

## 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 = 5.00V, Id=101.48mA @ 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)
100	10.56	20.40	48.28	20.31	1.70	0.89	41.04	19.03	7.25
300	10.40	20.59	38.03	22.53	1.75	0.90	42.23	19.20	7.22
600	10.48	20.45	31.41	21.69	1.72	0.89	42.87	19.34	7.29
900	10.47	20.45	27.44	21.40	1.72	0.90	45.27	19.31	7.30
1000	10.47	20.45	26.33	21.23	1.72	0.90	42.35	19.49	7.31
1200	10.38	20.48	25.26	18.95	1.73	0.90	40.75	19.13	7.37
1400	10.30	20.50	24.05	19.31	1.74	0.90	41.94	19.09	7.42
1600	10.21	20.59	22.63	16.62	1.75	0.90	40.44	19.59	7.46
1800	10.03	20.67	21.42	16.96	1.78	0.91	38.83	18.90	7.45
2000	9.83	20.78	20.13	15.22	1.82	0.91	37.80	19.03	7.42
2200	9.72	20.89	19.41	15.41	1.86	0.92	38.83	19.62	7.44
2400	9.56	20.99	18.28	14.66	1.88	0.92	37.10	18.90	7.47
2600	9.46	20.97	17.19	14.49	1.90	0.93	36.68	19.38	7.53
2800	9.33	21.05	16.60	15.02	1.94	0.94	36.57	19.67	7.50
3000	9.22	21.14	15.95	15.07	1.97	0.94	34.21	19.33	7.48
3200	9.14	21.23	15.75	16.11	2.01	0.95	35.34	19.27	7.56
3400	9.04	21.34	15.64	16.33	2.05	0.96	36.58	19.73	7.62
3600	8.92	21.42	15.63	16.23	2.11	0.96	34.92	19.23	7.65
3800	8.83	21.48	16.23	16.98	2.15	0.96	34.22	19.14	7.69
4000	8.72	21.63	16.21	15.50	2.19	0.96	32.79	18.88	7.72
4200	8.66	21.71	16.97	15.43	2.23	0.95	33.51	19.14	7.75
4400	8.56	21.77	17.89	14.41	2.27	0.94	33.76	19.16	7.81
4600	8.43	21.91	18.45	13.58	2.32	0.94	33.39	18.65	7.82
4800	8.32	22.05	19.99	12.86	2.35	0.92	33.78	19.00	7.85
5000	8.15	22.22	20.89	12.04	2.43	0.91	32.75	18.23	7.90
5200	8.10	22.29	21.35	11.82	2.46	0.91	33.32	18.79	7.93
5400	8.04	22.39	22.64	11.61	2.50	0.91	32.39	18.34	8.00
5600	7.98	22.50	23.16	11.80	2.54	0.91	33.15	18.05	8.08
5800	7.98	22.52	21.78	12.24	2.57	0.92	33.65	18.45	8.15
6000	7.91	22.57	22.47	12.40	2.61	0.92	32.41	18.04	8.19
6200	7.83	22.57	19.99	13.16	2.64	0.94	32.70	17.63	8.24
6400	7.76	22.46	18.31	14.26	2.65	0.95	33.17	18.07	8.33
6600	7.72	22.49	17.10	14.37	2.67	0.96	31.76	17.31	8.45
6800	7.67	22.44	14.63	16.20	2.68	0.99	31.85	17.01	8.52
7000	7.52	22.36	13.54	17.29	2.67	1.00	32.37	17.51	8.62
7200	7.30	22.36	12.44	13.85	2.65	1.00	30.38	16.31	8.73
7400	6.95	22.50	11.09	14.48	2.77	1.03	31.31	16.42	8.84
7600	6.62	22.58	10.46	12.12	2.80	1.02	30.84	16.38	8.94
7800	6.14	22.59	9.54	10.07	2.80	1.01	29.17	15.25	9.12
8000	5.61	22.76	9.08	9.19	2.90	1.00	30.17	15.52	9.27

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=92.73mA @ 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)
100	10.55	20.39	43.84	20.17	1.70	0.89	39.22	18.27	7.13
300	10.46	20.51	35.07	22.64	1.74	0.90	39.19	18.42	7.09
600	10.47	20.45	31.59	20.79	1.72	0.89	41.14	18.54	7.17
900	10.46	20.47	27.45	20.82	1.71	0.90	41.73	18.54	7.21
1000	10.42	20.41	26.23	20.91	1.71	0.90	42.46	18.70	7.20
1200	10.34	20.45	25.13	19.12	1.73	0.90	40.40	18.38	7.25
1400	10.28	20.46	23.91	18.69	1.74	0.90	38.89	18.35	7.30
1600	10.15	20.53	22.53	16.39	1.75	0.90	40.01	18.80	7.36
1800	9.99	20.62	21.33	16.54	1.78	0.91	37.40	18.19	7.34
2000	9.82	20.74	20.04	15.33	1.81	0.91	38.11	18.30	7.31
2200	9.66	20.80	19.29	15.36	1.85	0.92	37.54	18.78	7.33
2400	9.52	20.91	18.17	14.58	1.88	0.92	35.91	18.19	7.36
2600	9.40	20.93	17.10	14.50	1.89	0.93	35.80	18.59	7.42
2800	9.27	21.00	16.41	15.04	1.93	0.94	36.03	18.87	7.40
3000	9.16	21.07	15.82	14.94	1.97	0.94	33.42	18.61	7.36
3200	9.08	21.16	15.65	15.99	2.00	0.95	34.44	18.51	7.44
3400	8.98	21.24	15.49	16.13	2.04	0.96	36.20	19.02	7.50
3600	8.87	21.31	15.58	16.29	2.08	0.96	34.69	18.54	7.53
3800	8.77	21.35	16.14	16.73	2.13	0.96	33.32	18.72	7.57
4000	8.69	21.52	16.15	15.47	2.17	0.96	32.95	18.74	7.62
4200	8.59	21.59	16.85	15.25	2.21	0.95	32.94	18.49	7.66
4400	8.46	21.65	17.84	14.05	2.24	0.94	33.47	18.54	7.69
4600	8.36	21.80	18.29	13.37	2.29	0.93	32.92	18.03	7.71
4800	8.24	21.94	19.96	12.58	2.35	0.92	33.28	18.41	7.75
5000	8.08	22.08	20.84	11.95	2.41	0.91	31.79	17.66	7.77
5200	8.02	22.18	21.08	12.01	2.44	0.91	33.19	18.23	7.80
5400	7.96	22.25	22.40	11.49	2.49	0.90	31.77	17.81	7.88
5600	7.89	22.35	22.89	11.67	2.52	0.91	32.29	17.51	7.95
5800	7.88	22.38	21.63	12.15	2.54	0.92	32.54	17.90	8.03
6000	7.80	22.41	22.17	12.13	2.59	0.92	32.03	17.55	8.06
6200	7.73	22.42	19.92	13.03	2.63	0.93	32.24	17.10	8.12
6400	7.64	22.35	18.11	14.25	2.64	0.95	32.62	17.57	8.22
6600	7.58	22.33	16.96	14.47	2.66	0.96	31.23	16.82	8.30
6800	7.51	22.28	14.46	15.90	2.68	0.99	31.65	16.51	8.38
7000	7.40	22.24	13.56	17.15	2.67	1.00	31.41	17.03	8.48
7200	7.16	22.24	12.38	13.57	2.64	1.00	30.00	15.84	8.60
7400	6.82	22.38	10.98	14.41	2.76	1.03	30.52	15.92	8.71
7600	6.47	22.48	10.39	12.23	2.81	1.02	30.33	15.91	8.79
7800	6.00	22.53	9.53	10.04	2.80	1.01	28.49	14.78	8.96
8000	5.45	22.63	9.01	9.09	2.89	1.00	29.47	15.04	9.13

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=110.31mA @ 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)
100	10.61	20.46	46.87	20.40	1.70	0.89	44.13	19.72	7.36
300	10.58	20.62	36.62	22.90	1.74	0.90	45.37	19.91	7.33
600	10.49	20.49	30.65	21.65	1.72	0.90	44.44	20.06	7.38
900	10.50	20.51	27.65	21.00	1.72	0.90	45.19	20.02	7.41
1000	10.47	20.50	26.29	21.31	1.72	0.90	43.81	20.22	7.41
1200	10.40	20.52	25.19	19.09	1.72	0.90	40.67	19.81	7.47
1400	10.34	20.54	24.20	19.05	1.74	0.90	40.18	19.78	7.54
1600	10.23	20.60	22.71	16.75	1.75	0.90	47.08	20.34	7.59
1800	10.06	20.70	21.46	16.97	1.79	0.91	40.79	19.55	7.59
2000	9.87	20.82	20.27	15.41	1.83	0.91	40.80	19.73	7.53
2200	9.72	20.94	19.39	15.47	1.87	0.92	40.28	20.35	7.54
2400	9.59	21.06	18.36	15.08	1.89	0.92	38.35	19.56	7.59
2600	9.49	21.03	17.24	14.75	1.91	0.93	37.87	20.07	7.65
2800	9.35	21.15	16.67	15.05	1.95	0.94	37.90	20.32	7.64
3000	9.24	21.24	16.10	14.98	1.98	0.94	34.79	19.95	7.61
3200	9.15	21.30	15.82	16.28	2.03	0.95	34.88	19.87	7.68
3400	9.06	21.42	15.62	16.53	2.08	0.96	36.52	20.28	7.74
3600	8.96	21.48	15.72	16.82	2.11	0.96	35.62	19.72	7.77
3800	8.90	21.56	16.30	16.93	2.16	0.96	34.53	19.28	7.80
4000	8.79	21.71	16.30	15.97	2.20	0.96	33.38	18.97	7.86
4200	8.70	21.82	17.01	15.49	2.24	0.95	33.47	19.53	7.89
4400	8.58	21.89	18.00	14.34	2.28	0.94	34.66	19.64	7.94
4600	8.47	22.03	18.50	13.51	2.32	0.94	33.35	19.18	7.95
4800	8.36	22.16	20.17	12.74	2.38	0.92	33.67	19.44	8.01
5000	8.22	22.34	21.00	12.00	2.45	0.91	33.40	18.73	8.04
5200	8.16	22.41	21.35	11.97	2.49	0.91	33.87	19.23	8.08
5400	8.07	22.53	22.59	11.80	2.53	0.91	32.99	18.77	8.14
5600	8.05	22.64	23.24	11.78	2.56	0.91	33.31	18.51	8.20
5800	8.05	22.66	22.02	12.10	2.58	0.92	33.69	18.89	8.31
6000	7.98	22.71	22.62	12.12	2.62	0.92	32.97	18.44	8.32
6200	7.91	22.72	20.12	13.20	2.67	0.94	32.55	18.10	8.38
6400	7.86	22.60	18.39	14.03	2.67	0.95	33.47	18.46	8.48
6600	7.78	22.62	17.12	14.61	2.67	0.96	31.89	17.72	8.57
6800	7.70	22.61	14.74	16.48	2.69	0.99	32.31	17.45	8.68
7000	7.64	22.48	13.61	17.25	2.67	1.00	32.86	17.89	8.79
7200	7.42	22.53	12.49	13.89	2.67	1.00	30.84	16.74	8.89
7400	7.08	22.62	11.08	14.75	2.78	1.03	31.62	16.86	9.01
7600	6.74	22.70	10.46	12.41	2.79	1.02	31.17	16.80	9.09
7800	6.26	22.69	9.62	10.18	2.80	1.01	29.97	15.68	9.25
8000	5.73	22.90	9.08	9.31	2.90	1.01	30.65	15.82	9.41

Note: Test data of die packaged in industry standard SOT-89 Package