

## 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 = 9V, Id = 190.68 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)
50	15.27	20.39	11.33	14.18	1.13	0.67	48.57	25.93	4.12
100	15.49	20.63	12.58	12.60	1.14	0.63	45.82	26.49	4.04
150	15.51	20.74	12.56	12.06	1.14	0.63	45.50	26.41	3.98
200	15.52	20.77	12.55	11.88	1.14	0.62	45.27	26.63	3.89
250	15.51	20.81	12.52	11.78	1.14	0.62	44.99	26.48	4.01
300	15.50	20.85	12.47	11.71	1.15	0.63	44.46	26.66	4.04
350	15.48	20.82	12.45	11.63	1.14	0.62	43.54	26.67	4.10
400	15.46	20.84	12.39	11.58	1.15	0.63	43.35	26.45	4.08
450	15.44	20.84	12.33	11.52	1.15	0.63	42.92	26.55	4.08
500	15.42	20.87	12.26	11.43	1.15	0.63	42.77	26.47	4.12
550	15.40	20.91	12.17	11.36	1.15	0.63	42.68	26.58	4.09
600	15.38	20.89	12.16	11.31	1.15	0.63	42.55	26.39	4.10
650	15.36	20.89	12.04	11.25	1.15	0.63	42.78	26.40	4.09
700	15.33	20.93	12.00	11.22	1.16	0.63	43.22	26.53	4.10
750	15.32	20.92	11.90	11.12	1.16	0.63	43.07	26.57	4.05
800	15.30	20.97	11.81	11.02	1.16	0.64	43.31	26.55	4.03
850	15.28	20.99	11.74	10.96	1.16	0.64	43.68	26.64	4.02
1000	15.21	21.07	11.42	10.63	1.16	0.64	44.91	26.60	4.14
1050	15.20	21.10	11.27	10.49	1.17	0.64	44.91	26.52	4.12
1100	15.18	21.14	11.20	10.39	1.17	0.64	45.25	26.57	4.12
1150	15.15	21.17	11.08	10.26	1.17	0.64	45.14	26.71	4.18
1200	15.13	21.23	10.99	10.12	1.17	0.64	46.20	26.48	4.20
1250	15.11	21.28	10.87	10.01	1.18	0.65	46.47	26.54	4.15
1300	15.08	21.36	10.74	9.83	1.18	0.65	46.16	26.23	4.20
1350	15.04	21.42	10.68	9.70	1.18	0.65	47.37	26.34	4.20
1400	15.05	21.45	10.53	9.64	1.18	0.65	46.77	26.14	4.21
1450	15.04	21.53	10.38	9.50	1.19	0.65	46.13	26.14	4.23
1500	15.02	21.54	10.28	9.37	1.19	0.65	44.94	26.19	4.20
1550	14.99	21.66	10.15	9.24	1.19	0.65	43.39	26.07	4.26
1600	14.97	21.71	10.09	9.10	1.20	0.65	43.61	25.97	4.28
1650	14.94	21.78	9.93	8.94	1.20	0.65	44.29	25.99	4.29
1700	14.90	21.89	9.83	8.81	1.21	0.66	42.39	25.70	4.23
1750	14.87	22.02	9.75	8.70	1.22	0.66	41.46	25.76	4.36
1800	14.81	22.13	9.61	8.57	1.23	0.67	41.62	25.63	4.32
1850	14.76	22.21	9.56	8.42	1.23	0.67	41.39	25.52	4.52
1900	14.70	22.38	9.39	8.28	1.25	0.67	41.32	25.48	4.44
1950	14.62	22.53	9.30	8.13	1.26	0.68	41.07	25.42	4.47
2000	14.50	22.71	9.23	8.00	1.28	0.69	40.75	25.27	4.50

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 = 8.5V, Id = 177.90 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)
50	15.25	20.62	11.33	14.22	1.15	0.69	48.81	25.41	4.02
100	15.47	20.66	12.53	12.62	1.14	0.63	45.09	25.95	3.98
150	15.49	20.75	12.53	12.07	1.14	0.63	45.04	25.86	3.89
200	15.50	20.77	12.50	11.87	1.14	0.63	44.50	26.09	3.84
250	15.49	20.83	12.47	11.77	1.15	0.63	43.32	25.94	3.95
300	15.47	20.81	12.41	11.68	1.14	0.63	43.46	26.14	3.96
350	15.46	20.85	12.40	11.62	1.15	0.63	41.84	26.13	4.03
400	15.43	20.86	12.32	11.57	1.15	0.63	41.74	25.91	4.04
450	15.42	20.88	12.29	11.53	1.15	0.63	41.61	26.01	4.04
500	15.40	20.88	12.22	11.44	1.15	0.63	41.10	25.95	4.04
550	15.38	20.87	12.12	11.37	1.15	0.63	41.94	26.06	4.03
600	15.36	20.90	12.11	11.33	1.15	0.63	41.82	25.85	4.03
650	15.33	20.91	12.01	11.28	1.16	0.63	42.24	25.85	4.02
700	15.31	20.91	11.97	11.22	1.16	0.63	42.61	26.02	4.03
750	15.30	20.92	11.87	11.14	1.16	0.64	42.80	26.05	4.00
800	15.27	20.95	11.76	11.05	1.16	0.64	43.31	26.04	3.94
850	15.26	20.96	11.71	10.97	1.16	0.64	44.23	26.13	3.97
1000	15.19	21.06	11.38	10.65	1.17	0.64	46.07	26.05	4.09
1050	15.17	21.10	11.24	10.51	1.17	0.64	46.35	26.00	4.11
1100	15.15	21.14	11.15	10.39	1.17	0.64	47.37	26.03	4.06
1150	15.13	21.19	11.05	10.27	1.17	0.65	45.95	26.17	4.10
1200	15.10	21.24	10.95	10.13	1.18	0.65	46.58	25.94	4.11
1250	15.08	21.31	10.83	10.01	1.18	0.65	45.71	26.03	4.10
1300	15.05	21.36	10.70	9.83	1.18	0.65	44.62	25.73	4.15
1350	15.01	21.42	10.64	9.70	1.19	0.65	44.92	25.84	4.17
1400	15.02	21.46	10.47	9.64	1.19	0.65	44.68	25.64	4.15
1450	15.01	21.50	10.34	9.50	1.19	0.65	44.13	25.66	4.14
1500	14.99	21.56	10.24	9.37	1.19	0.65	43.45	25.69	4.14
1550	14.95	21.66	10.11	9.24	1.20	0.66	41.94	25.60	4.21
1600	14.93	21.76	10.06	9.12	1.20	0.66	41.71	25.51	4.20
1650	14.90	21.83	9.89	8.95	1.21	0.66	42.36	25.52	4.22
1700	14.86	21.92	9.80	8.81	1.21	0.66	41.21	25.23	4.23
1750	14.83	22.04	9.72	8.71	1.22	0.67	40.45	25.30	4.31
1800	14.77	22.17	9.58	8.58	1.23	0.67	40.30	25.17	4.26
1850	14.72	22.27	9.53	8.44	1.24	0.67	40.19	25.06	4.44
1900	14.65	22.42	9.36	8.29	1.25	0.68	40.27	25.01	4.34
1950	14.57	22.58	9.28	8.15	1.27	0.68	39.87	24.96	4.40
2000	14.45	22.73	9.22	8.03	1.29	0.69	39.83	24.82	4.45

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 = 9.5V, Id = 202.27 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)
50	15.19	20.38	11.36	14.12	1.14	0.67	44.16	26.43	4.37
100	15.41	20.62	12.60	12.52	1.14	0.63	44.18	26.99	4.30
150	15.43	20.72	12.59	11.98	1.14	0.63	44.34	26.91	4.22
200	15.43	20.79	12.55	11.78	1.15	0.63	43.98	27.11	4.15
250	15.43	20.78	12.53	11.66	1.15	0.63	43.44	26.97	4.25
300	15.41	20.81	12.49	11.59	1.15	0.63	42.89	27.11	4.30
350	15.40	20.81	12.46	11.53	1.15	0.63	42.50	27.17	4.33
400	15.37	20.82	12.39	11.47	1.15	0.63	42.34	26.93	4.33
450	15.36	20.83	12.34	11.42	1.15	0.63	42.12	27.01	4.33
500	15.34	20.88	12.29	11.35	1.16	0.63	42.17	26.96	4.39
550	15.31	20.84	12.19	11.26	1.15	0.63	41.90	27.05	4.36
600	15.30	20.88	12.18	11.21	1.16	0.63	42.00	26.85	4.33
650	15.27	20.90	12.07	11.17	1.16	0.63	41.93	26.87	4.35
700	15.25	20.91	12.04	11.12	1.16	0.64	42.07	27.03	4.33
750	15.24	20.94	11.94	11.01	1.16	0.64	42.08	27.06	4.28
800	15.21	20.94	11.83	10.93	1.16	0.64	42.01	27.02	4.26
850	15.20	20.96	11.78	10.86	1.16	0.64	42.24	27.11	4.29
1000	15.13	21.05	11.43	10.53	1.17	0.64	42.94	27.07	4.37
1050	15.11	21.10	11.30	10.39	1.17	0.64	42.74	27.00	4.37
1100	15.09	21.10	11.23	10.28	1.17	0.64	42.94	27.04	4.38
1150	15.06	21.14	11.10	10.15	1.17	0.64	42.71	27.17	4.44
1200	15.04	21.23	11.00	10.01	1.18	0.65	43.03	26.96	4.42
1250	15.02	21.25	10.88	9.89	1.18	0.64	43.27	27.00	4.43
1300	14.99	21.32	10.75	9.72	1.18	0.65	43.24	26.69	4.47
1350	14.95	21.41	10.68	9.60	1.19	0.65	43.95	26.78	4.47
1400	14.96	21.45	10.52	9.53	1.19	0.65	44.00	26.57	4.46
1450	14.95	21.49	10.38	9.39	1.19	0.65	43.42	26.58	4.48
1500	14.93	21.54	10.27	9.26	1.19	0.65	43.18	26.61	4.46
1550	14.90	21.63	10.14	9.13	1.20	0.65	42.48	26.49	4.51
1600	14.87	21.68	10.08	8.99	1.20	0.65	43.05	26.41	4.50
1650	14.84	21.78	9.91	8.82	1.20	0.65	43.16	26.41	4.56
1700	14.81	21.88	9.81	8.69	1.21	0.66	41.62	26.11	4.51
1750	14.77	21.97	9.73	8.58	1.22	0.66	40.99	26.18	4.63
1800	14.71	22.12	9.59	8.45	1.23	0.67	41.35	26.04	4.61
1850	14.67	22.24	9.54	8.31	1.24	0.67	41.32	25.94	4.77
1900	14.60	22.39	9.36	8.17	1.25	0.67	40.98	25.90	4.68
1950	14.52	22.54	9.28	8.01	1.26	0.68	41.01	25.84	4.74
2000	14.41	22.70	9.23	7.90	1.29	0.69	40.53	25.66	4.77

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

