0.92	0.93	38.89	21.92	3.63
6600	9.74	14.84	7.53	13.70	0.90	0.91	38.81	21.65	3.70
6800	9.63	14.59	7.20	13.52	0.88	0.91	38.86	21.72	3.79
7000	9.50	14.32	6.98	13.47	0.87	0.91	38.29	21.65	3.93
7200	9.38	14.05	6.52	13.51	0.86	0.91	39.10	21.74	4.09
7400	9.11	13.94	6.06	13.19	0.85	0.92	38.08	21.56	4.20
7600	8.68	13.90	5.51	12.59	0.85	0.95	38.05	21.64	4.41
7800	8.22	13.91	4.92	11.79	0.85	0.99	38.14	21.25	4.67
8000	7.59	13.83	4.62	11.17	0.87	1.00	37.75	21.24	4.89

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: Vd = 4.75V, Id = 120.33 mA @ Temperature = +25degC

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)			(dBm)	(dBm)	(dB)
20	19.41	23.76	7.23	9.65	0.89	0.70	37.67	21.43	1.79
30	18.64	22.40	8.93	11.35	0.91	0.67	38.68	22.13	1.84
40	18.06	21.80	10.52	12.99	0.96	0.66	38.18	22.28	1.78
50	17.65	21.39	11.96	14.48	0.99	0.64	38.19	22.02	1.73
60	17.36	21.01	13.18	15.88	1.01	0.62	39.04	21.98	1.77
70	17.17	21.02	14.07	16.84	1.03	0.63	39.03	22.07	1.81
80	17.03	20.96	14.94	17.82	1.05	0.63	39.69	22.10	1.80
90	16.93	20.89	15.70	18.68	1.06	0.63	40.38	22.13	1.79
100	16.84	20.81	16.32	19.41	1.06	0.63	39.97	22.30	1.82
200	16.52	20.66	19.62	23.93	1.10	0.63	42.60	22.02	1.78
400	16.31	20.58	20.35	26.22	1.11	0.64	46.42	22.03	1.99
600	16.10	20.53	19.52	25.91	1.12	0.65	44.65	22.14	2.06
800	15.84	20.45	18.30	25.00	1.12	0.67	42.62	22.07	1.98
1000	15.55	20.34	17.10	23.76	1.13	0.69	41.77	21.94	2.02
1200	15.22	20.21	15.97	22.75	1.13	0.71	41.16	22.11	2.08
1400	14.88	20.07	15.00	21.72	1.14	0.73	41.20	22.08	2.07
1600	14.52	19.92	14.20	20.89	1.15	0.75	40.17	22.21	2.13
1800	14.16	19.74	13.54	20.00	1.15	0.77	39.50	21.98	2.22
2000	13.81	19.60	12.98	19.31	1.15	0.79	39.53	22.08	2.18
2200	13.45	19.42	12.58	18.72	1.16	0.81	39.15	21.96	2.27
2400	13.13	19.21	12.20	18.13	1.15	0.82	39.86	22.25	2.28
2600	12.79	19.01	12.03	17.69	1.16	0.83	39.74	22.30	2.35
2800	12.49	18.82	11.79	17.13	1.16	0.84	39.01	22.13	2.48
3000	12.23	18.62	11.57	16.57	1.15	0.85	39.19	22.18	2.47
3200	11.95	18.44	11.52	16.26	1.15	0.86	39.15	22.39	2.48
3400	11.67	18.20	11.31	16.04	1.15	0.86	38.68	22.23	2.58
3600	11.48	17.99	11.10	15.66	1.14	0.87	38.55	22.30	2.59
3800	11.22	17.88	11.05	15.69	1.15	0.88	38.77	22.30	2.73
4000	11.04	17.62	10.69	15.48	1.13	0.88	38.10	22.28	2.79
4200	10.85	17.42	10.42	15.43	1.13	0.89	38.20	22.28	2.85
4400	10.60	17.17	10.05	15.53	1.12	0.90	38.08	22.13	2.99
4600	10.50	16.95	9.63	15.19	1.09	0.90	38.11	22.29	2.97
4800	10.37	16.81	9.33	15.05	1.08	0.91	37.91	22.16	3.08
5000	10.26	16.68	9.04	14.99	1.06	0.92	38.28	22.38	3.14
5200	10.07	16.47	8.78	15.12	1.06	0.93	37.73	22.08	3.18
5400	9.97	16.36	8.58	15.07	1.05	0.94	38.28	22.18	3.24
5600	9.83	16.04	8.26	14.71	1.02	0.94	37.83	21.90	3.32
5800	9.72	15.79	8.04	14.56	0.99	0.94	37.51	21.76	3.41
6000	9.69	15.54	8.00	14.63	0.98	0.93	37.45	21.48	3.48
6200	9.65	15.26	7.83	14.41	0.95	0.93	37.18	21.55	3.50
6400	9.63	15.06	7.68	13.88	0.93	0.92	36.64	21.31	3.59
6600	9.66	14.75	7.60	13.84	0.91	0.91	36.27	21.06	3.64
6800	9.55	14.53	7.27	13.62	0.89	0.91	36.42	21.11	3.75
7000	9.43	14.26	7.04	13.53	0.88	0.91	36.00	21.01	3.91
7200	9.30	14.00	6.57	13.48	0.86	0.90	36.68	21.15	4.02
7400	9.03	13.92	6.12	13.10	0.86	0.92	35.73	20.91	4.15
7600	8.60	13.87	5.57	12.43	0.86	0.94	35.80	21.04	4.34
7800	8.15	13.86	4.96	11.60	0.86	0.97	35.37	20.59	4.60
8000	7.52	13.80	4.66	10.96	0.87	0.99	35.14	20.60	4.84

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 = 5.25V, Id = 148.69 mA @ Temperature = +25degC

FREQ (MHz)	Gain (dB)	Isolation (dB)	Input Return Loss (dB)	Output Return Loss (dB)	Stability		IP-3 Output (dBm)	1dB Comp. Output (dBm)	Noise Figure (dB)
					K	Measure			
20	19.47	23.72	7.50	9.78	0.90	0.69	37.94	22.56	2.11
30	18.70	22.49	9.23	11.52	0.93	0.66	39.36	23.33	2.05
40	18.13	21.87	10.82	13.20	0.96	0.65	38.78	23.51	2.01
50	17.74	21.39	12.21	14.63	0.99	0.63	38.92	23.26	1.97
60	17.46	21.46	13.51	16.09	1.03	0.65	39.88	23.08	2.00
70	17.28	21.18	14.40	17.10	1.04	0.64	39.76	23.26	2.02
80	17.15	21.08	15.27	18.11	1.05	0.63	40.10	23.29	2.02
90	17.04	21.03	16.02	18.98	1.06	0.63	40.58	23.29	2.01
100	16.97	20.97	16.61	19.75	1.07	0.63	40.71	23.52	2.03
200	16.66	20.80	19.95	24.50	1.10	0.63	42.43	23.20	1.99
400	16.45	20.75	20.63	27.05	1.11	0.64	43.87	23.19	2.20
600	16.24	20.66	19.70	27.04	1.12	0.65	44.26	23.25	2.26
800	15.98	20.58	18.44	26.14	1.12	0.67	46.05	23.20	2.17
1000	15.69	20.48	17.20	24.97	1.13	0.69	44.44	23.05	2.27
1200	15.36	20.38	16.05	23.95	1.14	0.71	46.53	23.24	2.28
1400	15.02	20.21	15.07	22.87	1.14	0.73	46.18	23.21	2.32
1600	14.66	20.09	14.26	22.00	1.15	0.76	45.56	23.36	2.38
1800	14.30	19.94	13.60	21.02	1.16	0.78	45.91	23.17	2.44
2000	13.95	19.74	13.04	20.22	1.16	0.79	43.58	23.30	2.44
2200	13.59	19.59	12.61	19.51	1.16	0.81	45.19	23.11	2.50
2400	13.26	19.37	12.21	18.81	1.16	0.83	44.45	23.47	2.48
2600	12.93	19.23	12.03	18.23	1.17	0.84	43.21	23.52	2.57
2800	12.63	19.01	11.79	17.53	1.16	0.85	42.66	23.33	2.75
3000	12.36	18.80	11.56	16.89	1.16	0.86	43.57	23.36	2.69
3200	12.08	18.64	11.49	16.47	1.16	0.86	42.66	23.58	2.75
3400	11.80	18.41	11.29	16.22	1.16	0.87	41.84	23.42	2.82
3600	11.61	18.19	11.05	15.74	1.15	0.87	41.56	23.48	2.91
3800	11.35	18.10	11.02	15.71	1.16	0.88	41.45	23.45	3.00
4000	11.16	17.83	10.63	15.47	1.14	0.89	41.01	23.43	3.07
4200	10.97	17.64	10.36	15.38	1.13	0.89	41.27	23.43	3.14
4400	10.73	17.35	9.98	15.52	1.12	0.90	40.74	23.26	3.28
4600	10.62	17.14	9.54	15.12	1.09	0.91	40.63	23.41	3.28
4800	10.49	16.99	9.24	14.92	1.08	0.92	40.39	23.28	3.33
5000	10.38	16.89	8.95	14.80	1.06	0.93	40.39	23.50	3.45
5200	10.19	16.68	8.69	14.93	1.05	0.94	40.03	23.20	3.50
5400	10.10	16.52	8.48	14.86	1.04	0.94	40.41	23.34	3.61
5600	9.95	16.19	8.15	14.46	1.01	0.95	39.90	23.00	3.66
5800	9.84	15.94	7.93	14.33	0.99	0.95	39.88	22.85	3.75
6000	9.81	15.71	7.88	14.36	0.97	0.94	39.61	22.55	3.81
6200	9.77	15.39	7.71	14.13	0.94	0.93	39.67	22.61	3.84
6400	9.75	15.18	7.54	13.58	0.92	0.93	38.71	22.36	3.93
6600	9.78	14.89	7.46	13.51	0.90	0.92	38.89	22.12	4.05
6800	9.67	14.65	7.14	13.39	0.88	0.92	39.11	22.15	4.15
7000	9.55	14.36	6.91	13.35	0.86	0.92	38.60	22.07	4.29
7200	9.42	14.09	6.45	13.45	0.85	0.92	39.30	22.21	4.40
7400	9.15	13.97	6.00	13.19	0.85	0.93	38.61	21.98	4.52
7600	8.72	13.95	5.45	12.67	0.85	0.96	38.44	22.12	4.79
7800	8.26	13.92	4.86	11.91	0.84	1.00	38.71	21.70	5.06
8000	7.62	13.85	4.57	11.32	0.86	1.01	38.48	21.53	5.29

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

