

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 = 5.00V, Id = 32mA @ Temperature = +25°C

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	22.37	26.57	19.17	15.14	1.09	0.60	22.05	10.96	2.32
20	22.64	25.81	24.03	17.45	1.05	0.50	22.82	10.61	2.16
30	22.72	25.87	26.65	18.46	1.06	0.50	22.79	10.87	2.13
40	22.76	25.80	28.88	19.04	1.05	0.49	22.03	10.52	2.15
50	22.78	26.42	32.47	19.12	1.08	0.56	20.78	10.00	2.12
60	22.81	25.85	32.47	19.80	1.05	0.49	22.15	10.44	2.11
70	22.83	25.79	34.08	19.96	1.05	0.49	22.42	10.66	2.10
80	22.83	25.74	36.38	20.18	1.05	0.48	22.27	10.47	2.13
90	22.84	25.78	38.63	20.23	1.05	0.48	22.48	10.64	2.16
100	22.84	25.71	40.97	20.38	1.05	0.47	22.82	10.90	2.11
200	22.77	25.65	36.61	20.84	1.05	0.48	22.62	10.75	2.20
250	22.71	25.59	33.06	20.94	1.05	0.48	22.36	10.42	2.23
300	22.64	25.58	30.37	21.14	1.05	0.48	22.24	10.65	2.26
350	22.56	25.50	28.37	21.16	1.05	0.49	22.74	10.77	2.29
400	22.47	25.54	27.00	21.38	1.06	0.50	22.56	10.54	2.33
450	22.38	25.46	25.65	21.61	1.06	0.50	22.49	10.34	2.32
500	22.29	25.44	24.55	21.74	1.06	0.51	22.15	10.35	2.31
550	22.19	25.39	23.66	22.11	1.06	0.52	22.94	11.01	2.30
600	22.09	25.31	22.76	22.53	1.06	0.52	22.60	10.52	2.33
650	21.98	25.28	22.05	22.99	1.06	0.53	22.46	10.51	2.29
700	21.88	25.21	21.34	23.63	1.06	0.54	22.46	10.52	2.28
750	21.77	25.13	20.78	24.30	1.07	0.55	22.14	10.29	2.26
800	21.66	25.09	20.24	25.09	1.07	0.55	22.38	10.30	2.19
850	21.55	25.03	19.75	25.96	1.07	0.56	22.41	10.34	2.17
900	21.44	24.98	19.27	27.13	1.07	0.57	22.45	10.70	2.16
950	21.31	24.90	18.88	28.43	1.07	0.58	21.54	9.71	2.17
1000	21.20	24.84	18.46	30.01	1.08	0.58	21.98	9.90	2.16
1050	21.08	24.76	18.16	32.17	1.08	0.59	21.80	9.81	2.19
1100	20.96	24.70	17.79	35.04	1.08	0.59	22.10	10.20	2.17
1150	20.83	24.63	17.50	40.08	1.08	0.60	22.53	10.21	2.18
1200	20.71	24.60	17.21	52.64	1.09	0.61	21.64	9.83	2.18
1250	20.59	24.49	17.01	43.84	1.09	0.61	22.29	9.99	2.21
1300	20.45	24.44	16.77	36.57	1.09	0.62	22.06	9.99	2.17
1350	20.33	24.36	16.57	32.38	1.09	0.62	22.07	10.07	2.18
1400	20.19	24.29	16.35	29.82	1.10	0.63	21.55	9.62	2.22
1450	20.05	24.25	16.22	27.74	1.10	0.64	21.75	9.72	2.19
1500	19.92	24.22	16.02	25.98	1.11	0.64	21.05	9.35	2.21
1550	19.78	24.09	15.87	24.54	1.11	0.64	21.92	9.65	2.28
1600	19.64	24.06	15.75	23.24	1.11	0.65	21.69	9.52	2.28
1650	19.50	24.00	15.58	22.16	1.12	0.66	21.73	9.68	2.26
1700	19.36	23.96	15.49	21.18	1.12	0.66	21.35	9.26	2.26
1750	19.22	23.92	15.37	20.25	1.13	0.67	21.38	9.44	2.23
1800	19.08	23.85	15.25	19.41	1.13	0.67	21.74	9.78	2.23
1850	18.93	23.78	15.15	18.67	1.14	0.67	22.06	9.61	2.29
1900	18.79	23.76	15.08	17.95	1.14	0.68	21.90	9.54	2.27
1950	18.64	23.69	15.00	17.30	1.15	0.68	21.38	9.24	2.30
2000	18.50	23.62	14.90	16.69	1.15	0.68	21.61	9.46	2.29
3000	15.58	22.74	13.09	9.76	1.26	0.68	22.09	9.85	2.50
3500	14.24	22.34	11.87	8.03	1.30	0.66	23.21	10.45	2.56
4000	13.05	21.84	11.01	7.07	1.32	0.64	22.81	10.62	2.67
4500	12.08	21.21	10.72	6.73	1.34	0.64	21.29	10.13	2.75
5000	11.32	20.51	11.18	6.96	1.36	0.65	19.10	9.00	2.87
5500	10.72	19.65	12.36	7.79	1.37	0.68	17.35	8.12	2.97
6000	10.11	18.89	13.64	9.11	1.41	0.73	16.67	7.44	3.23



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 = 26mA @ Temperature = +25°C

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			
10	21.75	25.51	17.28	17.43	1.07	0.58	18.77	8.37	2.38
20	22.01	25.46	20.31	20.85	1.07	0.55	19.90	8.25	2.21
30	22.08	25.34	21.55	22.74	1.06	0.53	19.99	8.41	2.20
40	22.13	25.31	22.21	24.12	1.06	0.52	19.31	7.97	2.23
50	22.14	24.84	22.88	24.61	1.04	0.47	17.93	7.55	2.22
60	22.17	25.21	23.04	25.86	1.05	0.51	19.26	7.95	2.17
70	22.19	25.24	23.30	26.51	1.06	0.51	19.66	8.19	2.19
80	22.20	25.26	23.52	27.10	1.06	0.51	19.47	8.02	2.20
90	22.21	25.19	23.78	27.40	1.05	0.50	19.58	8.20	2.21
100	22.22	25.24	23.94	27.68	1.05	0.51	19.95	8.45	2.19
200	22.15	25.13	24.48	28.91	1.05	0.50	19.81	8.17	2.27
250	22.10	25.17	24.36	28.84	1.06	0.51	19.42	7.97	2.33
300	22.04	25.03	24.00	29.12	1.05	0.50	19.34	8.08	2.35
350	21.96	25.13	23.77	28.84	1.06	0.52	19.85	8.34	2.34
400	21.88	25.04	23.41	28.87	1.06	0.52	19.61	8.11	2.41
450	21.80	24.98	22.90	29.06	1.06	0.52	19.48	7.82	2.40
500	21.71	24.91	22.51	29.06	1.06	0.53	19.19	7.94	2.36
550	21.63	24.88	22.15	29.36	1.06	0.53	20.00	8.51	2.35
600	21.53	24.86	21.62	29.97	1.07	0.54	19.65	8.13	2.38
650	21.43	24.81	21.14	30.49	1.07	0.55	19.45	8.01	2.37
700	21.34	24.76	20.65	31.44	1.07	0.55	19.41	8.14	2.35
750	21.23	24.75	20.22	32.12	1.08	0.56	19.15	7.90	2.32
800	21.14	24.67	19.81	32.77	1.08	0.57	19.33	7.92	2.30
850	21.03	24.64	19.43	33.36	1.08	0.57	19.36	7.96	2.24
900	20.93	24.58	19.06	33.73	1.08	0.58	19.40	8.24	2.24
950	20.81	24.54	18.69	33.57	1.08	0.59	18.44	7.25	2.23
1000	20.71	24.47	18.33	32.82	1.09	0.59	18.77	7.47	2.22
1050	20.60	24.42	18.07	31.76	1.09	0.60	18.61	7.37	2.24
1100	20.48	24.37	17.71	30.55	1.09	0.60	18.98	7.87	2.25
1150	20.37	24.32	17.45	29.23	1.10	0.61	19.34	7.78	2.26
1200	20.25	24.25	17.18	27.89	1.10	0.61	18.39	7.39	2.27
1250	20.13	24.19	16.95	26.65	1.10	0.62	19.10	7.58	2.27
1300	20.01	24.17	16.72	25.51	1.10	0.63	18.76	7.56	2.24
1350	19.89	24.11	16.48	24.41	1.11	0.63	18.91	7.55	2.27
1400	19.76	24.05	16.28	23.43	1.11	0.63	18.24	7.20	2.25
1450	19.63	23.97	16.14	22.53	1.11	0.64	18.40	7.21	2.25
1500	19.50	23.99	15.90	21.71	1.12	0.65	17.66	6.94	2.27
1550	19.38	23.90	15.75	20.88	1.12	0.65	18.57	7.26	2.32
1600	19.24	23.90	15.60	20.15	1.13	0.66	18.18	7.04	2.34
1650	19.11	23.80	15.44	19.46	1.13	0.66	18.37	7.20	2.31
1700	18.97	23.78	15.31	18.81	1.14	0.66	17.82	6.88	2.32
1750	18.84	23.74	15.16	18.17	1.14	0.67	17.91	6.95	2.34
1800	18.70	23.66	15.03	17.57	1.15	0.67	18.36	7.31	2.31
1850	18.57	23.62	14.91	17.06	1.15	0.67	18.60	7.13	2.35
1900	18.43	23.56	14.81	16.49	1.16	0.67	18.39	7.07	2.32
1950	18.29	23.52	14.70	16.01	1.16	0.68	17.76	6.88	2.34
2000	18.15	23.48	14.57	15.54	1.17	0.68	18.04	7.00	2.33
3000	15.35	22.71	12.47	9.57	1.27	0.69	18.53	7.62	2.36
3500	14.04	22.33	11.28	7.95	1.31	0.67	20.18	8.42	2.63
4000	12.89	21.82	10.50	7.06	1.33	0.65	20.71	9.12	2.77
4500	11.94	21.25	10.23	6.75	1.36	0.65	20.42	9.36	2.80
5000	11.19	20.53	10.70	7.01	1.37	0.66	18.70	8.56	2.94
5500	10.62	19.71	11.87	7.89	1.39	0.70	17.04	7.85	3.09
6000	10.02	18.93	13.23	9.27	1.42	0.74	16.43	7.29	3.27



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 = 5.25, Id = 37mA @ Temperature = +25°C

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	22.77	26.68	19.90	13.52	1.07	0.54	24.14	12.39	2.31
20	23.04	26.29	24.06	15.53	1.05	0.49	25.01	12.49	2.17
30	23.12	26.27	25.97	16.17	1.05	0.49	25.23	12.61	2.14
40	23.17	26.24	27.21	16.63	1.05	0.48	24.36	12.38	2.19
50	23.18	26.62	30.30	16.63	1.07	0.52	23.15	11.92	2.17
60	23.21	26.20	28.78	17.09	1.05	0.47	24.55	12.36	2.12
70	23.23	26.16	28.92	17.23	1.05	0.47	24.62	12.56	2.13
80	23.24	26.04	29.00	17.37	1.04	0.45	24.60	12.37	2.15
90	23.24	26.14	29.14	17.38	1.05	0.46	24.89	12.50	2.17
100	23.25	26.12	29.17	17.45	1.05	0.46	25.24	12.75	2.14
200	23.16	26.05	27.77	17.80	1.05	0.46	24.92	12.54	2.21
250	23.10	25.94	26.80	17.89	1.05	0.46	24.69	12.42	2.25
300	23.03	25.93	26.03	18.09	1.05	0.47	24.48	12.54	2.30
350	22.94	25.93	25.01	18.14	1.05	0.48	25.06	12.63	2.31
400	22.85	25.85	24.21	18.33	1.05	0.48	24.81	12.40	2.37
450	22.75	25.82	23.40	18.55	1.05	0.49	24.90	12.19	2.35
500	22.65	25.77	22.58	18.74	1.05	0.50	24.47	12.31	2.31
550	22.55	25.70	21.93	19.01	1.05	0.51	25.19	12.70	2.33
600	22.44	25.63	21.26	19.37	1.06	0.51	24.99	12.36	2.35
650	22.33	25.57	20.70	19.78	1.06	0.52	24.73	12.35	2.33
700	22.22	25.51	20.16	20.23	1.06	0.53	24.71	12.35	2.30
750	22.11	25.47	19.68	20.74	1.06	0.54	24.36	12.13	2.29
800	21.99	25.36	19.24	21.36	1.06	0.55	24.73	12.23	2.23
850	21.87	25.29	18.85	21.98	1.06	0.55	24.70	12.26	2.18
900	21.76	25.22	18.45	22.78	1.06	0.56	24.72	12.49	2.19
950	21.63	25.17	18.13	23.60	1.07	0.57	23.96	11.54	2.19
1000	21.51	25.04	17.77	24.60	1.07	0.57	24.38	11.80	2.17
1050	21.39	25.01	17.51	25.74	1.07	0.58	24.12	11.72	2.21
1100	21.26	24.93	17.19	27.10	1.07	0.59	24.38	12.09	2.22
1150	21.13	24.86	16.96	28.87	1.07	0.60	24.75	12.10	2.19
1200	21.00	24.76	16.72	31.03	1.08	0.60	23.96	11.74	2.25
1250	20.87	24.68	16.55	33.83	1.08	0.61	24.52	11.88	2.23
1300	20.73	24.65	16.33	37.16	1.08	0.62	24.43	11.78	2.21
1350	20.60	24.55	16.17	38.08	1.08	0.62	24.61	11.86	2.22
1400	20.46	24.49	15.99	35.66	1.09	0.63	23.91	11.52	2.22
1450	20.32	24.43	15.88	32.47	1.09	0.64	24.31	11.51	2.23
1500	20.18	24.34	15.73	29.65	1.10	0.64	23.52	11.25	2.25
1550	20.04	24.29	15.59	27.46	1.10	0.65	24.37	11.53	2.29
1600	19.89	24.25	15.50	25.64	1.11	0.66	24.15	11.31	2.32
1650	19.75	24.14	15.39	24.14	1.11	0.66	24.17	11.46	2.28
1700	19.60	24.09	15.33	22.88	1.11	0.66	23.84	11.13	2.29
1750	19.46	24.04	15.22	21.68	1.12	0.67	23.94	11.32	2.29
1800	19.31	23.93	15.14	20.69	1.12	0.67	24.11	11.63	2.28
1850	19.16	23.89	15.07	19.80	1.13	0.67	24.48	11.47	2.39
1900	19.01	23.83	15.03	18.93	1.13	0.67	24.42	11.40	2.29
1950	18.87	23.73	14.99	18.16	1.13	0.67	23.91	11.10	2.33
2000	18.72	23.73	14.90	17.46	1.14	0.68	24.14	11.31	2.33
3000	15.74	22.77	13.47	9.88	1.25	0.68	24.27	11.52	2.45
3500	14.38	22.32	12.27	8.09	1.29	0.66	24.66	11.90	2.62
4000	13.17	21.84	11.39	7.10	1.32	0.64	23.48	11.40	2.76
4500	12.18	21.22	11.07	6.73	1.33	0.63	21.42	10.53	2.80
5000	11.40	20.45	11.55	6.94	1.35	0.65	19.20	9.14	2.91
5500	10.79	19.60	12.74	7.74	1.36	0.68	17.46	8.33	3.09
6000	10.17	18.83	13.92	9.03	1.39	0.72	16.80	7.63	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 = 5.00V, Id = 29mA @ Temperature = -45°C

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	22.34	25.80	18.27	14.12	1.05	0.51	18.84	8.72	1.89
20	22.64	26.02	22.56	16.93	1.06	0.52	20.13	8.53	1.76
30	22.73	25.89	25.31	18.20	1.05	0.50	20.30	8.95	1.73
40	22.78	25.76	27.18	19.02	1.05	0.49	19.59	8.50	1.76
50	22.80	26.05	27.81	19.28	1.06	0.52	18.10	8.09	1.74
60	22.83	25.87	29.77	20.02	1.05	0.49	19.63	8.55	1.70
70	22.86	25.71	31.31	20.31	1.05	0.47	19.99	8.78	1.72
80	22.87	25.81	32.57	20.68	1.05	0.49	19.85	8.49	1.76
90	22.88	25.74	33.48	20.83	1.05	0.48	19.93	8.65	1.75
100	22.89	25.69	34.52	21.07	1.05	0.47	20.28	8.91	1.74
200	22.84	25.62	36.41	22.14	1.05	0.47	20.18	8.69	1.79
250	22.79	25.59	33.70	21.95	1.05	0.47	19.90	8.60	1.87
300	22.73	25.52	31.00	21.75	1.05	0.47	19.93	8.74	1.90
350	22.65	25.50	28.73	21.40	1.05	0.48	20.49	8.99	1.89
400	22.57	25.51	27.17	21.42	1.05	0.49	20.31	8.77	1.95
450	22.48	25.45	25.95	21.72	1.05	0.49	20.16	8.55	1.94
500	22.39	25.40	24.82	22.08	1.05	0.50	19.88	8.57	1.92
550	22.30	25.38	23.92	22.52	1.06	0.51	20.76	9.25	1.91
600	22.20	25.29	22.95	23.01	1.06	0.51	20.39	8.76	1.92
650	22.10	25.23	22.16	23.51	1.06	0.52	20.18	8.64	1.90
700	21.99	25.18	21.38	24.10	1.06	0.53	20.14	8.76	1.89
750	21.88	25.14	20.70	24.81	1.06	0.53	19.81	8.52	1.88
800	21.78	25.09	20.12	25.75	1.06	0.54	20.02	8.53	1.81
850	21.67	24.99	19.59	26.79	1.06	0.55	20.03	8.57	1.79
900	21.56	24.96	19.12	28.08	1.07	0.56	20.11	8.84	1.78
950	21.44	24.84	18.71	29.46	1.07	0.56	18.98	7.83	1.78
1000	21.33	24.80	18.34	31.17	1.07	0.57	19.47	8.03	1.78
1050	21.21	24.72	18.05	33.46	1.07	0.57	19.19	7.94	1.80
1100	21.10	24.67	17.73	36.91	1.07	0.58	19.64	8.44	1.80
1150	20.97	24.63	17.48	43.10	1.08	0.59	20.08	8.46	1.80
1200	20.85	24.56	17.19	51.59	1.08	0.59	18.31	7.97	1.81
1250	20.73	24.51	16.95	41.38	1.08	0.60	19.83	8.24	1.82
1300	20.60	24.43	16.70	36.29	1.08	0.61	18.84	8.14	1.78
1350	20.47	24.39	16.50	32.64	1.09	0.61	19.62	8.22	1.79
1400	20.34	24.28	16.32	30.17	1.09	0.62	18.88	7.76	1.79
1450	20.20	24.27	16.19	28.12	1.09	0.63	19.27	7.87	1.79
1500	20.07	24.18	16.02	26.29	1.10	0.63	18.37	7.49	1.82
1550	19.94	24.12	15.90	24.72	1.10	0.63	19.04	7.81	1.85
1600	19.80	24.05	15.79	23.45	1.10	0.64	18.70	7.58	1.89
1650	19.66	24.00	15.64	22.38	1.11	0.64	18.87	7.83	1.86
1700	19.52	23.95	15.55	21.39	1.11	0.65	18.28	7.40	1.84
1750	19.38	23.88	15.44	20.50	1.12	0.65	18.41	7.58	1.86
1800	19.24	23.85	15.32	19.62	1.12	0.66	18.89	7.94	1.85
1850	19.10	23.79	15.23	18.83	1.13	0.66	19.38	7.76	1.92
1900	18.95	23.73	15.18	18.07	1.13	0.66	19.19	7.69	1.85
1950	18.81	23.69	15.10	17.40	1.14	0.67	18.46	7.39	1.88
2000	18.67	23.60	15.03	16.84	1.14	0.67	18.82	7.51	1.88
3000	15.82	22.74	13.21	9.57	1.24	0.66	19.25	7.98	2.03
3500	14.52	22.28	11.96	7.83	1.26	0.64	20.98	8.89	2.11
4000	13.36	21.79	11.00	6.83	1.28	0.61	21.43	9.68	2.22
4500	12.41	21.16	10.71	6.44	1.29	0.60	21.96	10.35	2.23
5000	11.68	20.41	11.25	6.60	1.30	0.61	20.40	9.63	2.35
5500	11.12	19.57	12.41	7.37	1.31	0.64	18.76	8.81	2.48
6000	10.57	18.74	13.59	8.54	1.32	0.68	18.26	8.25	2.64

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 = 4.75, Id = 24mA @ Temperature = -45°C

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			
10	21.52	26.18	15.54	16.63	1.11	0.66	15.09	5.47	1.93
20	21.84	25.35	18.41	20.50	1.07	0.56	16.33	5.50	1.79
30	21.93	25.28	19.55	22.85	1.06	0.54	16.60	5.83	1.78
40	21.98	25.19	20.10	24.82	1.06	0.53	15.94	5.42	1.78
50	21.99	25.17	20.32	25.49	1.06	0.53	14.54	4.99	1.74
60	22.03	25.12	20.60	27.62	1.06	0.52	15.89	5.40	1.74
70	22.05	25.15	20.79	28.83	1.06	0.52	16.29	5.74	1.75
80	22.07	25.05	20.97	29.98	1.05	0.51	16.12	5.48	1.76
90	22.08	25.10	21.03	30.97	1.05	0.51	16.23	5.68	1.77
100	22.09	25.10	21.14	31.70	1.05	0.51	16.50	5.91	1.79
200	22.06	25.01	21.55	39.89	1.05	0.50	16.39	5.66	1.85
250	22.02	24.93	22.10	38.52	1.05	0.50	16.14	5.49	1.89
300	21.97	24.93	22.39	36.33	1.05	0.50	16.03	5.75	1.92
350	21.91	24.92	22.64	33.63	1.06	0.51	16.53	5.92	1.93
400	21.83	24.87	22.60	32.78	1.06	0.51	16.33	5.69	1.97
450	21.75	24.86	22.19	32.66	1.06	0.52	16.15	5.40	1.95
500	21.67	24.80	21.88	32.88	1.06	0.52	15.89	5.53	1.92
550	21.59	24.75	21.54	32.92	1.06	0.52	16.76	6.10	1.92
600	21.50	24.70	21.04	33.44	1.06	0.53	16.30	5.72	1.92
650	21.40	24.67	20.63	33.50	1.07	0.54	16.04	5.60	1.91
700	21.31	24.65	20.18	33.79	1.07	0.54	16.02	5.62	1.89
750	21.21	24.58	19.78	33.50	1.07	0.55	15.78	5.38	1.89
800	21.12	24.58	19.35	32.90	1.07	0.56	15.81	5.40	1.80
850	21.02	24.52	18.98	32.33	1.08	0.56	15.85	5.45	1.80
900	20.92	24.47	18.64	31.50	1.08	0.57	15.86	5.74	1.79
950	20.81	24.43	18.32	30.75	1.08	0.58	14.85	4.73	1.80
1000	20.71	24.37	18.01	29.73	1.08	0.58	15.10	4.96	1.79
1050	20.60	24.32	17.80	28.80	1.08	0.58	14.96	4.87	1.82
1100	20.50	24.28	17.50	27.81	1.09	0.59	15.26	5.26	1.84
1150	20.39	24.22	17.27	26.80	1.09	0.60	15.60	5.29	1.78
1200	20.27	24.16	17.01	25.86	1.09	0.60	14.63	4.89	1.86
1250	20.16	24.13	16.80	25.05	1.10	0.61	15.29	5.09	1.83
1300	20.04	24.06	16.60	24.20	1.10	0.61	14.98	5.08	1.82
1350	19.93	24.03	16.43	23.34	1.10	0.62	15.11	5.07	1.82
1400	19.80	23.96	16.27	22.54	1.10	0.62	14.47	4.71	1.79
1450	19.67	23.92	16.14	21.74	1.11	0.63	14.56	4.73	1.80
1500	19.55	23.89	15.92	21.01	1.11	0.63	13.82	4.34	1.85
1550	19.43	23.84	15.78	20.32	1.12	0.64	14.66	4.69	1.86
1600	19.30	23.82	15.63	19.68	1.12	0.64	14.17	4.46	1.87
1650	19.18	23.76	15.49	19.06	1.13	0.65	14.38	4.62	1.88
1700	19.04	23.75	15.36	18.50	1.13	0.65	13.79	4.30	1.84
1750	18.91	23.69	15.24	17.90	1.14	0.66	13.82	4.46	1.90
1800	18.78	23.65	15.09	17.33	1.14	0.66	14.23	4.74	1.82
1850	18.64	23.56	14.99	16.80	1.14	0.66	14.55	4.65	1.92
1900	18.51	23.56	14.88	16.30	1.15	0.67	14.25	4.60	1.85
1950	18.37	23.52	14.77	15.81	1.16	0.67	13.64	4.31	1.91
2000	18.24	23.43	14.68	15.39	1.16	0.67	13.89	4.43	1.89
3000	15.53	22.64	12.45	9.34	1.25	0.67	14.15	5.04	2.02
3500	14.30	22.24	11.26	7.75	1.27	0.64	15.99	5.95	2.10
4000	13.17	21.79	10.39	6.83	1.29	0.63	16.89	7.09	2.21
4500	12.26	21.20	10.15	6.52	1.31	0.62	18.86	8.94	2.23
5000	11.56	20.46	10.68	6.68	1.31	0.63	19.12	8.78	2.34
5500	11.02	19.61	11.81	7.51	1.33	0.66	18.15	8.32	2.44
6000	10.48	18.80	13.07	8.69	1.34	0.70	17.87	7.94	2.58



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 = 35mA @ Temperature = -45°C

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	22.78	26.96	18.12	13.07	1.08	0.57	21.97	11.13	1.87
20	23.10	26.31	23.04	15.01	1.05	0.48	23.17	11.01	1.78
30	23.19	26.28	24.97	15.84	1.05	0.48	23.39	11.30	1.74
40	23.25	26.29	26.28	16.31	1.05	0.47	22.68	10.83	1.78
50	23.26	25.97	27.76	16.36	1.04	0.43	21.30	10.46	1.77
60	23.30	26.22	28.00	16.89	1.05	0.46	22.79	10.91	1.73
70	23.32	26.24	28.34	17.11	1.05	0.46	22.98	11.14	1.73
80	23.33	26.23	28.69	17.27	1.05	0.46	22.88	10.93	1.76
90	23.34	26.18	28.81	17.37	1.05	0.46	23.09	11.09	1.78
100	23.35	26.19	28.94	17.48	1.05	0.46	23.57	11.37	1.77
200	23.29	26.08	27.99	18.07	1.04	0.45	23.28	11.15	1.82
250	23.23	25.94	26.63	18.04	1.04	0.44	22.98	11.04	1.88
300	23.16	26.00	25.25	18.00	1.05	0.46	23.12	11.19	1.91
350	23.08	25.93	24.03	17.85	1.05	0.46	23.63	11.41	1.91
400	22.99	25.90	23.22	17.93	1.05	0.47	23.51	11.19	1.97
450	22.90	25.83	22.70	18.17	1.05	0.48	23.46	10.95	1.96
500	22.80	25.79	22.22	18.48	1.05	0.48	23.05	10.98	1.94
550	22.70	25.71	21.80	18.98	1.05	0.49	23.99	11.64	1.95
600	22.60	25.68	21.27	19.49	1.05	0.50	23.56	11.15	1.96
650	22.49	25.55	20.65	19.96	1.05	0.50	23.37	11.03	1.94
700	22.38	25.50	19.98	20.38	1.05	0.51	23.30	11.15	1.90
750	22.26	25.48	19.39	20.83	1.05	0.53	23.10	10.80	1.90
800	22.15	25.43	18.86	21.40	1.06	0.54	23.29	10.91	1.84
850	22.03	25.36	18.44	21.91	1.06	0.55	23.30	10.95	1.81
900	21.91	25.22	18.10	22.66	1.06	0.55	23.41	11.20	1.80
950	21.79	25.19	17.81	23.40	1.06	0.56	22.45	10.20	1.81
1000	21.67	25.09	17.51	24.23	1.06	0.56	22.90	10.36	1.80
1050	21.55	25.03	17.27	25.21	1.06	0.57	22.63	10.38	1.84
1100	21.42	24.93	16.98	26.31	1.06	0.58	22.99	10.68	1.82
1150	21.29	24.85	16.75	27.83	1.06	0.58	23.39	10.79	1.83
1200	21.17	24.77	16.51	29.62	1.07	0.59	22.46	10.31	1.86
1250	21.04	24.71	16.34	31.88	1.07	0.60	23.21	10.56	1.82
1300	20.90	24.63	16.16	34.25	1.07	0.60	22.92	10.47	1.82
1350	20.77	24.54	16.01	35.61	1.07	0.61	23.32	10.54	1.84
1400	20.63	24.48	15.85	34.48	1.08	0.62	22.52	10.19	1.81
1450	20.49	24.44	15.73	32.43	1.08	0.62	22.86	10.19	1.81
1500	20.35	24.37	15.57	29.95	1.09	0.63	22.03	9.90	1.85
1550	20.21	24.27	15.43	27.92	1.09	0.63	23.01	10.21	1.89
1600	20.06	24.22	15.36	26.18	1.09	0.64	22.63	9.97	1.92
1650	19.92	24.17	15.27	24.61	1.10	0.65	22.78	10.13	1.89
1700	19.77	24.11	15.22	23.22	1.10	0.65	22.36	9.69	1.87
1750	19.63	23.99	15.16	22.03	1.10	0.65	22.41	9.88	1.90
1800	19.48	24.01	15.07	20.96	1.11	0.66	22.80	10.22	1.87
1850	19.34	23.88	15.05	20.06	1.11	0.66	22.93	10.15	1.90
1900	19.19	23.88	15.00	19.20	1.12	0.67	22.83	9.98	1.89
1950	19.04	23.77	14.96	18.43	1.12	0.67	22.27	9.76	1.91
2000	18.89	23.74	14.93	17.73	1.13	0.67	22.46	9.88	1.92
3000	15.97	22.78	13.68	9.80	1.23	0.67	23.10	10.27	2.02
3500	14.63	22.29	12.39	7.88	1.26	0.63	24.47	10.99	2.14
4000	13.44	21.80	11.40	6.84	1.28	0.61	24.14	11.35	2.26
4500	12.47	21.16	11.04	6.42	1.28	0.60	23.04	11.22	2.30
5000	11.71	20.43	11.52	6.56	1.30	0.61	20.84	10.10	2.39
5500	11.13	19.56	12.75	7.37	1.31	0.64	19.04	9.07	2.51
6000	10.59	18.70	13.98	8.50	1.32	0.68	18.46	8.49	2.73

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 = 34mA @ Temperature = +85°C

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	22.31	26.02	19.81	15.34	1.07	0.55	23.02	11.77	2.80
20	22.58	26.15	24.29	17.45	1.07	0.55	23.45	11.57	2.62
30	22.66	25.88	26.94	18.43	1.06	0.51	23.92	11.79	2.61
40	22.70	25.80	29.38	19.04	1.05	0.50	22.99	11.48	2.65
50	22.72	25.21	31.20	19.14	1.03	0.43	21.66	11.10	2.64
60	22.74	25.75	32.97	19.64	1.05	0.49	23.10	11.42	2.61
70	22.76	25.76	34.82	19.86	1.05	0.49	23.39	11.61	2.59
80	22.76	25.79	37.12	19.98	1.05	0.49	23.16	11.43	2.63
90	22.76	25.65	39.47	20.02	1.05	0.48	23.33	11.58	2.63
100	22.77	25.73	41.49	20.10	1.05	0.49	23.82	11.81	2.60
200	22.68	25.65	35.79	20.19	1.05	0.49	23.53	11.57	2.65
250	22.61	25.75	32.50	20.22	1.06	0.51	23.18	11.46	2.71
300	22.55	25.64	30.26	20.53	1.06	0.50	23.16	11.56	2.74
350	22.46	25.56	28.34	20.71	1.06	0.50	23.62	11.67	2.76
400	22.38	25.56	26.96	20.99	1.06	0.51	23.25	11.45	2.81
450	22.29	25.45	25.74	21.35	1.06	0.51	23.36	11.25	2.81
500	22.19	25.44	24.64	21.54	1.06	0.52	23.01	11.25	2.78
550	22.09	25.40	23.73	21.82	1.06	0.53	23.77	11.75	2.78
600	21.99	25.31	22.85	22.23	1.06	0.54	23.39	11.42	2.81
650	21.88	25.33	22.18	22.69	1.07	0.55	23.20	11.41	2.79
700	21.78	25.22	21.51	23.24	1.07	0.55	23.19	11.41	2.77
750	21.66	25.13	20.88	23.90	1.07	0.56	22.98	11.18	2.74
800	21.56	25.06	20.38	24.78	1.07	0.56	23.20	11.29	2.68
850	21.44	25.04	19.84	25.76	1.08	0.57	23.17	11.23	2.66
900	21.33	24.96	19.36	27.02	1.08	0.58	23.25	11.46	2.69
950	21.21	24.89	18.99	28.42	1.08	0.58	22.36	10.62	2.69
1000	21.09	24.82	18.59	30.23	1.08	0.59	22.84	10.80	2.66
1050	20.97	24.77	18.28	32.40	1.08	0.60	22.58	10.82	2.68
1100	20.85	24.68	17.88	35.42	1.09	0.60	22.83	11.18	2.70
1150	20.72	24.61	17.59	41.03	1.09	0.61	23.26	11.19	2.68
1200	20.59	24.57	17.30	52.89	1.09	0.62	22.52	10.84	2.74
1250	20.47	24.52	17.07	42.83	1.10	0.62	23.04	10.99	2.71
1300	20.33	24.45	16.83	36.52	1.10	0.63	22.86	10.98	2.67
1350	20.21	24.37	16.62	32.38	1.10	0.63	23.03	10.97	2.73
1400	20.07	24.30	16.40	29.75	1.10	0.64	22.57	10.64	2.73
1450	19.93	24.26	16.25	27.70	1.11	0.65	22.72	10.63	2.69
1500	19.80	24.16	16.05	25.94	1.11	0.65	22.00	10.47	2.74
1550	19.66	24.18	15.87	24.44	1.12	0.66	22.84	10.66	2.74
1600	19.52	24.05	15.74	23.20	1.12	0.66	22.64	10.55	2.78
1650	19.38	24.01	15.56	22.09	1.13	0.67	22.62	10.69	2.75
1700	19.24	23.96	15.46	21.12	1.13	0.67	22.37	10.39	2.75
1750	19.09	23.88	15.35	20.22	1.14	0.67	22.32	10.47	2.76
1800	18.95	23.83	15.21	19.39	1.14	0.68	22.66	10.78	2.75
1850	18.81	23.80	15.12	18.63	1.15	0.68	22.90	10.61	2.79
1900	18.66	23.78	15.04	17.92	1.15	0.69	22.89	10.55	2.78
1950	18.52	23.66	14.96	17.29	1.16	0.68	22.42	10.36	2.79
2000	18.37	23.62	14.84	16.70	1.16	0.69	22.63	10.47	2.78
3000	15.41	22.77	12.92	9.82	1.28	0.70	22.82	10.77	2.97
3500	14.04	22.32	11.77	8.18	1.32	0.68	23.26	10.89	3.15
4000	12.84	21.86	11.01	7.30	1.36	0.67	22.18	10.31	3.27
4500	11.84	21.26	10.75	6.98	1.38	0.67	20.16	9.31	3.40
5000	11.03	20.56	11.13	7.18	1.40	0.68	17.98	7.99	3.56
5500	10.39	19.72	12.20	8.01	1.43	0.71	16.54	7.35	3.75
6000	9.74	18.97	13.35	9.34	1.46	0.76	16.00	6.72	3.97

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 = 29mA @ Temperature = +85°C

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	21.75	25.74	17.79	17.09	1.08	0.60	20.21	9.92	2.82
20	22.02	25.52	20.70	20.52	1.07	0.56	21.50	9.53	2.62
30	22.10	25.39	22.04	22.20	1.06	0.54	21.71	9.80	2.62
40	22.14	25.42	22.87	23.40	1.06	0.53	21.38	9.35	2.66
50	22.16	24.91	23.85	23.61	1.04	0.47	19.68	8.81	2.63
60	22.19	25.26	23.75	24.87	1.06	0.51	21.08	9.34	2.58
70	22.20	25.31	24.00	25.36	1.06	0.52	20.88	9.56	2.59
80	22.21	25.24	24.35	25.75	1.05	0.51	20.77	9.39	2.59
90	22.21	25.25	24.52	25.98	1.05	0.51	20.86	9.56	2.60
100	22.22	25.30	24.68	26.10	1.06	0.51	21.19	9.80	2.62
200	22.14	25.17	25.17	26.46	1.06	0.51	21.07	9.52	2.65
250	22.08	25.21	25.21	26.29	1.06	0.52	20.74	9.32	2.69
300	22.02	25.18	24.70	26.52	1.06	0.52	20.64	9.42	2.76
350	21.94	25.18	24.34	26.51	1.06	0.53	21.06	9.56	2.77
400	21.86	25.05	23.81	26.90	1.06	0.52	20.86	9.42	2.80
450	21.78	25.06	23.14	27.33	1.07	0.54	20.67	9.14	2.79
500	21.69	24.98	22.76	27.50	1.07	0.54	20.38	9.14	2.78
550	21.60	24.94	22.33	27.72	1.07	0.54	21.22	9.81	2.78
600	21.50	24.89	21.81	28.14	1.07	0.55	20.86	9.33	2.80
650	21.40	24.85	21.42	28.50	1.07	0.55	20.65	9.33	2.80
700	21.30	24.78	20.96	29.26	1.07	0.56	20.68	9.33	2.77
750	21.20	24.80	20.50	30.18	1.08	0.57	20.39	9.09	2.75
800	21.10	24.74	20.03	31.13	1.08	0.58	20.58	9.12	2.71
850	20.99	24.66	19.59	32.12	1.08	0.58	20.58	9.26	2.64
900	20.89	24.62	19.14	33.11	1.08	0.59	20.65	9.52	2.67
950	20.77	24.58	18.78	33.75	1.09	0.59	19.78	8.55	2.69
1000	20.67	24.51	18.38	33.68	1.09	0.60	20.16	8.76	2.65
1050	20.55	24.43	18.14	32.88	1.09	0.60	19.95	8.78	2.68
1100	20.44	24.43	17.77	31.85	1.10	0.61	20.32	9.16	2.68
1150	20.32	24.35	17.52	30.33	1.10	0.62	20.64	9.07	2.67
1200	20.20	24.30	17.23	28.93	1.10	0.62	19.79	8.80	2.72
1250	20.08	24.24	17.00	27.54	1.10	0.63	20.47	8.87	2.69
1300	19.96	24.16	16.74	26.32	1.11	0.63	20.21	8.86	2.68
1350	19.84	24.14	16.53	25.00	1.11	0.64	20.39	8.95	2.71
1400	19.70	24.08	16.31	23.94	1.12	0.64	19.81	8.61	2.68
1450	19.57	24.06	16.14	23.00	1.12	0.65	20.01	8.61	2.69
1500	19.45	23.96	15.92	22.07	1.12	0.65	19.30	8.35	2.67
1550	19.32	23.93	15.74	21.19	1.13	0.66	20.15	8.55	2.73
1600	19.18	23.84	15.60	20.43	1.13	0.66	19.83	8.45	2.76
1650	19.05	23.84	15.41	19.68	1.14	0.67	20.01	8.60	2.74
1700	18.91	23.76	15.30	19.02	1.14	0.67	19.60	8.30	2.72
1750	18.77	23.70	15.16	18.38	1.15	0.67	19.65	8.36	2.74
1800	18.64	23.68	15.00	17.77	1.15	0.68	20.00	8.71	2.72
1850	18.50	23.62	14.89	17.19	1.16	0.68	20.34	8.53	2.81
1900	18.36	23.54	14.78	16.64	1.16	0.68	20.17	8.47	2.78
1950	18.22	23.58	14.66	16.13	1.17	0.69	19.54	8.28	2.76
2000	18.08	23.46	14.56	15.66	1.17	0.69	19.88	8.40	2.76
3000	15.21	22.71	12.36	9.63	1.29	0.70	20.31	8.93	3.00
3500	13.88	22.32	11.24	8.10	1.33	0.68	21.51	9.42	3.12
4000	12.71	21.85	10.55	7.27	1.36	0.67	21.27	9.54	3.25
4500	11.74	21.26	10.35	7.00	1.39	0.67	19.79	9.00	3.37
5000	10.95	20.55	10.76	7.23	1.41	0.69	17.72	7.86	3.52
5500	10.32	19.77	11.82	8.10	1.44	0.72	16.31	7.14	3.71
6000	9.68	19.04	12.99	9.45	1.48	0.76	15.80	6.53	3.95

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 = 40mA @ Temperature = +85°C

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			
10	22.66	26.75	19.90	13.81	1.08	0.57	25.06	12.78	2.79
20	22.94	26.35	24.36	15.69	1.06	0.51	25.51	12.72	2.64
30	23.02	26.13	26.41	16.35	1.05	0.48	25.65	12.89	2.63
40	23.07	26.19	28.06	16.80	1.05	0.49	24.93	12.72	2.66
50	23.08	26.81	31.55	16.79	1.08	0.55	23.76	12.62	2.66
60	23.10	26.17	29.89	17.19	1.05	0.48	25.09	12.73	2.61
70	23.12	26.12	30.06	17.29	1.05	0.48	25.32	12.87	2.62
80	23.12	26.04	30.40	17.38	1.05	0.47	25.21	12.81	2.64
90	23.12	26.13	30.49	17.36	1.05	0.48	25.40	12.91	2.67
100	23.12	26.09	30.60	17.42	1.05	0.47	25.81	12.93	2.63
200	23.03	26.03	28.31	17.52	1.05	0.48	25.66	12.94	2.68
250	22.96	25.93	27.21	17.63	1.05	0.47	25.27	12.84	2.73
300	22.89	25.93	26.48	17.88	1.05	0.49	25.19	12.85	2.78
350	22.80	25.85	25.63	18.06	1.05	0.49	25.56	12.91	2.80
400	22.71	25.85	24.79	18.32	1.06	0.50	25.43	12.81	2.85
450	22.61	25.79	23.96	18.59	1.06	0.51	25.27	12.72	2.83
500	22.51	25.75	23.11	18.79	1.06	0.51	24.88	12.63	2.84
550	22.41	25.69	22.37	19.10	1.06	0.52	25.73	12.94	2.81
600	22.30	25.61	21.67	19.44	1.06	0.53	25.37	12.76	2.83
650	22.19	25.54	21.11	19.84	1.06	0.53	25.30	12.74	2.82
700	22.08	25.46	20.54	20.28	1.06	0.54	25.14	12.64	2.80
750	21.96	25.41	20.05	20.81	1.07	0.55	24.93	12.66	2.77
800	21.85	25.38	19.60	21.51	1.07	0.56	25.20	12.64	2.75
850	21.72	25.26	19.17	22.20	1.07	0.57	25.19	12.58	2.69
900	21.61	25.20	18.78	23.11	1.07	0.57	25.20	12.75	2.70
950	21.48	25.11	18.44	24.07	1.07	0.58	24.33	12.23	2.68
1000	21.36	25.06	18.05	25.15	1.07	0.59	24.77	12.37	2.68
1050	21.24	24.98	17.80	26.48	1.08	0.60	24.53	12.29	2.69
1100	21.11	24.90	17.44	27.98	1.08	0.60	24.71	12.50	2.72
1150	20.98	24.82	17.20	29.91	1.08	0.61	25.04	12.50	2.72
1200	20.85	24.74	16.95	32.24	1.08	0.61	24.39	12.30	2.73
1250	20.71	24.67	16.73	35.40	1.09	0.62	24.84	12.41	2.73
1300	20.58	24.61	16.52	38.69	1.09	0.63	24.76	12.44	2.74
1350	20.44	24.55	16.33	38.50	1.09	0.64	24.79	12.41	2.75
1400	20.30	24.45	16.14	35.09	1.10	0.64	24.41	12.21	2.73
1450	20.16	24.39	16.00	31.81	1.10	0.65	24.64	12.20	2.75
1500	20.02	24.32	15.82	29.14	1.10	0.65	23.94	12.05	2.74
1550	19.88	24.26	15.67	27.03	1.11	0.66	24.62	12.21	2.77
1600	19.73	24.16	15.56	25.30	1.11	0.66	24.51	12.10	2.79
1650	19.59	24.13	15.42	23.85	1.12	0.67	24.46	12.23	2.79
1700	19.44	24.04	15.36	22.61	1.12	0.67	24.19	11.96	2.76
1750	19.30	24.04	15.25	21.49	1.13	0.68	24.35	12.03	2.78
1800	19.15	23.95	15.15	20.50	1.13	0.68	24.44	12.22	2.77
1850	19.00	23.83	15.08	19.63	1.13	0.68	24.75	12.16	2.84
1900	18.85	23.84	15.02	18.80	1.14	0.69	24.76	12.10	2.79
1950	18.70	23.74	14.96	18.05	1.15	0.69	24.24	11.91	2.85
2000	18.55	23.69	14.89	17.38	1.15	0.69	24.47	12.02	2.81
3000	15.53	22.76	13.27	9.95	1.27	0.69	24.19	12.06	3.00
3500	14.14	22.36	12.11	8.24	1.32	0.68	24.00	11.70	3.19
4000	12.91	21.85	11.33	7.32	1.35	0.66	22.46	10.69	3.34
4500	11.90	21.25	11.03	6.97	1.38	0.66	20.41	9.52	3.46
5000	11.08	20.53	11.38	7.14	1.40	0.67	18.29	8.16	3.65
5500	10.43	19.71	12.43	7.97	1.42	0.71	16.79	7.41	3.79
6000	9.76	18.96	13.56	9.28	1.46	0.75	16.27	6.76	4.08