

## 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 = 3.9V, Id = 33.77 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)
200	4.46	45.30	1.75	2.32	7.36	0.69	9.45	1.65	5.54
300	14.54	41.54	2.22	5.87	2.97	1.22	19.87	9.06	4.13
400	19.14	41.31	3.56	9.76	3.04	1.32	23.26	12.24	3.51
500	21.26	42.74	5.44	14.49	4.03	1.25	24.20	13.17	3.58
600	22.27	43.43	7.49	20.63	4.66	1.17	24.79	13.35	3.08
700	22.75	43.95	9.49	23.64	5.11	1.10	24.60	13.19	3.06
800	23.06	44.49	11.44	19.41	5.48	1.05	24.16	12.88	3.08
900	23.06	43.34	13.40	18.26	4.92	1.02	23.46	12.40	2.98
1000	23.09	42.78	15.08	16.61	4.65	0.99	23.30	12.20	2.99
1100	23.05	41.91	16.76	15.81	4.26	0.98	23.15	12.08	2.99
1200	22.97	41.28	18.32	15.29	4.02	0.96	23.19	11.96	2.97
1300	22.84	40.52	19.70	14.86	3.75	0.96	22.56	11.70	2.91
1400	22.69	40.10	20.91	14.48	3.63	0.95	22.26	11.43	2.91
1500	22.49	39.77	22.12	14.18	3.58	0.94	22.27	11.40	2.93
1600	22.32	39.10	22.07	14.32	3.39	0.94	22.02	11.30	2.99
1700	22.06	38.60	22.75	14.17	3.30	0.94	21.56	10.93	2.96
1800	21.81	38.51	22.60	13.99	3.35	0.94	21.42	10.73	3.03
1900	21.53	37.80	22.12	13.96	3.20	0.94	20.93	10.41	3.01
2000	21.23	37.56	22.15	13.68	3.21	0.93	20.94	10.42	3.04
2100	20.91	37.26	21.05	13.84	3.22	0.94	20.94	10.37	2.97
2200	20.55	37.17	20.09	14.17	3.32	0.94	20.69	10.18	3.01
2300	20.19	36.45	19.57	14.06	3.19	0.94	20.43	9.94	3.02
2400	19.81	36.40	18.67	14.18	3.30	0.95	20.37	9.81	2.93
2500	19.43	36.46	17.30	14.41	3.46	0.95	19.85	9.43	3.05
2600	19.07	35.88	16.78	14.27	3.36	0.95	19.99	9.46	3.10
2700	18.59	35.68	15.77	14.63	3.46	0.96	19.95	9.35	3.15
2800	18.17	35.62	14.89	14.56	3.58	0.97	19.68	9.06	3.14
2900	17.72	35.96	14.01	15.17	3.90	0.98	19.45	9.03	3.23
3000	17.30	35.26	13.30	14.83	3.75	0.99	19.32	8.71	3.21
3100	16.92	34.63	12.76	14.69	3.62	0.99	19.37	8.83	3.24
3200	16.45	34.78	11.96	15.19	3.85	1.01	18.61	8.60	3.35
3300	16.05	34.47	11.45	15.07	3.86	1.01	18.68	8.50	3.24
3400	15.50	34.61	10.70	15.94	4.13	1.04	18.59	8.33	3.43
3500	15.12	34.21	10.33	15.66	4.08	1.04	18.25	8.13	3.45
3600	14.79	33.87	9.98	15.38	4.03	1.04	18.29	7.87	3.52
3700	14.31	33.67	9.52	15.92	4.12	1.06	17.99	7.86	3.55
3800	13.86	33.94	8.96	16.08	4.40	1.08	18.01	7.58	3.67
3900	13.37	33.66	8.65	16.15	4.45	1.09	17.52	7.41	3.70
4000	12.92	34.20	8.02	16.10	4.85	1.11	17.50	7.25	3.83

## 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 = 2.8V, Id = 32.63 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)
200	4.21	45.11	1.79	2.39	7.68	0.71	9.05	1.18	5.63
300	14.09	42.07	2.28	5.93	3.45	1.21	18.47	8.14	4.18
400	18.54	41.78	3.66	9.71	3.52	1.30	21.58	10.79	3.56
500	20.54	42.91	5.61	14.33	4.53	1.24	22.53	11.71	3.65
600	21.47	44.30	7.72	20.87	5.71	1.16	22.89	11.89	3.15
700	21.88	44.13	9.78	34.56	5.83	1.10	22.77	11.79	3.15
800	22.12	43.78	11.75	26.61	5.69	1.06	22.43	11.60	3.12
900	22.09	42.28	13.70	23.33	4.94	1.03	22.05	11.38	3.04
1000	22.07	41.84	15.38	20.64	4.75	1.01	21.78	11.17	3.02
1100	21.98	40.67	17.04	19.31	4.24	0.99	21.74	11.08	3.03
1200	21.85	40.13	18.57	18.30	4.06	0.98	21.76	10.95	3.04
1300	21.69	39.41	19.87	17.72	3.82	0.97	21.22	10.76	2.97
1400	21.51	38.61	20.96	17.17	3.57	0.97	20.96	10.45	2.98
1500	21.28	38.45	22.05	16.81	3.59	0.96	20.98	10.43	3.00
1600	21.07	37.70	22.04	16.80	3.38	0.96	20.69	10.33	3.03
1700	20.79	37.35	22.56	16.56	3.35	0.96	20.28	10.01	3.01
1800	20.52	36.83	22.42	16.27	3.26	0.96	20.15	9.80	3.12
1900	20.23	36.49	21.99	16.19	3.24	0.95	19.77	9.54	3.11
2000	19.92	36.02	21.95	15.93	3.18	0.95	19.78	9.48	3.09
2100	19.60	35.72	20.92	15.90	3.18	0.95	19.68	9.51	3.04
2200	19.25	35.67	20.02	16.23	3.29	0.96	19.45	9.22	3.08
2300	18.89	35.13	19.47	16.08	3.22	0.96	19.25	8.95	3.11
2400	18.53	35.03	18.63	16.26	3.31	0.96	19.12	8.85	3.05
2500	18.15	35.01	17.38	16.45	3.43	0.97	18.74	8.57	3.16
2600	17.81	34.18	16.83	16.31	3.24	0.97	18.79	8.46	3.19
2700	17.35	34.27	15.84	16.88	3.44	0.98	18.72	8.37	3.25
2800	16.95	34.05	14.97	16.75	3.49	0.98	18.48	8.10	3.26
2900	16.52	34.32	14.11	17.24	3.75	1.00	18.23	8.00	3.36
3000	16.12	33.81	13.40	17.26	3.68	1.00	18.09	7.78	3.31
3100	15.77	33.07	12.83	17.16	3.51	1.00	18.11	7.76	3.35
3200	15.32	33.21	12.06	17.73	3.71	1.02	17.38	7.61	3.47
3300	14.93	32.91	11.54	17.63	3.72	1.03	17.34	7.55	3.42
3400	14.41	33.11	10.79	18.46	3.98	1.05	17.27	7.35	3.54
3500	14.05	32.66	10.42	18.49	3.91	1.05	17.00	7.19	3.55
3600	13.73	32.33	10.06	18.34	3.88	1.06	16.94	6.82	3.67
3700	13.26	32.25	9.59	19.00	4.01	1.07	16.68	6.91	3.74
3800	12.82	32.47	9.03	19.26	4.24	1.09	16.65	6.74	3.82
3900	12.35	32.38	8.68	19.21	4.38	1.10	16.20	6.42	3.89
4000	11.92	32.88	8.06	19.04	4.74	1.13	16.16	6.28	4.02

## 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 = 5V, Id = 34.20 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)
200	4.51	45.20	1.74	2.27	7.12	0.68	9.55	1.77	5.52
300	14.69	41.33	2.21	5.83	2.82	1.21	20.40	9.39	4.11
400	19.37	41.08	3.53	9.77	2.85	1.32	23.83	12.65	3.49
500	21.56	42.07	5.38	14.33	3.57	1.25	24.82	13.55	3.53
600	22.63	43.27	7.41	18.91	4.36	1.17	25.49	13.76	3.08
700	23.15	44.12	9.40	19.26	4.93	1.09	25.35	13.59	3.05
800	23.50	45.18	11.35	16.27	5.56	1.04	24.77	13.29	3.06
900	23.54	43.91	13.38	15.52	4.92	1.00	24.12	12.73	3.20
1000	23.59	43.54	15.09	14.28	4.71	0.98	23.91	12.55	2.96
1100	23.58	43.07	16.86	13.68	4.50	0.96	23.78	12.44	2.96
1200	23.53	42.34	18.57	13.29	4.18	0.95	23.79	12.35	2.94
1300	23.43	41.44	20.08	12.96	3.82	0.94	23.11	12.00	2.90
1400	23.31	41.01	21.43	12.65	3.69	0.93	22.84	11.76	2.89
1500	23.13	40.70	22.88	12.43	3.63	0.93	22.79	11.68	2.92
1600	22.98	40.21	22.86	12.58	3.50	0.93	22.59	11.65	2.94
1700	22.73	39.76	23.60	12.50	3.42	0.92	22.09	11.29	2.90
1800	22.48	39.25	23.56	12.39	3.32	0.92	21.92	11.13	3.01
1900	22.21	39.10	23.00	12.39	3.37	0.92	21.38	10.75	3.01
2000	21.91	38.67	23.06	12.14	3.31	0.92	21.45	10.74	3.01
2100	21.59	38.52	21.77	12.33	3.37	0.92	21.37	10.74	2.94
2200	21.22	38.54	20.68	12.67	3.53	0.93	21.19	10.55	2.96
2300	20.85	37.76	20.08	12.59	3.37	0.93	20.90	10.24	2.98
2400	20.46	37.64	19.14	12.71	3.47	0.93	20.85	10.17	2.96
2500	20.05	37.81	17.58	12.93	3.70	0.94	20.27	9.85	3.04
2600	19.68	37.23	17.01	12.85	3.60	0.94	20.45	9.81	3.05
2700	19.18	36.93	15.89	13.08	3.68	0.95	20.44	9.73	3.11
2800	18.74	36.71	14.98	13.05	3.74	0.95	20.16	9.50	3.11
2900	18.27	37.34	14.02	13.69	4.23	0.97	19.97	9.38	3.19
3000	17.82	36.67	13.31	13.26	4.08	0.97	19.81	9.14	3.17
3100	17.43	35.86	12.75	13.09	3.87	0.97	19.89	9.24	3.20
3200	16.93	36.12	11.90	13.52	4.18	0.99	19.16	8.90	3.27
3300	16.51	35.86	11.38	13.43	4.21	1.00	19.29	8.93	3.21
3400	15.93	35.94	10.59	14.22	4.49	1.03	19.16	8.66	3.38
3500	15.54	35.37	10.22	13.83	4.36	1.03	18.80	8.47	3.37
3600	15.21	34.94	9.85	13.54	4.27	1.03	18.89	8.29	3.47
3700	14.70	34.90	9.38	14.00	4.45	1.05	18.59	8.24	3.51
3800	14.24	35.08	8.83	14.10	4.70	1.07	18.63	8.09	3.60
3900	13.74	34.50	8.51	14.20	4.61	1.08	18.12	7.82	3.64
4000	13.27	35.23	7.88	14.21	5.13	1.10	18.11	7.70	3.78