

## 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 = 68.06 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)
10.0	24.42	29.01	11.09	6.34	0.90	0.48	---	18.33	2.95
30.0	22.57	25.25	15.43	11.29	0.94	0.47	37.02	19.32	3.58
50.0	21.94	24.74	17.62	14.64	0.99	0.49	33.49	18.98	3.63
100.0	21.53	24.49	19.62	18.89	1.03	0.51	34.55	19.02	3.65
200.0	21.39	24.44	20.24	21.47	1.04	0.52	34.60	18.70	3.55
300.0	21.34	24.41	20.26	22.17	1.05	0.52	35.01	18.71	3.78
400.0	21.30	24.41	20.20	22.48	1.05	0.52	34.84	18.91	3.82
500.0	21.26	24.36	20.00	22.69	1.05	0.52	34.47	18.88	3.80
600.0	21.21	24.35	19.86	22.74	1.06	0.52	35.35	18.98	3.80
700.0	21.16	24.28	19.73	22.58	1.06	0.51	34.90	19.12	3.75
800.0	21.10	24.28	19.66	22.43	1.06	0.52	35.01	19.12	3.76
1000.0	20.96	24.22	19.65	21.67	1.06	0.52	34.07	19.12	3.76
1100.0	20.89	24.10	19.76	21.12	1.06	0.52	34.32	19.21	3.73
1200.0	20.80	24.08	19.92	20.44	1.07	0.52	35.07	19.37	3.74
1300.0	20.71	24.01	20.17	19.90	1.07	0.52	34.44	19.30	3.71
1400.0	20.61	23.97	20.48	19.27	1.07	0.52	33.70	19.32	3.76
1500.0	20.51	23.94	20.97	18.73	1.07	0.53	33.93	19.30	3.66
1600.0	20.35	23.93	21.43	18.68	1.08	0.54	33.71	19.38	3.70
1700.0	20.27	23.83	22.22	17.95	1.08	0.54	33.25	19.29	3.61
1800.0	20.16	23.75	23.08	17.52	1.08	0.54	33.16	19.23	3.75
1900.0	20.02	23.74	23.87	17.34	1.08	0.55	32.73	18.99	3.67
2000.0	19.88	23.70	25.04	17.16	1.09	0.56	32.56	18.79	3.68
2100.0	19.75	23.71	25.78	16.79	1.09	0.57	32.26	18.67	3.64
2200.0	19.63	23.65	27.50	16.66	1.10	0.58	32.12	18.55	3.62
2300.0	19.50	23.63	29.30	16.60	1.10	0.59	31.93	18.37	3.71
2400.0	19.35	23.63	30.73	16.51	1.11	0.60	31.37	18.25	3.70
2500.0	19.20	23.62	32.35	16.64	1.12	0.61	30.97	17.86	3.80
2600.0	19.07	23.57	32.21	16.55	1.12	0.62	30.96	17.69	3.73
2700.0	18.94	23.64	31.53	16.69	1.13	0.64	30.74	17.64	3.72
2800.0	18.80	23.64	29.51	16.48	1.14	0.65	30.49	17.50	3.85
2900.0	18.65	23.69	29.20	16.86	1.15	0.67	30.09	17.33	3.77
3000.0	18.54	23.70	27.09	16.80	1.16	0.68	29.90	17.17	3.71
3100.0	18.38	23.75	26.36	16.83	1.17	0.70	29.85	17.04	3.77
3200.0	18.23	23.82	25.73	17.03	1.19	0.71	29.67	16.81	3.77
3300.0	18.13	23.84	24.14	17.07	1.19	0.72	29.44	16.97	3.78
3400.0	18.05	23.86	22.84	17.19	1.20	0.73	29.27	16.67	3.70
3500.0	17.94	23.87	21.90	17.19	1.21	0.74	28.93	16.40	3.88
3600.0	17.79	23.94	21.70	17.14	1.23	0.75	29.12	16.31	3.80
3800.0	17.61	24.12	20.28	17.36	1.25	0.78	28.87	16.01	3.83
4000.0	17.30	24.21	19.98	17.24	1.29	0.80	28.94	15.76	3.95
4200.0	17.17	24.34	18.43	17.08	1.31	0.82	28.32	15.19	3.95
4400.0	16.96	24.71	18.11	17.44	1.37	0.84	28.05	14.60	3.98
4600.0	16.84	25.21	17.68	17.76	1.44	0.87	27.88	14.32	4.05
4800.0	16.68	25.27	16.49	17.10	1.46	0.88	27.60	13.90	4.13
5000.0	16.44	25.34	15.92	16.72	1.49	0.89	26.88	13.35	4.22
5200.0	16.18	25.25	15.20	15.68	1.49	0.90	26.85	13.30	4.29
5400.0	16.27	26.08	15.69	16.94	1.61	0.92	25.98	12.75	4.39
5600.0	16.25	26.48	13.54	15.66	1.63	0.94	26.22	12.62	4.32
5800.0	16.14	26.48	13.42	15.49	1.64	0.95	25.51	12.23	4.47
6000.0	16.26	27.02	13.37	15.65	1.71	0.95	24.98	11.79	4.51

## 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 = 4.5V, Id =48.94 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)
10.0	23.94	26.87	10.33	5.72	0.87	0.23	---	15.63	2.79
30.0	22.17	24.91	15.43	10.66	0.94	0.46	29.83	15.90	3.38
50.0	21.56	24.38	18.65	13.66	0.99	0.48	28.82	15.34	3.47
100.0	21.17	24.20	22.31	17.22	1.03	0.50	29.31	15.46	3.49
200.0	21.03	24.12	24.03	18.98	1.05	0.51	29.40	15.06	3.38
300.0	20.99	24.03	24.13	19.44	1.05	0.50	29.64	15.08	3.57
400.0	20.95	24.10	23.97	19.73	1.05	0.51	29.66	15.38	3.67
500.0	20.92	24.02	23.54	19.93	1.05	0.51	29.52	15.34	3.62
600.0	20.88	24.00	23.26	20.11	1.05	0.51	29.90	15.48	3.64
700.0	20.83	24.00	23.00	20.15	1.06	0.51	30.37	15.71	3.61
800.0	20.78	23.97	22.80	20.30	1.06	0.51	30.39	15.74	3.55
1000.0	20.66	23.84	22.71	20.06	1.06	0.51	29.60	15.75	3.62
1100.0	20.59	23.78	22.82	19.84	1.06	0.51	29.82	15.89	3.56
1200.0	20.51	23.75	23.03	19.45	1.06	0.51	30.74	16.28	3.55
1300.0	20.43	23.72	23.35	19.12	1.07	0.51	30.47	16.22	3.54
1400.0	20.33	23.62	23.80	18.64	1.07	0.51	29.85	16.30	3.59
1500.0	20.24	23.59	24.47	18.22	1.07	0.52	30.07	16.39	3.51
1600.0	20.08	23.60	25.07	18.26	1.08	0.53	30.41	16.76	3.53
1700.0	20.01	23.54	26.25	17.60	1.08	0.53	30.39	16.88	3.46
1800.0	19.90	23.46	27.48	17.19	1.08	0.53	30.23	16.93	3.58
1900.0	19.76	23.45	28.66	17.01	1.08	0.55	29.86	16.68	3.49
2000.0	19.63	23.41	30.40	16.84	1.08	0.56	29.67	16.57	3.53
2100.0	19.50	23.38	31.05	16.50	1.09	0.56	29.78	16.58	3.45
2200.0	19.38	23.37	33.08	16.35	1.09	0.58	29.82	16.59	3.46
2300.0	19.24	23.34	33.29	16.23	1.09	0.59	29.70	16.55	3.52
2400.0	19.10	23.35	32.60	16.15	1.10	0.60	29.41	16.54	3.54
2500.0	18.95	23.37	31.19	16.21	1.11	0.62	28.93	16.21	3.62
2600.0	18.82	23.40	29.15	16.10	1.12	0.63	29.13	16.17	3.56
2700.0	18.69	23.38	27.52	16.17	1.12	0.64	29.12	16.16	3.55
2800.0	18.55	23.40	26.17	15.98	1.13	0.66	28.80	16.08	3.65
2900.0	18.40	23.49	25.42	16.26	1.15	0.68	28.53	15.96	3.59
3000.0	18.28	23.42	24.01	16.12	1.15	0.68	28.43	15.83	3.48
3100.0	18.12	23.46	23.52	16.13	1.16	0.70	28.29	15.72	3.57
3200.0	17.97	23.59	23.02	16.32	1.18	0.72	28.32	15.56	3.58
3300.0	17.88	23.57	21.85	16.25	1.18	0.72	28.09	15.72	3.57
3400.0	17.79	23.65	20.87	16.28	1.19	0.74	27.86	15.44	3.54
3500.0	17.67	23.67	20.18	16.19	1.20	0.75	27.55	15.21	3.65
3600.0	17.53	23.74	20.06	16.15	1.22	0.76	27.68	15.15	3.59
3800.0	17.34	23.89	18.94	16.22	1.24	0.78	27.55	14.89	3.65
4000.0	17.03	24.01	18.73	16.11	1.28	0.80	27.41	14.73	3.69
4200.0	16.90	24.09	17.43	15.84	1.29	0.82	27.05	14.18	3.73
4400.0	16.68	24.49	17.19	16.10	1.36	0.85	26.69	13.67	3.80
4600.0	16.55	24.99	16.86	16.28	1.43	0.87	26.55	13.40	3.78
4800.0	16.39	25.06	15.86	15.68	1.44	0.88	26.26	12.99	3.90
5000.0	16.14	25.16	15.36	15.34	1.48	0.89	25.68	12.49	3.92
5200.0	15.88	25.05	14.70	14.47	1.48	0.90	25.67	12.44	4.01
5400.0	15.96	25.86	15.18	15.43	1.60	0.92	24.76	11.91	4.08
5600.0	15.93	26.23	13.21	14.31	1.61	0.94	25.03	11.76	4.06
5800.0	15.80	26.27	13.13	14.17	1.63	0.94	24.35	11.38	4.19
6000.0	15.91	26.76	13.12	14.26	1.70	0.95	23.84	10.95	4.22

## 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 = 5.5V, Id = 88.54 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)
10.0	24.65	28.04	11.96	6.61	0.87	0.39	---	20.17	3.11
30.0	22.75	25.40	15.32	11.59	0.94	0.48	38.98	21.30	3.77
50.0	22.11	24.74	17.08	15.08	0.99	0.48	38.13	21.24	3.81
100.0	21.69	24.67	18.47	19.73	1.03	0.51	38.69	21.21	3.85
200.0	21.55	24.64	18.87	22.88	1.05	0.53	38.99	21.09	3.76
300.0	21.50	24.64	18.92	23.76	1.05	0.53	39.86	21.12	4.01
400.0	21.46	24.61	18.84	24.14	1.05	0.53	38.54	21.17	4.05
500.0	21.41	24.55	18.70	24.33	1.05	0.53	37.29	21.20	3.99
600.0	21.36	24.51	18.60	24.36	1.06	0.52	37.62	21.20	3.99
700.0	21.31	24.49	18.49	23.99	1.06	0.53	37.76	21.27	3.97
800.0	21.25	24.45	18.48	23.73	1.06	0.53	37.29	21.25	3.95
1000.0	21.10	24.32	18.53	22.54	1.06	0.52	35.82	21.29	3.98
1100.0	21.02	24.27	18.63	21.87	1.06	0.52	35.36	21.29	3.91
1200.0	20.94	24.23	18.80	21.06	1.07	0.52	36.30	21.27	3.95
1300.0	20.84	24.16	19.05	20.42	1.07	0.52	34.86	21.19	3.91
1400.0	20.74	24.10	19.36	19.75	1.07	0.52	34.60	21.11	3.96
1500.0	20.64	24.04	19.79	19.15	1.07	0.53	34.12	21.00	3.88
1600.0	20.48	24.03	20.22	19.06	1.08	0.54	33.78	20.91	3.92
1700.0	20.40	23.94	20.97	18.32	1.08	0.54	33.86	20.74	3.80
1800.0	20.29	23.91	21.72	17.90	1.08	0.54	33.11	20.51	3.95
1900.0	20.15	23.82	22.50	17.69	1.08	0.55	32.84	20.23	3.85
2000.0	20.01	23.82	23.50	17.55	1.09	0.56	32.48	19.95	3.87
2100.0	19.88	23.82	24.13	17.19	1.09	0.57	32.04	19.77	3.86
2200.0	19.76	23.75	25.76	17.10	1.10	0.57	32.11	19.57	3.85
2300.0	19.63	23.68	27.38	17.07	1.10	0.58	31.70	19.33	3.92
2400.0	19.48	23.76	28.86	17.02	1.11	0.60	31.62	19.15	3.89
2500.0	19.34	23.75	30.82	17.19	1.12	0.62	30.83	18.72	3.98
2600.0	19.20	23.69	31.60	17.16	1.12	0.62	30.91	18.52	3.95
2700.0	19.08	23.71	32.27	17.35	1.13	0.64	30.65	18.44	3.94
2800.0	18.93	23.72	30.28	17.17	1.14	0.65	30.44	18.28	4.04
2900.0	18.78	23.77	30.39	17.67	1.15	0.67	30.22	18.09	3.99
3000.0	18.67	23.76	28.16	17.63	1.16	0.68	29.99	17.93	3.94
3100.0	18.51	23.82	27.32	17.71	1.17	0.69	29.89	17.74	3.98
3200.0	18.36	23.89	26.64	18.00	1.19	0.71	29.89	17.50	4.01
3300.0	18.27	23.93	24.81	18.09	1.20	0.72	29.67	17.66	4.00
3400.0	18.19	23.96	23.39	18.35	1.20	0.73	29.33	17.33	3.94
3500.0	18.08	23.99	22.35	18.40	1.21	0.74	29.08	17.02	4.12
3600.0	17.93	24.04	22.11	18.42	1.23	0.75	29.22	16.96	4.06
3800.0	17.75	24.21	20.59	18.83	1.26	0.78	28.88	16.59	4.12
4000.0	17.44	24.34	20.18	18.76	1.30	0.80	28.77	16.29	4.19
4200.0	17.31	24.48	18.58	18.67	1.32	0.82	28.23	15.71	4.22
4400.0	17.10	24.84	18.20	19.16	1.38	0.84	27.86	15.12	4.32
4600.0	16.99	25.24	17.70	19.70	1.44	0.87	27.44	14.82	4.31
4800.0	16.83	25.42	16.50	18.96	1.47	0.88	27.12	14.37	4.46
5000.0	16.59	25.50	15.90	18.52	1.50	0.90	26.41	13.82	4.55
5200.0	16.33	25.41	15.13	17.28	1.51	0.90	26.40	13.80	4.62
5400.0	16.43	26.21	15.61	18.94	1.62	0.92	25.58	13.24	4.74
5600.0	16.42	26.66	13.44	17.31	1.65	0.95	25.59	13.09	4.67
5800.0	16.30	26.64	13.29	17.20	1.66	0.95	25.00	12.74	4.82
6000.0	16.43	27.27	13.26	17.36	1.74	0.96	24.45	12.26	4.91

## 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 = 63.65 mA @ Temperature = -45degC

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)
10.0	24.55	27.51	10.81	6.11	0.87	0.28	---	18.00	2.29
30.0	22.70	25.38	15.39	11.43	0.94	0.47	35.30	18.85	2.90
50.0	22.08	24.86	17.33	14.67	0.99	0.49	33.68	18.28	2.94
100.0	21.69	24.66	19.70	18.60	1.03	0.51	33.96	18.40	3.00
200.0	21.56	24.55	20.64	20.76	1.04	0.51	34.28	17.97	2.88
300.0	21.52	24.54	19.53	22.57	1.04	0.51	34.08	18.07	3.11
400.0	21.48	24.57	19.10	23.29	1.05	0.52	34.53	18.36	3.13
500.0	21.44	24.52	18.97	23.00	1.05	0.52	34.27	18.33	3.09
600.0	21.40	24.49	18.86	22.67	1.05	0.52	34.34	18.45	3.13
700.0	21.36	24.45	18.87	22.01	1.05	0.51	34.65	18.62	3.10
800.0	21.30	24.41	18.98	21.61	1.05	0.51	35.13	18.62	3.06
1000.0	21.18	24.29	19.02	20.73	1.06	0.51	33.91	18.60	3.07
1100.0	21.10	24.22	18.71	19.93	1.06	0.50	34.30	18.71	3.04
1200.0	21.02	24.24	18.60	19.22	1.06	0.51	35.01	19.01	3.02
1300.0	20.93	24.12	18.53	18.57	1.06	0.50	34.34	18.97	3.04
1400.0	20.83	24.07	18.50	17.76	1.06	0.50	34.21	19.02	3.07
1500.0	20.74	24.04	18.86	17.24	1.07	0.51	34.04	19.04	3.00
1600.0	20.62	23.99	19.43	16.99	1.07	0.51	34.59	19.25	3.02
1700.0	20.52	23.96	19.83	16.52	1.07	0.51	33.95	19.22	2.93
1800.0	20.42	23.86	20.10	16.06	1.07	0.51	33.74	19.26	3.04
1900.0	20.27	23.87	20.65	15.94	1.08	0.53	33.46	19.06	3.00
2000.0	20.14	23.81	21.14	15.69	1.08	0.53	33.22	18.90	3.01
2100.0	20.02	23.77	21.64	15.35	1.08	0.54	32.95	18.90	2.97
2200.0	19.88	23.81	21.90	15.11	1.09	0.55	32.95	18.86	2.96
2300.0	19.77	23.70	22.63	14.90	1.09	0.55	32.75	18.73	3.02
2400.0	19.64	23.71	23.53	14.84	1.09	0.57	32.41	18.64	3.03
2500.0	19.50	23.74	24.21	14.83	1.10	0.58	31.76	18.35	3.07
2600.0	19.39	23.64	25.32	14.70	1.10	0.58	32.04	18.19	3.03
2700.0	19.27	23.66	26.66	14.88	1.11	0.60	31.78	18.19	3.04
2800.0	19.10	23.73	28.20	15.11	1.12	0.62	31.41	18.01	3.10
2900.0	18.98	23.74	28.56	15.12	1.13	0.63	30.97	17.86	3.05
3000.0	18.90	23.70	28.71	15.31	1.13	0.64	30.73	17.75	2.97
3100.0	18.79	23.72	28.63	15.39	1.14	0.65	30.77	17.61	2.99
3200.0	18.65	23.77	28.68	15.46	1.15	0.67	30.71	17.46	3.02
3300.0	18.53	23.76	27.82	15.28	1.16	0.67	30.32	17.56	2.98
3400.0	18.38	23.90	27.46	15.42	1.18	0.69	30.03	17.26	2.95
3500.0	18.30	23.86	25.54	15.20	1.18	0.70	29.72	17.03	3.10
3600.0	18.23	23.88	24.75	15.48	1.18	0.71	29.80	17.04	3.00
3800.0	18.04	23.98	23.62	15.40	1.20	0.73	29.64	16.88	3.05
4000.0	17.77	24.09	23.05	15.39	1.24	0.75	29.55	16.71	3.10
4200.0	17.65	24.19	21.63	14.99	1.25	0.76	28.96	16.23	3.11
4400.0	17.48	24.43	20.74	14.92	1.28	0.78	28.91	15.77	3.15
4600.0	17.10	24.74	23.47	15.35	1.37	0.81	29.00	15.52	3.19
4800.0	17.12	24.66	19.71	14.30	1.33	0.81	28.84	15.13	3.26
5000.0	17.16	25.09	18.60	14.42	1.37	0.83	28.44	14.59	3.28
5200.0	16.75	24.87	18.69	13.80	1.39	0.83	28.31	14.44	3.34
5400.0	17.08	26.01	18.62	14.85	1.49	0.87	27.66	13.88	3.39
5600.0	16.93	25.86	19.72	14.83	1.50	0.86	27.76	13.78	3.34
5800.0	16.92	25.96	17.26	14.16	1.49	0.87	27.32	13.44	3.45
6000.0	17.12	26.31	16.66	14.41	1.50	0.88	26.88	12.97	3.51

## 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 = 4.5V, Id = 46.01 mA @ Temperature = -45degC

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)
10.0	24.18	27.45	10.94	6.04	0.87	0.31	---	15.12	2.15
30.0	22.35	24.97	15.46	10.87	0.94	0.45	29.64	15.06	2.79
50.0	21.74	24.45	18.37	13.84	0.99	0.47	28.32	14.47	2.80
100.0	21.36	24.34	22.13	17.09	1.03	0.50	28.65	14.58	2.87
200.0	21.24	24.31	24.27	18.59	1.04	0.51	28.59	14.14	2.72
300.0	21.20	24.23	22.68	20.01	1.04	0.50	28.90	14.26	2.92
400.0	21.17	24.23	22.01	20.68	1.05	0.51	29.00	14.57	3.00
500.0	21.14	24.17	21.80	20.64	1.05	0.50	28.90	14.54	2.99
600.0	21.10	24.15	21.61	20.57	1.05	0.50	29.31	14.69	2.97
700.0	21.06	24.15	21.58	20.19	1.05	0.50	29.68	14.93	2.94
800.0	21.01	24.10	21.65	19.97	1.05	0.50	29.83	14.92	2.94
1000.0	20.90	24.00	21.59	19.57	1.06	0.50	28.96	14.95	2.95
1100.0	20.84	23.94	21.17	19.11	1.06	0.50	29.35	15.11	2.93
1200.0	20.77	23.89	21.01	18.63	1.06	0.50	30.28	15.55	2.90
1300.0	20.68	23.84	20.86	18.17	1.06	0.50	29.89	15.53	2.90
1400.0	20.58	23.79	20.79	17.49	1.06	0.50	29.50	15.62	2.95
1500.0	20.50	23.76	21.18	17.02	1.06	0.50	29.82	15.73	2.86
1600.0	20.38	23.69	21.84	16.79	1.06	0.50	30.07	16.18	2.89
1700.0	20.29	23.66	22.25	16.33	1.06	0.51	30.18	16.27	2.78
1800.0	20.19	23.64	22.49	15.90	1.07	0.51	30.10	16.55	2.92
1900.0	20.05	23.60	23.12	15.80	1.07	0.52	29.86	16.31	2.84
2000.0	19.92	23.49	23.54	15.50	1.07	0.52	29.75	16.23	2.85
2100.0	19.80	23.52	24.01	15.15	1.08	0.54	29.85	16.44	2.81
2200.0	19.66	23.49	24.08	14.95	1.08	0.55	30.12	16.65	2.81
2300.0	19.55	23.48	24.65	14.68	1.08	0.55	30.10	16.54	2.87
2400.0	19.42	23.47	25.27	14.58	1.09	0.57	29.71	16.67	2.86
2500.0	19.28	23.46	25.68	14.53	1.09	0.58	29.21	16.36	2.95
2600.0	19.17	23.43	26.34	14.41	1.09	0.59	29.59	16.41	2.89
2700.0	19.05	23.46	27.03	14.49	1.10	0.60	29.52	16.44	2.89
2800.0	18.88	23.50	28.24	14.68	1.11	0.62	29.21	16.41	2.95
2900.0	18.76	23.52	27.78	14.65	1.12	0.63	29.11	16.32	2.92
3000.0	18.68	23.46	26.71	14.75	1.12	0.64	28.93	16.23	2.82
3100.0	18.56	23.46	26.29	14.81	1.13	0.65	28.87	16.13	2.84
3200.0	18.43	23.55	26.18	14.84	1.14	0.67	28.91	16.01	2.86
3300.0	18.31	23.60	25.41	14.65	1.15	0.68	28.63	16.20	2.84
3400.0	18.16	23.67	25.18	14.80	1.17	0.69	28.34	15.90	2.79
3500.0	18.08	23.62	23.61	14.53	1.17	0.70	28.21	15.72	2.94
3600.0	18.00	23.68	22.83	14.78	1.18	0.71	28.14	15.77	2.85
3800.0	17.81	23.80	21.96	14.64	1.20	0.73	28.14	15.65	2.90
4000.0	17.54	23.87	21.60	14.65	1.22	0.75	27.93	15.55	2.97
4200.0	17.42	23.93	20.39	14.20	1.23	0.76	27.60	15.17	2.93
4400.0	17.24	24.21	19.70	14.11	1.27	0.78	27.46	14.72	2.93
4600.0	16.87	24.51	22.14	14.62	1.36	0.81	27.52	14.52	3.03
4800.0	16.87	24.50	18.91	13.51	1.33	0.81	27.34	14.17	3.06
5000.0	16.89	24.87	17.90	13.52	1.36	0.83	26.98	13.65	3.09
5200.0	16.50	24.65	18.22	13.07	1.38	0.82	26.90	13.54	3.12
5400.0	16.80	25.74	17.96	13.80	1.47	0.86	26.20	13.03	3.19
5600.0	16.63	25.62	19.00	13.74	1.49	0.86	26.46	12.92	3.15
5800.0	16.64	25.67	16.90	13.23	1.47	0.87	25.90	12.54	3.25
6000.0	16.82	26.06	16.32	13.35	1.49	0.88	25.55	12.13	3.28

## 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 = 5.5V, Id = 82.05 mA @ Temperature = -45degC

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)
10.0	24.76	28.46	11.24	6.32	0.87	0.39	---	19.89	2.43
30.0	22.87	25.44	15.20	11.65	0.94	0.47	40.78	20.96	3.08
50.0	22.24	25.23	16.86	15.05	1.00	0.52	37.97	20.81	3.09
100.0	21.85	24.82	18.63	19.36	1.03	0.51	38.08	20.80	3.12
200.0	21.72	24.70	19.29	21.96	1.04	0.51	37.81	20.56	3.03
300.0	21.67	24.69	18.32	24.00	1.04	0.52	37.84	20.63	3.21
400.0	21.63	24.68	17.94	24.72	1.05	0.52	38.92	20.77	3.28
500.0	21.59	24.67	17.84	24.27	1.05	0.52	38.65	20.79	3.21
600.0	21.54	24.60	17.79	23.79	1.05	0.51	37.77	20.82	3.25
700.0	21.50	24.57	17.81	22.93	1.05	0.51	38.75	20.92	3.21
800.0	21.44	24.56	17.92	22.39	1.06	0.52	38.90	20.92	3.18
1000.0	21.31	24.43	17.99	21.29	1.06	0.51	37.10	20.93	3.21
1100.0	21.24	24.43	17.73	20.33	1.06	0.51	36.93	20.99	3.18
1200.0	21.16	24.35	17.66	19.49	1.06	0.51	37.46	21.08	3.19
1300.0	21.06	24.29	17.58	18.73	1.06	0.51	37.33	21.06	3.17
1400.0	20.96	24.25	17.58	17.91	1.06	0.51	36.56	21.04	3.22
1500.0	20.87	24.22	17.90	17.41	1.07	0.51	36.40	20.97	3.14
1600.0	20.75	24.09	18.47	17.13	1.07	0.51	36.59	21.00	3.18
1700.0	20.66	24.07	18.82	16.66	1.07	0.51	35.94	20.90	3.08
1800.0	20.55	24.03	19.11	16.19	1.07	0.52	35.39	20.79	3.21
1900.0	20.40	23.98	19.64	16.08	1.08	0.53	34.85	20.59	3.14
2000.0	20.28	23.93	20.12	15.86	1.08	0.53	34.97	20.38	3.12
2100.0	20.16	23.94	20.61	15.53	1.08	0.54	34.53	20.24	3.12
2200.0	20.02	23.87	20.83	15.34	1.09	0.55	34.52	20.16	3.10
2300.0	19.91	23.85	21.58	15.12	1.09	0.55	33.97	19.92	3.16
2400.0	19.78	23.84	22.43	15.09	1.09	0.57	33.57	19.77	3.14
2500.0	19.64	23.84	23.08	15.08	1.10	0.58	32.87	19.41	3.23
2600.0	19.53	23.80	24.26	15.11	1.10	0.59	32.84	19.17	3.21
2700.0	19.41	23.80	25.57	15.25	1.11	0.60	32.56	19.17	3.17
2800.0	19.24	23.85	27.03	15.50	1.12	0.62	32.26	18.93	3.25
2900.0	19.12	23.86	27.58	15.52	1.13	0.63	31.86	18.77	3.17
3000.0	19.04	23.84	28.29	15.81	1.14	0.64	31.70	18.63	3.13
3100.0	18.93	23.83	28.61	15.94	1.14	0.65	31.66	18.49	3.13
3200.0	18.80	23.89	28.85	16.00	1.15	0.67	31.51	18.31	3.15
3300.0	18.68	23.91	28.01	15.85	1.16	0.68	31.04	18.45	3.14
3400.0	18.53	24.03	27.68	16.00	1.18	0.69	30.77	18.15	3.11
3500.0	18.46	23.98	25.97	15.75	1.18	0.70	30.48	17.92	3.25
3600.0	18.38	24.08	25.26	16.20	1.20	0.71	30.46	17.90	3.18
3800.0	18.19	24.11	24.15	16.13	1.21	0.73	30.23	17.75	3.23
4000.0	17.93	24.23	23.42	16.13	1.24	0.75	30.23	17.54	3.30
4200.0	17.82	24.31	21.91	15.75	1.25	0.76	29.77	17.02	3.29
4400.0	17.65	24.54	20.99	15.69	1.29	0.78	29.61	16.51	3.32
4600.0	17.26	24.86	23.64	16.09	1.37	0.81	29.76	16.22	3.43
4800.0	17.31	24.86	19.84	15.11	1.34	0.81	29.51	15.87	3.47
5000.0	17.35	25.26	18.79	15.34	1.38	0.83	29.09	15.30	3.49
5200.0	16.94	24.98	18.68	14.54	1.39	0.83	29.05	15.13	3.53
5400.0	17.30	26.19	18.98	15.96	1.50	0.87	28.34	14.59	3.61
5600.0	17.19	26.07	20.21	16.02	1.51	0.86	28.44	14.56	3.57
5800.0	17.09	26.10	17.29	15.15	1.50	0.88	27.96	14.08	3.70
6000.0	17.36	26.47	17.25	15.56	1.51	0.88	27.62	13.69	3.74

## 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 = 70.8 mA @ Temperature = +85degC

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)
10.0	24.26	27.12	10.76	5.98	0.86	0.25	---	18.45	3.40
30.0	22.44	25.09	15.51	11.18	0.94	0.46	36.32	19.56	4.06
50.0	21.82	24.57	17.85	14.52	0.99	0.48	34.79	19.31	4.11
100.0	21.41	24.44	19.60	19.20	1.03	0.52	35.23	19.34	4.16
200.0	21.25	24.36	19.61	22.52	1.05	0.53	34.93	19.13	4.05
300.0	21.20	24.36	20.27	22.60	1.05	0.53	35.33	19.14	4.35
400.0	21.15	24.34	20.76	22.30	1.05	0.53	35.39	19.24	4.36
500.0	21.11	24.28	20.58	22.47	1.06	0.52	34.76	19.22	4.30
600.0	21.06	24.28	20.54	22.79	1.06	0.53	35.23	19.29	4.33
700.0	21.00	24.24	20.60	22.76	1.06	0.53	35.46	19.39	4.28
800.0	20.94	24.17	20.74	22.80	1.06	0.52	35.53	19.39	4.30
1000.0	20.80	24.05	20.95	22.72	1.07	0.52	34.09	19.38	4.30
1100.0	20.72	24.02	21.10	22.50	1.07	0.53	34.44	19.44	4.27
1200.0	20.63	23.94	21.41	21.99	1.07	0.53	34.92	19.54	4.25
1300.0	20.53	23.90	21.71	21.69	1.07	0.53	34.38	19.47	4.23
1400.0	20.42	23.84	22.20	21.14	1.07	0.53	33.52	19.42	4.31
1500.0	20.32	23.75	22.83	20.56	1.08	0.53	33.51	19.33	4.20
1600.0	20.19	23.74	23.62	20.15	1.08	0.54	33.57	19.35	4.24
1700.0	20.08	23.67	24.60	19.58	1.08	0.55	32.60	19.21	4.10
1800.0	19.95	23.67	25.67	19.09	1.09	0.56	32.63	19.06	4.29
1900.0	19.80	23.62	27.23	19.02	1.09	0.57	31.84	18.76	4.19
2000.0	19.65	23.58	29.10	18.84	1.10	0.58	31.85	18.53	4.23
2100.0	19.52	23.55	31.78	18.46	1.10	0.59	31.44	18.36	4.22
2200.0	19.37	23.53	34.73	18.23	1.11	0.60	31.31	18.15	4.19
2300.0	19.24	23.49	39.82	18.20	1.11	0.61	30.98	17.92	4.22
2400.0	19.09	23.52	36.88	18.16	1.12	0.62	30.74	17.77	4.30
2500.0	18.93	23.56	33.57	18.23	1.13	0.64	30.10	17.36	4.35
2600.0	18.79	23.55	29.82	18.17	1.14	0.65	30.08	17.17	4.31
2700.0	18.64	23.56	27.57	18.34	1.15	0.67	30.01	17.08	4.30
2800.0	18.46	23.65	26.28	18.81	1.17	0.69	29.56	16.93	4.41
2900.0	18.33	23.60	24.40	18.55	1.17	0.70	29.29	16.73	4.37
3000.0	18.20	23.63	22.94	19.00	1.18	0.71	29.04	16.54	4.29
3100.0	18.06	23.71	21.98	19.34	1.19	0.73	28.89	16.32	4.36
3200.0	17.92	23.80	21.26	19.69	1.21	0.75	28.84	16.14	4.34
3300.0	17.78	23.82	20.36	19.51	1.22	0.76	28.52	16.27	4.36
3400.0	17.61	23.98	20.14	20.02	1.25	0.78	28.27	15.91	4.34
3500.0	17.49	23.94	19.26	19.59	1.25	0.78	27.86	15.62	4.49
3600.0	17.36	24.09	18.78	20.10	1.28	0.80	27.98	15.53	4.42
3800.0	17.14	24.21	17.64	19.91	1.31	0.82	27.54	15.03	4.53
4000.0	16.82	24.43	17.30	20.02	1.36	0.85	27.25	14.75	4.62
4200.0	16.66	24.62	16.13	19.56	1.39	0.87	26.55	14.14	4.66
4400.0	16.45	24.95	15.45	19.67	1.45	0.89	26.00	13.55	4.67
4600.0	16.03	24.98	15.90	19.88	1.51	0.90	25.64	13.22	4.79
4800.0	16.03	25.45	13.98	18.82	1.55	0.93	25.22	12.81	4.92
5000.0	15.80	25.72	13.52	18.95	1.61	0.94	24.46	12.28	5.01
5200.0	15.51	25.66	12.69	17.96	1.62	0.96	24.54	12.28	5.07
5400.0	15.48	26.35	12.81	19.13	1.75	0.97	23.76	11.74	5.24
5600.0	15.31	26.32	12.32	18.64	1.76	0.98	23.76	11.56	5.21
5800.0	15.14	26.77	11.13	16.57	1.81	1.01	23.33	11.30	5.32
6000.0	15.24	26.94	11.52	17.24	1.85	1.00	22.72	10.78	5.44

## 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 = 4.5V, Id = 51.63 mA @ Temperature = +85degC

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)
10.0	23.86	27.34	10.62	5.97	0.87	0.33	---	16.02	3.15
30.0	22.07	24.72	15.43	10.59	0.94	0.44	31.38	16.57	3.84
50.0	21.47	24.16	18.69	13.66	0.99	0.46	29.64	16.01	3.93
100.0	21.07	24.11	22.16	17.54	1.03	0.51	30.14	16.18	3.96
200.0	20.92	24.04	22.74	19.92	1.05	0.52	30.31	15.84	3.89
300.0	20.87	24.03	23.77	19.96	1.05	0.52	30.10	15.85	4.10
400.0	20.83	23.98	24.47	19.66	1.05	0.51	30.44	16.06	4.16
500.0	20.79	23.98	24.08	19.80	1.06	0.52	30.11	16.00	4.11
600.0	20.74	23.93	23.89	20.09	1.06	0.51	30.53	16.16	4.13
700.0	20.70	23.92	23.85	20.16	1.06	0.52	30.77	16.35	4.09
800.0	20.64	23.87	23.86	20.27	1.06	0.52	31.02	16.36	4.06
1000.0	20.52	23.75	23.95	20.48	1.06	0.51	30.10	16.37	4.11
1100.0	20.44	23.75	24.09	20.47	1.07	0.52	30.45	16.49	4.06
1200.0	20.36	23.69	24.39	20.29	1.07	0.52	31.35	16.81	4.04
1300.0	20.27	23.63	24.80	20.21	1.07	0.52	30.92	16.77	4.06
1400.0	20.17	23.54	25.45	19.89	1.07	0.52	30.34	16.84	4.10
1500.0	20.07	23.51	26.41	19.51	1.07	0.53	30.61	16.87	4.02
1600.0	19.95	23.48	27.51	19.28	1.08	0.54	30.71	17.11	4.05
1700.0	19.84	23.42	28.94	18.82	1.08	0.54	30.71	17.13	3.94
1800.0	19.72	23.39	30.94	18.46	1.08	0.55	30.62	17.17	4.10
1900.0	19.57	23.37	33.84	18.38	1.09	0.57	30.05	16.91	4.03
2000.0	19.42	23.35	37.86	18.27	1.09	0.58	29.98	16.75	4.03
2100.0	19.30	23.31	44.41	17.89	1.10	0.59	29.89	16.68	3.99
2200.0	19.15	23.31	39.56	17.65	1.10	0.60	29.80	16.58	3.98
2300.0	19.02	23.27	33.83	17.56	1.11	0.61	29.77	16.48	4.04
2400.0	18.87	23.29	30.36	17.47	1.11	0.63	29.39	16.43	4.06
2500.0	18.71	23.34	28.37	17.50	1.12	0.64	28.79	16.05	4.13
2600.0	18.58	23.35	26.12	17.46	1.13	0.66	29.00	15.96	4.12
2700.0	18.43	23.39	24.60	17.49	1.14	0.67	28.92	15.88	4.08
2800.0	18.25	23.46	23.78	17.85	1.16	0.69	28.53	15.79	4.16
2900.0	18.12	23.41	22.37	17.53	1.16	0.70	28.29	15.65	4.13
3000.0	17.99	23.42	21.23	17.82	1.17	0.72	28.16	15.49	4.08
3100.0	17.85	23.54	20.58	17.99	1.19	0.73	28.00	15.31	4.10
3200.0	17.71	23.61	19.99	18.20	1.20	0.75	27.95	15.15	4.17
3300.0	17.57	23.62	19.30	17.92	1.21	0.76	27.70	15.30	4.13
3400.0	17.40	23.77	19.16	18.32	1.24	0.78	27.51	14.98	4.10
3500.0	17.29	23.77	18.39	17.93	1.24	0.79	27.09	14.69	4.26
3600.0	17.15	23.91	18.04	18.18	1.27	0.80	27.26	14.64	4.18
3800.0	16.93	24.02	17.08	17.86	1.29	0.82	26.85	14.23	4.26
4000.0	16.62	24.20	16.80	17.87	1.34	0.84	26.57	13.98	4.31
4200.0	16.46	24.41	15.78	17.41	1.37	0.86	25.95	13.42	4.36
4400.0	16.25	24.77	15.18	17.46	1.43	0.89	25.40	12.85	4.41
4600.0	15.83	24.80	15.61	17.59	1.50	0.90	25.11	12.54	4.51
4800.0	15.83	25.17	13.84	16.74	1.52	0.92	24.72	12.13	4.60
5000.0	15.61	25.53	13.41	16.77	1.59	0.94	23.95	11.64	4.68
5200.0	15.33	25.48	12.66	15.99	1.60	0.95	24.01	11.62	4.72
5400.0	15.29	26.11	12.73	16.80	1.72	0.97	23.19	11.09	4.88
5600.0	15.11	26.06	12.33	16.43	1.73	0.97	23.29	10.92	4.84
5800.0	14.97	26.52	11.16	14.86	1.77	1.00	22.79	10.64	4.92
6000.0	15.05	26.63	11.60	15.34	1.80	0.99	22.18	10.12	5.04



## 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 = 5.5V, Id = 92.13 mA @ Temperature = +85degC

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)
10.0	24.49	27.26	11.42	6.36	0.86	0.28	---	20.30	3.66
30.0	22.62	25.21	15.43	11.47	0.94	0.46	40.74	21.49	4.27
50.0	21.98	24.63	17.29	14.97	0.99	0.48	39.95	21.47	4.32
100.0	21.56	24.57	18.46	20.08	1.03	0.52	38.50	21.43	4.39
200.0	21.40	24.54	18.32	24.10	1.05	0.53	39.70	21.36	4.34
300.0	21.35	24.52	18.89	24.43	1.05	0.53	38.41	21.36	4.49
400.0	21.30	24.53	19.30	24.09	1.06	0.54	38.55	21.37	4.60
500.0	21.25	24.44	19.18	24.47	1.06	0.53	39.16	21.42	4.51
600.0	21.20	24.42	19.16	24.99	1.06	0.53	38.14	21.40	4.55
700.0	21.14	24.34	19.26	24.98	1.06	0.53	37.53	21.44	4.52
800.0	21.08	24.30	19.40	25.03	1.06	0.53	37.80	21.43	4.48
1000.0	20.92	24.21	19.68	24.90	1.07	0.53	35.16	21.40	4.53
1100.0	20.84	24.14	19.84	24.48	1.07	0.53	35.22	21.36	4.48
1200.0	20.74	24.04	20.12	23.79	1.07	0.53	35.25	21.28	4.49
1300.0	20.64	24.00	20.42	23.31	1.07	0.53	34.58	21.14	4.46
1400.0	20.53	23.93	20.89	22.62	1.07	0.54	33.67	20.99	4.54
1500.0	20.42	23.84	21.50	21.83	1.07	0.54	33.57	20.84	4.45
1600.0	20.28	23.83	22.33	21.30	1.08	0.55	33.29	20.67	4.45
1700.0	20.17	23.73	23.23	20.64	1.08	0.55	33.00	20.40	4.39
1800.0	20.04	23.68	24.30	20.03	1.08	0.55	32.37	20.14	4.52
1900.0	19.88	23.68	25.74	19.96	1.09	0.57	31.84	19.77	4.42
2000.0	19.72	23.62	27.50	19.81	1.10	0.58	31.68	19.46	4.46
2100.0	19.59	23.57	30.04	19.43	1.10	0.59	31.25	19.23	4.47
2200.0	19.45	23.56	33.35	19.23	1.11	0.60	30.92	18.95	4.45
2300.0	19.31	23.56	41.71	19.27	1.11	0.61	30.83	18.66	4.50
2400.0	19.16	23.49	42.40	19.30	1.12	0.62	30.38	18.48	4.53
2500.0	18.99	23.51	36.09	19.45	1.13	0.64	29.78	17.96	4.62
2600.0	18.85	23.52	30.86	19.41	1.14	0.65	29.68	17.77	4.55
2700.0	18.70	23.55	27.97	19.84	1.15	0.67	29.46	17.64	4.55
2800.0	18.51	23.61	26.32	20.41	1.16	0.69	29.21	17.48	4.66
2900.0	18.37	23.57	24.40	20.28	1.17	0.70	28.90	17.24	4.64
3000.0	18.24	23.61	22.72	21.02	1.18	0.71	28.65	17.06	4.59
3100.0	18.10	23.72	21.68	21.69	1.20	0.73	28.45	16.78	4.66
3200.0	17.95	23.82	20.85	22.32	1.22	0.75	28.29	16.55	4.66
3300.0	17.81	23.81	19.98	22.34	1.23	0.76	28.21	16.74	4.68
3400.0	17.63	23.95	19.67	23.17	1.25	0.78	27.79	16.30	4.67
3500.0	17.51	23.94	18.82	22.97	1.26	0.79	27.48	15.98	4.78
3600.0	17.37	24.13	18.28	23.77	1.29	0.81	27.50	15.89	4.75
3800.0	17.14	24.20	17.11	23.91	1.31	0.83	26.99	15.36	4.86
4000.0	16.81	24.46	16.71	24.34	1.37	0.85	26.65	15.04	4.94
4200.0	16.63	24.64	15.56	23.84	1.41	0.87	25.96	14.42	5.04
4400.0	16.40	24.99	14.86	24.03	1.47	0.90	25.39	13.81	5.09
4600.0	15.96	25.01	15.28	24.65	1.54	0.91	25.02	13.49	5.20
4800.0	15.94	25.47	13.41	22.59	1.57	0.94	24.65	13.06	5.34
5000.0	15.71	25.87	12.95	22.80	1.66	0.96	23.92	12.51	5.45
5200.0	15.39	25.76	12.17	21.41	1.67	0.97	24.06	12.57	5.51
5400.0	15.36	26.55	12.28	22.86	1.82	0.99	23.37	12.07	5.71
5600.0	15.16	26.56	11.76	22.15	1.84	1.00	23.23	11.85	5.67
5800.0	14.97	27.02	10.68	19.16	1.90	1.03	22.95	11.63	5.81
6000.0	15.04	27.22	11.00	19.76	1.95	1.02	22.35	11.13	5.92