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 = 56.04mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
50.0	25.37	29.21	7.58	15.33	0.95	0.72	33.03	19.95	0.86
60.0	25.30	28.91	8.30	17.75	0.96	0.69	32.22	19.79	0.70
70.0	25.19	28.95	8.49	18.31	0.98	0.70	32.83	19.72	0.69
80.0	25.10	28.91	8.80	18.98	0.99	0.70	32.86	19.80	0.64
90.0	25.04	28.86	9.05	19.69	1.00	0.69	32.18	19.72	0.60
100.0	24.98	28.83	9.19	20.11	1.00	0.69	32.37	19.70	0.62
150.0	24.76	28.74	9.58	21.20	1.02	0.69	32.18	19.78	0.60
200.0	24.54	28.67	9.71	21.54	1.03	0.71	32.43	19.71	0.60
300.0	23.97	28.51	9.76	20.96	1.04	0.75	33.82	19.91	0.59
350.0	23.66	28.37	9.65	20.57	1.04	0.77	32.99	19.88	0.66
400.0	23.32	28.25	9.57	20.31	1.05	0.79	33.49	20.02	0.66
450.0	22.97	28.09	9.50	20.03	1.05	0.82	34.61	20.05	0.64
500.0	22.61	27.93	9.47	19.72	1.06	0.83	33.50	20.11	0.71
550.0	22.22	27.78	9.44	19.34	1.06	0.85	34.46	20.15	0.67
600.0	21.86	27.57	9.33	18.95	1.07	0.87	33.79	20.25	0.70
650.0	21.51	27.39	9.30	18.73	1.07	0.88	34.51	20.30	0.75
700.0	21.15	27.19	9.29	18.53	1.08	0.89	34.49	20.31	0.83
750.0	20.78	27.01	9.32	18.28	1.09	0.90	35.24	20.36	0.78
800.0	20.42	26.83	9.36	17.88	1.11	0.91	34.16	20.44	0.76
850.0	20.07	26.60	9.27	17.48	1.11	0.92	34.36	20.47	0.79
900.0	19.74	26.35	9.23	17.19	1.12	0.92	34.91	20.54	0.77
950.0	19.41	26.11	9.20	16.96	1.12	0.92	34.70	20.65	0.75
1000.0	19.09	25.89	9.19	16.69	1.13	0.92	33.77	20.60	0.81
1200.0	17.88	25.01	9.25	15.79	1.18	0.91	34.84	20.79	0.83
1400.0	16.79	24.18	9.38	14.97	1.22	0.89	34.52	20.87	0.88
1600.0	15.83	23.36	9.47	14.32	1.26	0.87	34.34	20.98	0.93
1800.0	14.97	22.58	9.59	13.81	1.29	0.85	35.24	21.22	0.94
2000.0	14.20	21.86	9.71	13.48	1.30	0.83	35.89	21.24	0.91
2200.0	13.51	21.15	9.85	13.43	1.31	0.82	35.73	21.60	0.94
2400.0	12.88	20.46	10.09	13.59	1.30	0.83	35.64	21.60	0.97
2600.0	12.30	19.80	10.30	13.89	1.28	0.84	36.22	21.37	1.05
2800.0	11.78	19.19	10.56	14.28	1.26	0.85	36.89	21.48	1.14
3000.0	11.28	18.61	10.79	14.66	1.23	0.87	36.84	21.46	1.11
3200.0	10.81	18.08	11.03	14.96	1.21	0.89	36.12	21.10	1.28
3400.0	10.36	17.59	11.17	14.97	1.20	0.89	36.39	21.75	1.31
3600.0	9.91	17.16	11.29	14.65	1.20	0.89	36.68	21.65	1.21
3800.0	9.47	16.77	11.19	14.17	1.21	0.88	35.97	21.51	1.33
4000.0	9.04	16.42	11.07	13.73	1.23	0.86	36.33	21.40	1.25

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 = 53.31mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
50.0	25.25	29.28	7.66	15.18	0.96	0.73	32.01	19.81	0.90
60.0	25.20	28.87	8.24	17.54	0.96	0.70	31.89	19.63	0.72
70.0	25.09	28.87	8.45	18.08	0.98	0.70	32.36	19.60	0.67
80.0	25.00	28.81	8.76	18.72	0.99	0.70	32.31	19.69	0.70
90.0	24.94	28.77	8.99	19.42	1.00	0.69	31.58	19.58	0.61
100.0	24.88	28.76	9.15	19.82	1.00	0.69	32.19	19.59	0.62
150.0	24.67	28.65	9.58	20.86	1.02	0.69	31.57	19.65	0.70
200.0	24.45	28.59	9.65	21.21	1.03	0.71	32.30	19.62	0.61
300.0	23.88	28.42	9.64	20.73	1.04	0.75	32.86	19.81	0.58
350.0	23.58	28.30	9.53	20.37	1.04	0.77	32.53	19.75	0.67
400.0	23.24	28.15	9.49	20.16	1.04	0.80	33.47	19.93	0.67
450.0	22.89	28.00	9.46	19.91	1.05	0.82	33.82	19.99	0.64
500.0	22.53	27.83	9.40	19.64	1.05	0.84	33.27	20.08	0.69
550.0	22.15	27.68	9.38	19.29	1.06	0.85	33.93	20.18	0.67
600.0	21.79	27.48	9.28	18.91	1.06	0.87	33.35	20.25	0.68
650.0	21.44	27.28	9.24	18.71	1.07	0.88	34.22	20.32	0.73
700.0	21.08	27.09	9.24	18.53	1.08	0.89	34.17	20.35	0.76
750.0	20.72	26.92	9.27	18.30	1.09	0.90	34.71	20.43	0.77
800.0	20.36	26.73	9.31	17.92	1.10	0.91	34.24	20.51	0.75
850.0	20.01	26.50	9.23	17.52	1.11	0.92	34.49	20.48	0.79
900.0	19.68	26.25	9.18	17.24	1.11	0.92	34.56	20.59	0.75
950.0	19.36	26.03	9.15	17.02	1.12	0.92	34.34	20.70	0.71
1000.0	19.04	25.80	9.14	16.76	1.13	0.92	33.47	20.60	0.77
1200.0	17.83	24.93	9.20	15.87	1.18	0.91	34.12	20.87	0.78
1400.0	16.75	24.11	9.33	15.07	1.22	0.89	34.44	20.95	0.91
1600.0	15.79	23.30	9.42	14.42	1.26	0.87	34.17	21.03	0.93
1800.0	14.93	22.52	9.52	13.92	1.28	0.85	34.79	21.31	0.94
2000.0	14.17	21.80	9.66	13.60	1.30	0.83	35.92	21.34	0.90
2200.0	13.48	21.09	9.80	13.56	1.30	0.83	35.41	21.71	0.95
2400.0	12.84	20.41	10.04	13.73	1.30	0.83	35.05	21.71	0.95
2600.0	12.27	19.75	10.25	14.02	1.28	0.84	35.93	21.46	1.04
2800.0	11.75	19.15	10.50	14.43	1.26	0.85	36.10	21.58	1.18
3000.0	11.25	18.56	10.72	14.81	1.23	0.87	36.22	21.54	1.19
3200.0	10.79	18.04	10.95	15.14	1.21	0.89	35.84	21.15	1.15
3400.0	10.33	17.55	11.10	15.15	1.20	0.90	35.94	21.90	1.06
3600.0	9.89	17.12	11.21	14.82	1.20	0.89	36.35	21.79	1.07
3800.0	9.45	16.72	11.14	14.33	1.21	0.88	35.96	21.74	1.08
4000.0	9.01	16.37	11.01	13.88	1.23	0.86	35.36	21.62	1.05

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 = 59.30mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
50.0	25.43	29.02	7.55	15.31	0.94	0.70	32.71	19.94	0.93
60.0	25.38	29.15	7.88	17.76	0.96	0.73	32.79	19.78	0.68
70.0	25.26	29.03	8.51	18.39	0.98	0.70	33.01	19.64	0.71
80.0	25.17	28.98	8.84	19.06	0.99	0.70	33.05	19.70	0.64
90.0	25.11	28.92	9.04	19.78	1.00	0.69	32.61	19.64	0.62
100.0	25.06	28.90	9.20	20.20	1.00	0.69	32.61	19.61	0.63
150.0	24.84	28.84	9.59	21.27	1.02	0.70	32.08	19.72	0.61
200.0	24.61	28.76	9.72	21.57	1.03	0.71	32.52	19.60	0.59
300.0	24.03	28.59	9.78	20.94	1.04	0.75	33.55	19.79	0.64
350.0	23.72	28.46	9.65	20.50	1.04	0.77	32.93	19.78	0.67
400.0	23.37	28.34	9.56	20.24	1.05	0.80	33.65	19.90	0.67
450.0	23.02	28.19	9.49	19.94	1.05	0.82	34.42	19.89	0.64
500.0	22.66	28.02	9.47	19.62	1.06	0.84	33.91	19.95	0.69
550.0	22.27	27.86	9.44	19.22	1.07	0.86	34.68	19.92	0.65
600.0	21.91	27.66	9.33	18.82	1.07	0.87	34.12	20.08	0.72
650.0	21.55	27.47	9.32	18.60	1.07	0.88	34.44	20.13	0.73
700.0	21.19	27.27	9.30	18.39	1.08	0.90	34.60	20.10	0.78
750.0	20.82	27.09	9.33	18.14	1.10	0.90	35.18	20.12	0.85
800.0	20.46	26.91	9.37	17.74	1.11	0.91	34.84	20.21	0.82
850.0	20.11	26.67	9.28	17.33	1.11	0.92	34.55	20.27	0.78
900.0	19.78	26.42	9.23	17.05	1.12	0.92	35.23	20.32	0.75
950.0	19.44	26.19	9.21	16.82	1.13	0.92	35.23	20.45	0.72
1000.0	19.13	25.96	9.20	16.55	1.14	0.92	33.92	20.42	0.81
1200.0	17.91	25.08	9.26	15.65	1.18	0.91	34.56	20.58	0.84
1400.0	16.82	24.24	9.40	14.83	1.23	0.89	34.58	20.64	0.89
1600.0	15.85	23.42	9.49	14.18	1.26	0.87	34.78	20.79	0.99
1800.0	14.99	22.64	9.61	13.67	1.29	0.85	35.59	20.98	0.93
2000.0	14.22	21.92	9.74	13.35	1.31	0.83	36.19	20.95	0.88
2200.0	13.53	21.20	9.89	13.30	1.31	0.82	35.79	21.31	0.93
2400.0	12.89	20.51	10.13	13.46	1.31	0.82	35.60	21.31	1.01
2600.0	12.32	19.85	10.34	13.74	1.29	0.83	36.77	21.05	1.07
2800.0	11.79	19.24	10.60	14.12	1.26	0.85	35.71	21.17	1.18
3000.0	11.30	18.66	10.83	14.48	1.24	0.87	36.79	21.12	1.12
3200.0	10.83	18.13	11.05	14.78	1.21	0.89	36.76	21.03	1.27
3400.0	10.37	17.64	11.22	14.79	1.20	0.89	36.28	21.37	1.23
3600.0	9.92	17.21	11.32	14.47	1.20	0.89	36.94	21.28	1.14
3800.0	9.48	16.82	11.25	14.00	1.21	0.88	36.38	21.07	1.13
4000.0	9.05	16.46	11.11	13.57	1.23	0.86	36.44	20.99	1.16

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 = 64.19mA @ Temperature = -45°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
50.0	25.39	28.44	7.72	16.24	0.89	0.69	34.50	19.54	0.87
60.0	25.24	28.59	8.87	18.61	0.94	0.70	33.33	19.39	0.65
70.0	25.09	28.47	9.64	19.83	0.97	0.67	34.17	19.63	0.67
80.0	24.98	28.39	10.11	21.19	0.98	0.66	33.78	19.80	0.57
90.0	24.91	28.37	10.48	22.50	0.99	0.66	33.29	19.65	0.48
100.0	24.84	28.33	10.74	23.68	1.00	0.65	33.91	19.69	0.51
150.0	24.62	28.23	11.59	29.94	1.03	0.64	33.33	19.73	0.53
200.0	24.42	28.16	11.84	40.96	1.04	0.64	33.46	19.85	0.50
300.0	23.90	28.04	11.78	37.60	1.06	0.68	34.91	20.16	0.41
350.0	23.63	27.97	11.59	34.43	1.07	0.70	34.63	20.04	0.56
400.0	23.33	27.84	11.49	31.88	1.08	0.72	34.86	20.25	0.56
450.0	23.02	27.73	11.37	30.42	1.09	0.74	35.71	20.46	0.52
500.0	22.69	27.60	11.17	28.99	1.09	0.76	34.85	20.51	0.55
550.0	22.32	27.48	11.02	27.31	1.10	0.78	35.61	20.78	0.52
600.0	21.99	27.31	10.75	25.70	1.10	0.80	34.97	20.68	0.56
650.0	21.67	27.14	10.58	24.56	1.10	0.82	35.97	20.87	0.60
700.0	21.33	26.96	10.46	23.58	1.11	0.83	36.21	20.94	0.64
750.0	20.99	26.79	10.41	22.72	1.12	0.84	36.90	21.09	0.66
800.0	20.63	26.64	10.42	21.78	1.13	0.86	36.22	21.20	0.70
850.0	20.28	26.43	10.25	20.84	1.13	0.87	36.22	21.12	0.68
900.0	19.98	26.18	10.08	20.33	1.13	0.88	36.35	21.26	0.62
950.0	19.68	25.94	10.00	19.96	1.13	0.88	36.23	21.43	0.58
1000.0	19.39	25.70	10.00	19.57	1.13	0.88	35.18	21.33	0.65
1200.0	18.23	24.81	9.98	18.26	1.16	0.88	35.92	21.76	0.67
1400.0	17.17	23.98	10.13	16.90	1.20	0.86	36.27	21.95	0.70
1600.0	16.22	23.15	10.10	15.92	1.22	0.85	35.68	22.22	0.76
1800.0	15.37	22.36	10.13	15.21	1.24	0.83	36.00	22.45	0.73
2000.0	14.61	21.63	10.25	14.54	1.26	0.81	37.95	22.42	0.69
2200.0	13.92	20.92	10.37	14.32	1.26	0.80	37.65	22.73	0.75
2400.0	13.28	20.23	10.61	14.25	1.26	0.80	36.98	22.90	0.75
2600.0	12.72	19.56	10.70	14.52	1.24	0.80	39.13	22.45	0.80
2800.0	12.21	18.93	10.99	15.03	1.22	0.81	39.04	22.53	0.94
3000.0	11.74	18.32	11.28	15.78	1.19	0.83	39.41	22.29	0.86
3200.0	11.28	17.78	11.79	15.70	1.17	0.84	39.35	21.84	1.02
3400.0	10.83	17.29	11.93	15.70	1.16	0.85	39.42	23.11	0.96
3600.0	10.38	16.86	11.86	15.40	1.15	0.85	39.53	22.75	0.88
3800.0	9.93	16.47	11.65	15.10	1.16	0.84	38.85	22.92	0.96
4000.0	9.45	16.18	11.20	14.41	1.19	0.83	39.26	22.41	0.90

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 = 55.49mA @ Temperature = -45°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
50.0	25.30	28.44	7.60	16.16	0.89	0.71	33.34	19.12	0.77
60.0	25.13	28.60	9.06	18.57	0.95	0.70	33.04	18.96	0.61
70.0	24.99	28.36	9.57	19.70	0.96	0.67	33.66	19.24	0.64
80.0	24.88	28.31	10.04	21.03	0.98	0.66	33.00	19.43	0.60
90.0	24.80	28.26	10.35	22.33	0.99	0.66	32.85	19.26	0.50
100.0	24.74	28.23	10.64	23.46	1.00	0.65	33.46	19.28	0.49
150.0	24.52	28.11	11.43	29.27	1.03	0.64	32.59	19.34	0.53
200.0	24.32	28.06	11.75	38.48	1.04	0.65	33.25	19.46	0.49
300.0	23.81	27.94	11.71	37.47	1.06	0.68	34.10	19.87	0.45
350.0	23.54	27.85	11.55	33.97	1.07	0.70	33.63	19.73	0.54
400.0	23.24	27.76	11.44	31.51	1.08	0.72	34.63	19.93	0.54
450.0	22.94	27.63	11.31	30.11	1.08	0.74	35.42	20.19	0.46
500.0	22.61	27.51	11.12	28.79	1.09	0.76	34.58	20.28	0.52
550.0	22.25	27.39	10.97	27.18	1.10	0.78	35.44	20.63	0.48
600.0	21.92	27.22	10.71	25.61	1.10	0.80	34.79	20.50	0.57
650.0	21.59	27.05	10.51	24.50	1.10	0.82	35.63	20.69	0.60
700.0	21.26	26.88	10.40	23.55	1.11	0.83	35.81	20.77	0.63
750.0	20.93	26.71	10.36	22.71	1.11	0.84	36.01	20.98	0.65
800.0	20.57	26.56	10.38	21.79	1.13	0.86	35.95	21.09	0.65
850.0	20.22	26.36	10.20	20.85	1.13	0.87	35.36	20.99	0.64
900.0	19.92	26.11	10.04	20.34	1.13	0.88	36.24	21.13	0.60
950.0	19.62	25.87	9.95	19.97	1.13	0.88	35.84	21.32	0.58
1000.0	19.33	25.64	9.95	19.59	1.13	0.88	34.80	21.22	0.62
1200.0	18.18	24.77	9.92	18.29	1.16	0.88	35.26	21.66	0.67
1400.0	17.12	23.94	10.08	16.94	1.20	0.87	35.76	21.86	0.69
1600.0	16.17	23.11	10.04	15.96	1.22	0.85	35.62	22.15	0.79
1800.0	15.33	22.33	10.07	15.26	1.24	0.83	36.00	22.30	0.75
2000.0	14.57	21.61	10.19	14.59	1.26	0.81	38.04	22.29	0.69
2200.0	13.88	20.90	10.31	14.37	1.26	0.80	37.06	22.59	0.72
2400.0	13.25	20.21	10.54	14.31	1.26	0.80	36.59	22.76	0.74
2600.0	12.68	19.54	10.63	14.59	1.24	0.80	37.83	22.31	0.77
2800.0	12.17	18.92	10.92	15.11	1.22	0.82	37.82	22.40	0.90
3000.0	11.71	18.30	11.20	15.86	1.19	0.83	38.71	22.15	0.84
3200.0	11.25	17.77	11.70	15.81	1.17	0.84	38.21	21.77	0.91
3400.0	10.79	17.28	11.84	15.82	1.16	0.85	38.19	22.99	0.77
3600.0	10.35	16.85	11.78	15.51	1.15	0.85	39.98	22.64	0.91
3800.0	9.90	16.46	11.58	15.20	1.17	0.84	38.64	22.87	0.77
4000.0	9.42	16.17	11.14	14.51	1.19	0.83	39.07	22.38	0.82

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 = 61.98mA @ Temperature = -45°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
50.0	25.47	29.01	8.42	16.41	0.92	0.72	34.25	20.08	0.87
60.0	25.31	28.73	8.94	18.71	0.94	0.70	34.42	19.93	0.66
70.0	25.16	28.51	9.77	19.88	0.97	0.67	35.03	20.10	0.67
80.0	25.05	28.43	10.26	21.29	0.98	0.65	33.85	20.23	0.65
90.0	24.98	28.40	10.61	22.62	0.99	0.65	33.94	20.12	0.51
100.0	24.91	28.37	10.92	23.85	1.00	0.65	34.26	20.13	0.50
150.0	24.69	28.26	11.79	30.64	1.03	0.63	33.55	20.18	0.60
200.0	24.48	28.21	11.99	42.45	1.04	0.64	34.50	20.23	0.49
300.0	23.96	28.10	11.87	37.04	1.07	0.68	35.72	20.49	0.43
350.0	23.68	28.03	11.71	35.41	1.07	0.70	35.18	20.40	0.55
400.0	23.38	27.91	11.64	32.72	1.08	0.71	35.43	20.58	0.55
450.0	23.07	27.78	11.47	31.03	1.09	0.73	36.62	20.68	0.48
500.0	22.73	27.67	11.28	29.40	1.10	0.76	35.36	20.76	0.52
550.0	22.37	27.55	11.11	27.64	1.11	0.78	36.98	20.86	0.49
600.0	22.03	27.38	10.85	26.02	1.11	0.80	35.86	20.92	0.56
650.0	21.71	27.20	10.65	24.83	1.11	0.82	36.41	21.01	0.59
700.0	21.37	27.02	10.53	23.78	1.11	0.83	36.79	21.02	0.62
750.0	21.03	26.85	10.49	22.87	1.12	0.84	37.52	21.12	0.62
800.0	20.67	26.70	10.50	21.89	1.13	0.86	36.48	21.21	0.61
850.0	20.32	26.49	10.32	20.93	1.13	0.87	37.04	21.22	0.66
900.0	20.02	26.23	10.15	20.40	1.13	0.88	37.70	21.30	0.59
950.0	19.71	25.99	10.06	20.01	1.13	0.88	36.59	21.49	0.60
1000.0	19.42	25.75	10.06	19.62	1.14	0.88	35.68	21.43	0.61
1200.0	18.26	24.86	10.04	18.27	1.17	0.88	36.81	21.75	0.68
1400.0	17.19	24.02	10.18	16.89	1.20	0.86	37.20	21.94	0.74
1600.0	16.25	23.19	10.16	15.88	1.23	0.85	36.60	22.20	0.77
1800.0	15.40	22.39	10.19	15.17	1.24	0.83	36.55	22.42	0.74
2000.0	14.63	21.67	10.32	14.49	1.26	0.81	37.48	22.39	0.70
2200.0	13.94	20.95	10.45	14.26	1.26	0.80	38.43	22.70	0.73
2400.0	13.30	20.25	10.67	14.19	1.26	0.79	37.89	22.85	0.73
2600.0	12.74	19.58	10.79	14.45	1.24	0.80	38.46	22.45	0.85
2800.0	12.22	18.96	11.07	14.95	1.22	0.81	39.01	22.53	0.93
3000.0	11.76	18.34	11.35	15.68	1.19	0.83	39.77	22.29	0.88
3200.0	11.30	17.80	11.85	15.62	1.17	0.84	39.96	21.77	0.94
3400.0	10.84	17.31	11.98	15.62	1.16	0.85	39.08	23.09	0.85
3600.0	10.39	16.88	11.92	15.31	1.15	0.85	39.71	22.72	0.80
3800.0	9.94	16.49	11.71	15.00	1.17	0.84	39.22	22.75	0.84
4000.0	9.46	16.20	11.27	14.32	1.19	0.83	40.34	22.27	0.87

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 = 55.58mA @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
50.0	25.20	29.99	6.20	13.23	0.96	0.80	31.94	18.39	1.14
60.0	25.21	29.47	6.96	14.94	0.97	0.74	31.61	18.22	0.85
70.0	25.11	29.36	7.39	15.19	0.99	0.73	31.45	18.09	0.87
80.0	25.04	29.30	7.59	15.51	1.00	0.72	31.05	18.15	0.79
90.0	25.00	29.27	7.73	15.92	1.00	0.73	31.08	18.10	0.76
100.0	24.95	29.23	7.90	16.14	1.00	0.72	30.98	18.09	0.76
150.0	24.73	29.12	8.19	16.67	1.01	0.74	30.82	18.22	0.75
200.0	24.48	29.05	8.16	16.59	1.01	0.76	31.39	18.13	0.70
300.0	23.86	28.78	8.21	15.95	1.01	0.81	31.89	18.29	0.70
350.0	23.54	28.60	8.25	15.91	1.00	0.83	31.73	18.29	0.79
400.0	23.17	28.43	8.20	16.02	1.00	0.86	32.18	18.41	0.79
450.0	22.79	28.25	8.18	16.05	1.00	0.88	32.61	18.41	0.79
500.0	22.40	28.06	8.19	15.92	1.00	0.90	32.12	18.47	0.82
550.0	22.01	27.87	8.22	15.70	1.01	0.92	32.38	18.49	0.81
600.0	21.63	27.65	8.25	15.44	1.01	0.93	32.79	18.60	0.85
650.0	21.26	27.44	8.29	15.34	1.02	0.94	32.80	18.66	0.89
700.0	20.88	27.23	8.32	15.30	1.03	0.95	32.72	18.64	0.91
750.0	20.50	27.05	8.35	15.22	1.05	0.95	33.42	18.69	0.93
800.0	20.15	26.83	8.38	15.04	1.06	0.96	32.85	18.75	0.93
850.0	19.79	26.60	8.36	14.84	1.07	0.96	33.33	18.77	0.95
900.0	19.45	26.36	8.40	14.68	1.08	0.96	33.37	18.86	0.91
950.0	19.11	26.13	8.43	14.56	1.09	0.95	33.27	18.91	0.89
1000.0	18.78	25.91	8.45	14.44	1.11	0.95	32.51	18.87	0.93
1200.0	17.56	25.04	8.61	14.02	1.17	0.93	33.05	19.01	1.00
1400.0	16.48	24.22	8.80	13.62	1.23	0.91	33.12	19.04	1.09
1600.0	15.51	23.43	8.96	13.27	1.27	0.88	33.39	19.11	1.12
1800.0	14.64	22.67	9.09	13.04	1.31	0.86	33.50	19.27	1.14
2000.0	13.88	21.96	9.25	12.89	1.33	0.85	33.95	19.32	1.12
2200.0	13.18	21.28	9.42	12.85	1.34	0.84	34.24	19.65	1.17
2400.0	12.53	20.62	9.65	12.98	1.34	0.85	34.50	19.56	1.22
2600.0	11.94	19.98	9.85	13.24	1.32	0.86	34.28	19.48	1.32
2800.0	11.41	19.39	10.09	13.64	1.30	0.88	34.17	19.58	1.50
3000.0	10.91	18.82	10.26	13.99	1.27	0.90	34.46	19.64	1.48
3200.0	10.45	18.29	10.43	14.32	1.24	0.92	34.43	19.86	1.48
3400.0	9.99	17.80	10.59	14.38	1.23	0.93	33.89	19.58	1.49
3600.0	9.55	17.36	10.77	14.04	1.23	0.92	34.13	19.69	1.45
3800.0	9.12	16.99	10.85	13.54	1.24	0.91	33.44	19.39	1.46
4000.0	8.70	16.61	10.87	13.00	1.27	0.88	33.79	19.52	1.38

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 = 52.88mA @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
50.0	25.12	29.80	6.45	13.19	0.97	0.78	31.90	18.46	1.01
60.0	25.13	29.29	6.85	14.88	0.97	0.74	31.44	18.31	0.87
70.0	25.03	29.27	7.32	15.11	0.98	0.73	31.57	18.22	0.82
80.0	24.96	29.22	7.54	15.44	0.99	0.73	31.16	18.29	0.84
90.0	24.92	29.18	7.73	15.84	1.00	0.72	31.07	18.24	0.75
100.0	24.87	29.14	7.88	16.06	1.00	0.72	31.16	18.24	0.74
150.0	24.65	29.04	8.18	16.59	1.01	0.74	30.92	18.35	0.77
200.0	24.40	28.95	8.13	16.50	1.01	0.76	31.30	18.29	0.72
300.0	23.79	28.69	8.24	15.94	1.00	0.81	31.91	18.43	0.70
350.0	23.47	28.51	8.18	15.92	1.00	0.83	31.42	18.44	0.78
400.0	23.11	28.33	8.18	16.02	1.00	0.86	32.27	18.55	0.78
450.0	22.74	28.15	8.17	16.06	1.00	0.88	32.78	18.59	0.74
500.0	22.35	27.96	8.17	15.93	1.00	0.90	32.12	18.65	0.80
550.0	21.96	27.77	8.21	15.71	1.01	0.91	32.85	18.72	0.77
600.0	21.58	27.55	8.22	15.48	1.01	0.93	32.61	18.77	0.83
650.0	21.22	27.34	8.26	15.39	1.02	0.94	32.90	18.84	0.86
700.0	20.84	27.14	8.30	15.36	1.03	0.94	32.95	18.83	0.90
750.0	20.46	26.95	8.32	15.29	1.04	0.95	33.52	18.92	0.91
800.0	20.11	26.74	8.37	15.11	1.06	0.95	33.01	18.95	0.89
850.0	19.76	26.50	8.35	14.91	1.06	0.96	33.19	18.95	0.92
900.0	19.42	26.26	8.38	14.75	1.08	0.95	33.37	19.05	0.88
950.0	19.08	26.03	8.41	14.65	1.09	0.95	33.52	19.10	0.87
1000.0	18.75	25.81	8.42	14.53	1.10	0.95	32.43	19.03	0.91
1200.0	17.54	24.95	8.60	14.13	1.16	0.93	33.39	19.21	0.98
1400.0	16.46	24.13	8.78	13.73	1.22	0.91	33.41	19.24	1.05
1600.0	15.49	23.35	8.93	13.38	1.27	0.88	33.09	19.27	1.13
1800.0	14.63	22.60	9.06	13.16	1.30	0.86	33.78	19.55	1.15
2000.0	13.87	21.89	9.23	13.01	1.33	0.85	34.82	19.59	1.11
2200.0	13.17	21.21	9.38	12.98	1.33	0.84	34.41	19.91	1.14
2400.0	12.52	20.55	9.60	13.11	1.33	0.85	34.24	19.80	1.17
2600.0	11.94	19.91	9.81	13.38	1.31	0.86	35.03	19.82	1.30
2800.0	11.40	19.32	10.05	13.79	1.29	0.88	34.78	19.96	1.45
3000.0	10.91	18.75	10.23	14.15	1.26	0.90	34.71	20.05	1.43
3200.0	10.44	18.23	10.39	14.49	1.24	0.92	34.56	20.22	1.54
3400.0	9.99	17.74	10.56	14.55	1.23	0.93	34.25	19.97	1.40
3600.0	9.55	17.30	10.73	14.21	1.22	0.92	34.36	20.13	1.50
3800.0	9.12	16.93	10.81	13.71	1.24	0.91	34.06	19.87	1.48
4000.0	8.71	16.55	10.83	13.16	1.26	0.88	33.72	20.02	1.55

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 = 58.27mA @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
50.0	25.25	29.81	7.02	13.29	0.98	0.75	31.63	18.21	1.14
60.0	25.27	29.37	7.15	15.08	0.97	0.73	31.22	18.08	0.90
70.0	25.18	29.41	7.38	15.31	0.99	0.73	31.48	17.89	0.87
80.0	25.11	29.35	7.61	15.64	1.00	0.72	30.94	17.92	0.84
90.0	25.07	29.32	7.81	16.04	1.00	0.72	30.57	17.89	0.75
100.0	25.02	29.30	7.92	16.27	1.01	0.72	30.79	17.87	0.76
150.0	24.80	29.24	8.21	16.77	1.02	0.74	30.69	18.00	0.75
200.0	24.54	29.13	8.19	16.66	1.01	0.76	31.00	17.89	0.72
300.0	23.92	28.86	8.27	16.04	1.01	0.81	31.62	18.07	0.75
350.0	23.60	28.72	8.26	15.99	1.01	0.83	31.45	18.10	0.82
400.0	23.23	28.53	8.24	16.07	1.01	0.86	31.97	18.20	0.82
450.0	22.85	28.34	8.22	16.07	1.01	0.88	32.38	18.18	0.79
500.0	22.45	28.16	8.21	15.91	1.01	0.90	31.71	18.25	0.83
550.0	22.06	27.98	8.26	15.67	1.02	0.92	31.83	18.21	0.79
600.0	21.67	27.76	8.28	15.42	1.02	0.93	32.16	18.39	0.84
650.0	21.31	27.55	8.31	15.32	1.03	0.94	32.30	18.41	0.89
700.0	20.92	27.35	8.34	15.26	1.04	0.95	32.57	18.38	0.87
750.0	20.55	27.17	8.38	15.17	1.06	0.95	32.15	18.39	0.90
800.0	20.19	26.96	8.41	14.97	1.07	0.96	32.19	18.50	0.93
850.0	19.83	26.71	8.40	14.76	1.07	0.96	32.79	18.57	0.96
900.0	19.48	26.47	8.43	14.60	1.09	0.96	32.60	18.61	0.90
950.0	19.14	26.24	8.46	14.48	1.10	0.96	32.84	18.71	0.90
1000.0	18.82	26.02	8.48	14.35	1.11	0.95	32.17	18.70	0.94
1200.0	17.59	25.15	8.65	13.91	1.17	0.93	32.69	18.81	1.01
1400.0	16.51	24.32	8.84	13.50	1.23	0.91	32.83	18.86	1.07
1600.0	15.54	23.53	8.99	13.13	1.28	0.88	32.96	18.96	1.12
1800.0	14.67	22.77	9.13	12.89	1.32	0.86	33.25	19.10	1.17
2000.0	13.90	22.06	9.30	12.74	1.34	0.85	33.64	19.05	1.12
2200.0	13.20	21.38	9.45	12.70	1.35	0.84	33.83	19.37	1.18
2400.0	12.55	20.71	9.68	12.81	1.34	0.85	33.50	19.28	1.22
2600.0	11.96	20.07	9.88	13.07	1.33	0.86	33.45	19.14	1.31
2800.0	11.43	19.48	10.14	13.45	1.30	0.88	33.21	19.19	1.48
3000.0	10.93	18.90	10.31	13.79	1.27	0.90	33.38	19.30	1.42
3200.0	10.47	18.38	10.48	14.11	1.25	0.92	33.83	19.57	1.47
3400.0	10.01	17.89	10.64	14.17	1.24	0.93	32.87	19.22	1.31
3600.0	9.57	17.44	10.83	13.85	1.23	0.92	33.01	19.28	1.39
3800.0	9.14	17.07	10.91	13.36	1.25	0.91	32.67	19.00	1.46
4000.0	8.72	16.70	10.91	12.83	1.27	0.88	32.79	19.13	1.32

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 = 3.00V, Id = 33.47mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
50.0	24.21	28.83	6.21	13.86	0.93	0.82	28.50	16.17	0.89
60.0	24.17	28.27	7.11	15.75	0.95	0.76	28.09	16.03	0.65
70.0	24.05	28.20	7.57	16.16	0.97	0.75	28.34	15.96	0.71
80.0	23.96	28.13	7.84	16.61	0.98	0.74	28.04	16.09	0.63
90.0	23.90	28.06	8.05	17.09	0.99	0.74	27.75	16.03	0.58
100.0	23.85	28.04	8.17	17.36	0.99	0.74	27.82	15.99	0.61
150.0	23.65	27.89	8.56	18.12	1.00	0.74	27.48	16.18	0.60
200.0	23.45	27.75	8.65	18.48	1.00	0.75	28.03	16.11	0.62
300.0	22.93	27.44	8.71	18.65	1.00	0.79	28.69	16.36	0.65
350.0	22.65	27.25	8.67	18.58	0.99	0.80	28.24	16.33	0.67
400.0	22.33	27.05	8.61	18.66	0.99	0.82	28.81	16.52	0.67
450.0	22.02	26.84	8.57	18.70	0.99	0.84	29.37	16.56	0.66
500.0	21.67	26.63	8.58	18.74	0.99	0.85	28.67	16.69	0.67
550.0	21.32	26.45	8.57	18.74	1.00	0.86	29.16	16.81	0.65
600.0	20.98	26.22	8.50	18.61	1.00	0.87	29.08	16.86	0.70
650.0	20.65	26.00	8.47	18.64	1.01	0.88	29.35	17.05	0.76
700.0	20.31	25.79	8.49	18.71	1.02	0.89	29.37	17.05	0.76
750.0	19.96	25.60	8.54	18.78	1.04	0.89	29.81	17.15	0.85
800.0	19.61	25.42	8.58	18.64	1.05	0.90	29.44	17.33	0.84
850.0	19.28	25.20	8.50	18.36	1.06	0.90	29.63	17.35	0.80
900.0	18.96	24.95	8.47	18.21	1.07	0.90	29.86	17.41	0.76
950.0	18.65	24.73	8.46	18.14	1.08	0.90	29.71	17.57	0.75
1000.0	18.35	24.51	8.44	18.02	1.09	0.90	28.87	17.57	0.78
1200.0	17.18	23.69	8.52	17.65	1.13	0.89	29.55	17.94	0.83
1400.0	16.13	22.92	8.64	17.24	1.17	0.89	29.61	18.17	0.88
1600.0	15.21	22.15	8.71	16.86	1.20	0.88	29.60	18.68	0.93
1800.0	14.38	21.42	8.80	16.56	1.23	0.87	29.92	18.73	0.96
2000.0	13.64	20.74	8.92	16.40	1.24	0.86	30.57	18.70	0.87
2200.0	12.97	20.06	9.03	16.57	1.24	0.86	30.72	19.05	0.91
2400.0	12.34	19.41	9.24	17.01	1.24	0.86	30.27	19.23	0.96
2600.0	11.78	18.78	9.40	17.58	1.22	0.87	30.94	18.75	1.03
2800.0	11.26	18.20	9.65	18.28	1.21	0.88	31.00	18.89	1.17
3000.0	10.77	17.64	9.83	18.86	1.19	0.90	31.33	18.75	1.12
3200.0	10.31	17.14	10.03	19.18	1.18	0.90	31.24	19.36	1.33
3400.0	9.86	16.68	10.17	18.89	1.17	0.91	31.09	19.44	1.23
3600.0	9.42	16.26	10.26	18.08	1.18	0.90	31.32	19.18	1.30
3800.0	8.99	15.88	10.21	17.17	1.19	0.89	31.21	19.44	1.30
4000.0	8.57	15.54	10.10	16.45	1.21	0.87	31.23	19.21	1.28

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 = 2.70V, Id = 29.19mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
50.0	23.83	28.47	6.19	13.39	0.94	0.81	27.38	15.43	0.80
60.0	23.80	27.97	6.80	15.17	0.94	0.77	27.07	15.27	0.67
70.0	23.68	27.94	7.29	15.49	0.97	0.76	27.44	15.15	0.69
80.0	23.59	27.89	7.53	15.89	0.98	0.76	27.14	15.25	0.63
90.0	23.53	27.82	7.73	16.32	0.99	0.75	26.69	15.17	0.58
100.0	23.48	27.79	7.89	16.55	0.99	0.75	26.82	15.15	0.60
150.0	23.28	27.63	8.20	17.21	1.00	0.75	26.44	15.37	0.62
200.0	23.09	27.47	8.34	17.54	0.99	0.76	27.00	15.28	0.60
300.0	22.59	27.12	8.43	17.76	0.98	0.80	27.48	15.55	0.57
350.0	22.31	26.89	8.35	17.73	0.97	0.82	27.21	15.45	0.69
400.0	22.00	26.69	8.30	17.82	0.97	0.84	27.72	15.70	0.69
450.0	21.69	26.45	8.30	17.89	0.97	0.85	28.15	15.70	0.67
500.0	21.36	26.24	8.30	17.97	0.97	0.86	27.53	15.87	0.71
550.0	21.01	26.04	8.30	18.03	0.98	0.87	28.03	15.95	0.67
600.0	20.67	25.80	8.23	17.95	0.98	0.88	27.84	16.04	0.74
650.0	20.35	25.58	8.21	18.02	0.99	0.88	28.26	16.18	0.74
700.0	20.01	25.37	8.22	18.13	1.00	0.89	28.19	16.20	0.75
750.0	19.67	25.18	8.28	18.26	1.02	0.89	28.50	16.30	0.77
800.0	19.32	25.00	8.32	18.20	1.03	0.89	28.31	16.42	0.80
850.0	18.99	24.78	8.25	17.99	1.04	0.90	28.43	16.51	0.82
900.0	18.68	24.54	8.20	17.87	1.05	0.90	28.58	16.57	0.77
950.0	18.37	24.31	8.19	17.85	1.06	0.90	28.43	16.73	0.78
1000.0	18.07	24.10	8.19	17.79	1.07	0.90	27.73	16.76	0.82
1200.0	16.92	23.31	8.27	17.66	1.12	0.89	28.30	17.05	0.82
1400.0	15.88	22.56	8.37	17.48	1.16	0.89	28.43	17.32	0.91
1600.0	14.97	21.81	8.44	17.27	1.19	0.88	28.46	17.86	0.90
1800.0	14.14	21.10	8.54	17.14	1.21	0.87	28.84	17.88	0.97
2000.0	13.41	20.43	8.64	17.10	1.22	0.87	29.37	17.84	0.89
2200.0	12.75	19.77	8.73	17.40	1.22	0.87	29.59	18.22	0.93
2400.0	12.13	19.13	8.93	17.99	1.22	0.88	29.34	18.42	1.00
2600.0	11.57	18.51	9.09	18.69	1.21	0.89	29.96	17.87	1.11
2800.0	11.05	17.94	9.32	19.50	1.19	0.90	30.11	18.03	1.20
3000.0	10.57	17.40	9.49	20.10	1.18	0.91	30.66	17.89	1.14
3200.0	10.11	16.90	9.69	20.32	1.17	0.91	30.55	18.52	1.23
3400.0	9.65	16.45	9.82	19.77	1.17	0.91	30.34	18.62	1.22
3600.0	9.22	16.04	9.92	18.73	1.17	0.90	30.68	18.28	1.18
3800.0	8.79	15.67	9.87	17.68	1.19	0.89	30.42	18.61	1.25
4000.0	8.37	15.33	9.77	16.90	1.21	0.87	30.85	18.36	1.19

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 = 3.30V, Id = 36.47mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
50.0	24.43	28.55	6.61	14.14	0.93	0.76	29.24	16.91	0.90
60.0	24.38	28.29	7.59	16.15	0.96	0.73	28.98	16.79	0.66
70.0	24.26	28.29	7.80	16.58	0.97	0.74	29.22	16.77	0.68
80.0	24.17	28.24	8.06	17.08	0.98	0.73	28.88	16.85	0.63
90.0	24.12	28.18	8.29	17.62	0.99	0.72	28.58	16.77	0.58
100.0	24.06	28.14	8.46	17.92	1.00	0.72	28.95	16.79	0.61
150.0	23.85	28.01	8.90	18.77	1.01	0.72	28.42	16.89	0.63
200.0	23.65	27.90	8.97	19.17	1.01	0.74	28.87	16.85	0.61
300.0	23.13	27.62	8.99	19.26	1.01	0.77	29.63	17.12	0.62
350.0	22.85	27.45	8.94	19.17	1.01	0.79	29.32	17.02	0.65
400.0	22.53	27.29	8.89	19.20	1.01	0.81	29.91	17.27	0.65
450.0	22.21	27.09	8.86	19.21	1.01	0.83	30.44	17.35	0.65
500.0	21.87	26.89	8.82	19.20	1.01	0.84	29.62	17.46	0.69
550.0	21.51	26.72	8.83	19.13	1.02	0.86	30.33	17.59	0.66
600.0	21.17	26.50	8.73	18.94	1.02	0.87	30.04	17.67	0.74
650.0	20.84	26.29	8.72	18.92	1.03	0.88	30.56	17.79	0.74
700.0	20.49	26.09	8.72	18.94	1.04	0.89	30.58	17.86	0.75
750.0	20.14	25.91	8.76	18.93	1.05	0.89	30.89	17.98	0.86
800.0	19.79	25.74	8.81	18.71	1.07	0.90	30.64	18.10	0.80
850.0	19.46	25.51	8.73	18.39	1.07	0.90	30.92	18.16	0.79
900.0	19.14	25.26	8.69	18.19	1.08	0.90	30.87	18.17	0.78
950.0	18.83	25.04	8.66	18.07	1.09	0.90	30.62	18.39	0.73
1000.0	18.52	24.82	8.66	17.90	1.10	0.90	29.99	18.34	0.80
1200.0	17.35	24.00	8.71	17.35	1.14	0.90	30.55	18.77	0.82
1400.0	16.30	23.21	8.85	16.77	1.19	0.89	30.55	18.95	0.87
1600.0	15.37	22.44	8.91	16.27	1.22	0.87	30.65	19.41	0.93
1800.0	14.53	21.70	9.01	15.87	1.24	0.86	31.08	19.47	0.91
2000.0	13.78	21.01	9.13	15.63	1.25	0.85	31.65	19.46	0.88
2200.0	13.11	20.33	9.24	15.71	1.26	0.85	31.76	19.81	0.95
2400.0	12.49	19.66	9.46	16.06	1.25	0.85	31.39	19.97	0.95
2600.0	11.92	19.02	9.65	16.54	1.24	0.86	31.94	19.51	1.07
2800.0	11.40	18.44	9.88	17.13	1.22	0.87	31.74	19.64	1.15
3000.0	10.91	17.88	10.08	17.65	1.20	0.89	31.79	19.54	1.11
3200.0	10.45	17.37	10.29	17.99	1.19	0.90	32.02	20.12	1.20
3400.0	9.99	16.90	10.45	17.84	1.18	0.90	31.73	20.17	1.10
3600.0	9.56	16.48	10.54	17.20	1.18	0.90	31.80	19.94	1.11
3800.0	9.12	16.09	10.49	16.43	1.19	0.88	31.41	20.17	1.15
4000.0	8.70	15.76	10.36	15.80	1.22	0.87	31.21	19.95	1.12

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 = 3.00V, Id = 34.28mA @ Temperature = -45°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
50.0	24.39	28.05	7.19	14.72	0.91	0.74	29.56	16.28	0.81
60.0	24.27	27.75	7.91	17.04	0.93	0.72	29.01	16.19	0.56
70.0	24.12	27.73	8.63	17.80	0.96	0.70	29.42	16.29	0.59
80.0	24.01	27.65	9.00	18.66	0.97	0.69	29.22	16.40	0.61
90.0	23.94	27.60	9.33	19.51	0.99	0.68	28.79	16.29	0.49
100.0	23.88	27.58	9.53	20.10	0.99	0.68	29.05	16.33	0.49
150.0	23.68	27.47	10.15	22.35	1.02	0.68	28.48	16.46	0.56
200.0	23.51	27.36	10.48	24.59	1.02	0.68	29.14	16.51	0.50
300.0	23.04	27.21	10.49	25.90	1.04	0.71	29.96	16.92	0.43
350.0	22.79	27.08	10.45	24.91	1.04	0.73	29.47	16.82	0.57
400.0	22.52	26.97	10.38	24.40	1.04	0.74	29.89	17.02	0.57
450.0	22.24	26.82	10.33	24.31	1.05	0.76	30.50	17.12	0.52
500.0	21.93	26.69	10.21	24.17	1.05	0.78	29.85	17.23	0.55
550.0	21.59	26.58	10.11	23.81	1.06	0.80	30.51	17.33	0.49
600.0	21.27	26.40	9.90	22.95	1.06	0.81	30.10	17.40	0.56
650.0	20.97	26.23	9.76	22.49	1.06	0.83	30.33	17.48	0.62
700.0	20.65	26.06	9.66	22.11	1.07	0.84	30.62	17.49	0.60
750.0	20.33	25.90	9.64	21.76	1.08	0.85	30.96	17.57	0.68
800.0	19.98	25.77	9.67	21.28	1.09	0.86	30.41	17.70	0.64
850.0	19.64	25.58	9.51	20.59	1.10	0.88	30.69	17.74	0.68
900.0	19.36	25.35	9.33	20.25	1.09	0.88	30.73	17.76	0.62
950.0	19.06	25.12	9.27	20.04	1.10	0.89	30.68	17.97	0.59
1000.0	18.78	24.91	9.28	19.75	1.11	0.89	29.90	17.98	0.63
1200.0	17.67	24.10	9.26	18.86	1.14	0.89	30.48	18.26	0.66
1400.0	16.64	23.34	9.40	17.69	1.18	0.87	30.51	18.45	0.68
1600.0	15.72	22.57	9.36	16.90	1.21	0.86	30.55	19.07	0.74
1800.0	14.90	21.82	9.37	16.33	1.22	0.85	30.81	18.92	0.73
2000.0	14.16	21.14	9.46	15.72	1.24	0.84	31.51	18.84	0.64
2200.0	13.48	20.46	9.56	15.59	1.24	0.83	31.35	19.11	0.67
2400.0	12.86	19.79	9.77	15.64	1.24	0.83	31.09	19.46	0.69
2600.0	12.31	19.14	9.84	16.06	1.23	0.83	31.42	18.89	0.79
2800.0	11.81	18.54	10.10	16.77	1.21	0.84	31.34	18.95	0.89
3000.0	11.35	17.94	10.36	17.78	1.18	0.86	31.66	18.69	0.86
3200.0	10.90	17.41	10.82	17.73	1.16	0.86	31.64	19.34	0.99
3400.0	10.46	16.93	10.96	17.77	1.15	0.87	31.59	19.67	0.88
3600.0	10.02	16.50	10.94	17.39	1.15	0.87	31.47	19.27	0.86
3800.0	9.58	16.12	10.76	16.99	1.16	0.86	31.25	19.64	0.93
4000.0	9.11	15.83	10.37	16.14	1.19	0.86	31.07	19.12	0.93

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 = 2.70V, Id = 29.72mA @ Temperature = -45°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
50.0	24.24	27.82	7.67	14.79	0.92	0.71	28.32	15.86	0.74
60.0	24.12	27.86	8.16	17.03	0.94	0.74	28.08	15.71	0.61
70.0	23.97	27.62	8.55	17.83	0.96	0.71	28.51	15.78	0.62
80.0	23.86	27.54	8.97	18.71	0.97	0.70	28.18	15.93	0.61
90.0	23.79	27.49	9.25	19.57	0.98	0.69	27.94	15.85	0.49
100.0	23.73	27.46	9.50	20.19	0.99	0.69	28.17	15.78	0.54
150.0	23.53	27.36	10.16	22.58	1.02	0.68	27.82	16.02	0.55
200.0	23.35	27.23	10.46	24.99	1.02	0.68	28.31	16.06	0.53
300.0	22.89	27.05	10.48	26.64	1.04	0.71	29.06	16.32	0.44
350.0	22.64	26.95	10.41	25.56	1.04	0.73	28.57	16.27	0.56
400.0	22.37	26.80	10.34	25.06	1.04	0.74	29.03	16.42	0.56
450.0	22.09	26.65	10.25	24.99	1.04	0.76	29.47	16.44	0.52
500.0	21.79	26.50	10.13	24.94	1.05	0.78	28.86	16.59	0.56
550.0	21.45	26.39	10.05	24.68	1.06	0.80	29.30	16.60	0.57
600.0	21.14	26.20	9.82	23.81	1.06	0.81	29.18	16.71	0.59
650.0	20.83	26.03	9.68	23.39	1.06	0.82	29.45	16.76	0.63
700.0	20.52	25.85	9.58	23.07	1.07	0.84	29.49	16.77	0.62
750.0	20.20	25.69	9.55	22.80	1.08	0.85	29.67	16.82	0.65
800.0	19.85	25.56	9.57	22.38	1.09	0.86	29.51	16.93	0.69
850.0	19.52	25.37	9.42	21.67	1.09	0.87	29.54	16.97	0.68
900.0	19.24	25.12	9.25	21.32	1.09	0.88	29.72	16.99	0.60
950.0	18.95	24.90	9.17	21.13	1.10	0.88	29.83	17.19	0.58
1000.0	18.67	24.68	9.18	20.83	1.10	0.88	29.07	17.21	0.65
1200.0	17.56	23.87	9.16	19.95	1.14	0.88	29.67	17.40	0.65
1400.0	16.54	23.11	9.28	18.72	1.17	0.87	29.68	17.63	0.76
1600.0	15.63	22.34	9.23	17.92	1.19	0.86	29.78	18.11	0.73
1800.0	14.81	21.59	9.24	17.35	1.21	0.85	30.25	18.08	0.75
2000.0	14.07	20.91	9.32	16.70	1.22	0.84	30.59	18.00	0.66
2200.0	13.40	20.22	9.42	16.59	1.23	0.84	31.04	18.25	0.73
2400.0	12.78	19.56	9.61	16.67	1.23	0.83	30.84	18.59	0.72
2600.0	12.23	18.91	9.67	17.18	1.21	0.84	30.95	18.00	0.81
2800.0	11.72	18.31	9.91	18.01	1.20	0.85	31.20	18.08	0.90
3000.0	11.27	17.72	10.16	19.23	1.17	0.86	31.49	17.83	0.87
3200.0	10.82	17.19	10.61	19.17	1.16	0.87	31.84	18.46	0.97
3400.0	10.38	16.71	10.72	19.20	1.15	0.87	31.93	18.76	0.92
3600.0	9.94	16.29	10.69	18.69	1.15	0.87	31.75	18.34	0.96
3800.0	9.50	15.91	10.51	18.16	1.16	0.86	31.82	18.71	0.94
4000.0	9.04	15.63	10.16	17.16	1.18	0.86	31.79	18.19	0.82

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 = 3.30V, Id = 38.53mA @ Temperature = -45°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
50.0	24.68	28.42	7.92	15.35	0.93	0.74	30.42	17.34	0.76
60.0	24.55	28.10	8.29	17.70	0.94	0.72	29.97	17.24	0.61
70.0	24.40	27.87	9.02	18.65	0.96	0.69	30.56	17.37	0.63
80.0	24.29	27.82	9.49	19.73	0.98	0.68	30.39	17.54	0.53
90.0	24.21	27.75	9.78	20.80	0.99	0.67	30.09	17.42	0.47
100.0	24.14	27.71	10.09	21.64	1.00	0.67	30.36	17.42	0.50
150.0	23.94	27.64	10.84	25.16	1.02	0.66	29.67	17.60	0.53
200.0	23.75	27.52	11.15	28.94	1.03	0.66	30.46	17.65	0.48
300.0	23.28	27.41	11.16	30.94	1.05	0.69	31.06	18.03	0.41
350.0	23.03	27.33	10.97	29.03	1.05	0.71	30.77	17.95	0.53
400.0	22.75	27.19	10.92	27.98	1.06	0.73	31.23	18.12	0.53
450.0	22.46	27.06	10.86	27.58	1.06	0.74	32.19	18.20	0.52
500.0	22.15	26.94	10.69	27.03	1.07	0.76	31.13	18.31	0.56
550.0	21.81	26.83	10.55	26.17	1.08	0.79	31.97	18.38	0.53
600.0	21.49	26.66	10.33	24.86	1.08	0.80	31.68	18.51	0.58
650.0	21.18	26.50	10.15	24.08	1.08	0.82	32.00	18.53	0.60
700.0	20.86	26.33	10.05	23.41	1.09	0.83	32.06	18.57	0.64
750.0	20.54	26.18	10.01	22.79	1.10	0.85	32.50	18.60	0.69
800.0	20.19	26.04	10.03	22.05	1.11	0.86	31.91	18.74	0.66
850.0	19.85	25.85	9.85	21.18	1.11	0.87	32.20	18.78	0.67
900.0	19.56	25.61	9.68	20.73	1.11	0.88	32.38	18.79	0.61
950.0	19.27	25.39	9.61	20.42	1.11	0.88	31.99	19.04	0.60
1000.0	18.99	25.17	9.60	20.06	1.12	0.88	31.47	19.02	0.67
1200.0	17.86	24.34	9.57	18.91	1.15	0.88	31.91	19.25	0.65
1400.0	16.83	23.56	9.70	17.59	1.19	0.87	31.94	19.46	0.71
1600.0	15.91	22.77	9.65	16.66	1.21	0.86	31.92	19.96	0.78
1800.0	15.08	22.02	9.68	16.01	1.23	0.84	32.07	19.83	0.75
2000.0	14.33	21.33	9.79	15.34	1.25	0.83	32.84	19.77	0.67
2200.0	13.65	20.63	9.88	15.16	1.25	0.82	32.54	20.01	0.72
2400.0	13.02	19.95	10.09	15.15	1.25	0.82	32.35	20.32	0.73
2600.0	12.47	19.29	10.18	15.50	1.23	0.82	32.57	19.75	0.80
2800.0	11.96	18.69	10.45	16.13	1.21	0.83	32.11	19.83	0.91
3000.0	11.51	18.08	10.71	17.05	1.19	0.85	32.15	19.55	0.87
3200.0	11.05	17.55	11.19	17.02	1.17	0.85	32.17	20.19	1.02
3400.0	10.61	17.06	11.32	17.05	1.16	0.86	32.14	20.50	0.91
3600.0	10.17	16.63	11.28	16.71	1.15	0.86	31.62	20.10	0.94
3800.0	9.72	16.25	11.10	16.36	1.16	0.85	31.37	20.46	1.06
4000.0	9.25	15.96	10.70	15.59	1.19	0.85	30.74	19.97	0.87

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 = 3.00V, Id = 32.25mA @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
50.0	23.95	28.75	5.68	12.00	0.93	0.80	28.31	15.81	0.97
60.0	23.98	28.77	6.09	13.41	0.96	0.80	27.92	15.59	0.82
70.0	23.88	28.56	6.52	13.63	0.98	0.77	28.17	15.51	0.82
80.0	23.81	28.49	6.73	13.89	0.98	0.77	27.73	15.60	0.75
90.0	23.77	28.42	6.89	14.21	0.99	0.77	27.44	15.52	0.69
100.0	23.73	28.39	7.01	14.39	0.99	0.77	27.44	15.54	0.72
150.0	23.53	28.24	7.23	14.86	0.99	0.78	27.20	15.74	0.73
200.0	23.30	28.04	7.27	14.86	0.98	0.80	27.63	15.66	0.73
300.0	22.75	27.58	7.35	14.64	0.95	0.84	28.04	15.87	0.71
350.0	22.46	27.33	7.37	14.75	0.93	0.87	27.82	15.87	0.82
400.0	22.13	27.07	7.38	15.00	0.93	0.89	28.59	16.08	0.82
450.0	21.78	26.81	7.41	15.17	0.92	0.90	29.01	16.11	0.78
500.0	21.42	26.57	7.42	15.21	0.93	0.92	28.14	16.26	0.81
550.0	21.06	26.34	7.46	15.18	0.93	0.93	28.81	16.38	0.82
600.0	20.70	26.09	7.50	15.11	0.94	0.93	28.64	16.40	0.87
650.0	20.36	25.85	7.54	15.19	0.95	0.93	29.05	16.58	0.93
700.0	20.00	25.63	7.58	15.37	0.96	0.94	29.18	16.62	0.92
750.0	19.64	25.44	7.63	15.51	0.98	0.94	29.53	16.71	0.98
800.0	19.31	25.23	7.68	15.48	0.99	0.94	29.09	16.83	0.96
850.0	18.97	24.99	7.67	15.40	1.00	0.94	29.39	16.79	0.96
900.0	18.64	24.76	7.71	15.36	1.02	0.94	29.55	16.92	0.92
950.0	18.32	24.54	7.73	15.40	1.03	0.93	29.27	17.03	0.94
1000.0	18.01	24.33	7.76	15.41	1.05	0.93	28.49	16.96	0.99
1200.0	16.85	23.53	7.94	15.47	1.11	0.91	29.33	17.35	1.00
1400.0	15.81	22.77	8.11	15.47	1.16	0.90	29.27	17.52	1.08
1600.0	14.88	22.04	8.25	15.41	1.21	0.88	29.31	17.84	1.16
1800.0	14.05	21.34	8.37	15.45	1.24	0.88	29.85	18.08	1.19
2000.0	13.31	20.69	8.51	15.50	1.25	0.87	30.65	18.13	1.11
2200.0	12.63	20.05	8.64	15.68	1.26	0.88	30.53	18.48	1.18
2400.0	11.99	19.43	8.84	16.06	1.26	0.88	30.56	18.59	1.21
2600.0	11.42	18.82	9.01	16.59	1.24	0.90	31.29	18.32	1.36
2800.0	10.90	18.27	9.24	17.26	1.23	0.91	31.14	18.43	1.47
3000.0	10.41	17.73	9.40	17.81	1.21	0.93	31.43	18.43	1.45
3200.0	9.95	17.24	9.55	18.21	1.20	0.94	31.22	18.93	1.48
3400.0	9.49	16.79	9.69	18.02	1.19	0.94	31.19	18.81	1.47
3600.0	9.06	16.36	9.87	17.22	1.20	0.93	31.57	18.75	1.42
3800.0	8.64	16.00	9.95	16.32	1.22	0.91	31.67	18.85	1.33
4000.0	8.25	15.65	9.97	15.54	1.24	0.89	31.71	18.85	1.24

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 = 2.70V, Id = 28.53mA @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
50.0	23.57	29.01	5.31	11.61	0.96	0.84	27.45	14.94	1.05
60.0	23.61	28.51	6.10	12.86	0.97	0.79	26.76	14.79	0.80
70.0	23.52	28.36	6.25	13.05	0.97	0.79	27.10	14.67	0.84
80.0	23.45	28.29	6.46	13.29	0.98	0.78	26.81	14.74	0.85
90.0	23.41	28.21	6.60	13.59	0.98	0.78	26.40	14.69	0.74
100.0	23.37	28.17	6.71	13.75	0.99	0.78	26.55	14.67	0.74
150.0	23.17	28.00	6.94	14.19	0.98	0.80	26.21	14.88	0.78
200.0	22.95	27.79	6.98	14.19	0.96	0.82	26.64	14.80	0.77
300.0	22.41	27.29	7.07	14.02	0.93	0.86	27.13	15.06	0.79
350.0	22.13	26.99	7.09	14.14	0.91	0.88	26.87	15.05	0.83
400.0	21.80	26.71	7.11	14.40	0.90	0.90	27.56	15.21	0.83
450.0	21.46	26.44	7.12	14.59	0.90	0.92	27.89	15.30	0.80
500.0	21.11	26.18	7.16	14.65	0.90	0.93	27.09	15.41	0.84
550.0	20.75	25.94	7.20	14.66	0.91	0.94	27.68	15.57	0.84
600.0	20.40	25.67	7.23	14.61	0.91	0.94	27.55	15.56	0.85
650.0	20.06	25.43	7.28	14.72	0.92	0.94	27.90	15.81	0.89
700.0	19.71	25.21	7.33	14.93	0.94	0.94	28.02	15.79	0.96
750.0	19.35	25.01	7.37	15.11	0.95	0.94	28.22	15.92	0.90
800.0	19.02	24.81	7.44	15.13	0.97	0.94	27.99	15.95	0.95
850.0	18.69	24.57	7.42	15.08	0.98	0.94	28.20	16.01	0.99
900.0	18.37	24.34	7.46	15.07	1.00	0.93	28.37	16.18	0.95
950.0	18.05	24.12	7.49	15.14	1.01	0.93	28.08	16.21	0.90
1000.0	17.74	23.91	7.51	15.19	1.03	0.93	27.39	16.19	0.98
1200.0	16.59	23.14	7.70	15.40	1.10	0.91	28.18	16.62	1.02
1400.0	15.56	22.40	7.87	15.54	1.15	0.90	28.13	16.82	1.07
1600.0	14.64	21.69	8.00	15.62	1.19	0.89	28.12	17.19	1.12
1800.0	13.82	21.02	8.13	15.77	1.22	0.88	28.69	17.36	1.16
2000.0	13.08	20.39	8.25	15.94	1.24	0.88	29.48	17.39	1.08
2200.0	12.41	19.77	8.37	16.21	1.24	0.89	29.47	17.75	1.18
2400.0	11.78	19.16	8.58	16.70	1.24	0.90	29.29	17.89	1.21
2600.0	11.21	18.57	8.74	17.33	1.23	0.91	30.22	17.52	1.35
2800.0	10.69	18.02	8.94	18.08	1.21	0.92	30.04	17.67	1.48
3000.0	10.20	17.50	9.10	18.66	1.20	0.94	30.73	17.65	1.41
3200.0	9.75	17.02	9.25	19.02	1.19	0.95	30.47	18.18	1.41
3400.0	9.29	16.57	9.39	18.67	1.19	0.95	30.27	18.09	1.43
3600.0	8.86	16.16	9.56	17.72	1.19	0.94	30.85	17.98	1.51
3800.0	8.44	15.80	9.65	16.71	1.21	0.92	31.05	18.12	1.37
4000.0	8.05	15.45	9.67	15.88	1.24	0.89	31.32	18.10	1.36

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 = 3.30V, Id = 35.99mA @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
50.0	24.24	28.76	6.43	12.37	0.96	0.74	29.13	16.43	1.09
60.0	24.27	28.76	6.47	13.86	0.96	0.77	28.65	16.31	0.82
70.0	24.17	28.75	6.75	14.08	0.98	0.76	28.93	16.26	0.84
80.0	24.10	28.67	6.96	14.36	0.99	0.76	28.54	16.36	0.83
90.0	24.07	28.59	7.10	14.71	0.99	0.76	28.33	16.32	0.72
100.0	24.02	28.56	7.23	14.91	0.99	0.76	28.35	16.32	0.74
150.0	23.81	28.44	7.50	15.40	1.00	0.77	28.07	16.48	0.77
200.0	23.58	28.26	7.52	15.38	0.98	0.79	28.61	16.43	0.73
300.0	23.02	27.86	7.59	15.11	0.96	0.84	29.12	16.64	0.73
350.0	22.73	27.63	7.62	15.20	0.95	0.86	28.87	16.65	0.81
400.0	22.39	27.38	7.60	15.44	0.95	0.88	29.42	16.83	0.81
450.0	22.04	27.13	7.62	15.59	0.94	0.89	30.13	16.89	0.77
500.0	21.67	26.91	7.64	15.60	0.95	0.91	29.27	16.99	0.81
550.0	21.30	26.69	7.68	15.53	0.95	0.92	29.88	17.15	0.81
600.0	20.94	26.44	7.70	15.43	0.96	0.93	29.54	17.14	0.83
650.0	20.59	26.21	7.75	15.49	0.97	0.93	30.24	17.31	0.90
700.0	20.23	26.00	7.79	15.62	0.98	0.94	30.18	17.32	0.94
750.0	19.87	25.81	7.82	15.72	1.00	0.94	30.45	17.44	0.92
800.0	19.53	25.59	7.88	15.64	1.01	0.94	30.21	17.52	0.95
850.0	19.19	25.35	7.86	15.53	1.02	0.94	30.44	17.48	0.93
900.0	18.86	25.12	7.91	15.46	1.03	0.94	30.56	17.65	0.92
950.0	18.53	24.90	7.93	15.47	1.05	0.94	30.30	17.68	0.89
1000.0	18.22	24.68	7.95	15.44	1.06	0.93	29.55	17.63	0.97
1200.0	17.05	23.86	8.13	15.37	1.12	0.92	30.33	17.98	1.00
1400.0	16.00	23.08	8.30	15.25	1.18	0.90	30.41	18.13	1.11
1600.0	15.06	22.34	8.45	15.09	1.22	0.88	30.30	18.41	1.15
1800.0	14.22	21.63	8.57	15.03	1.25	0.87	30.98	18.67	1.15
2000.0	13.48	20.96	8.71	15.01	1.27	0.87	31.48	18.74	1.13
2200.0	12.79	20.31	8.86	15.11	1.27	0.87	31.46	19.08	1.17
2400.0	12.15	19.68	9.06	15.41	1.27	0.87	31.36	19.14	1.20
2600.0	11.58	19.06	9.25	15.86	1.26	0.89	32.06	18.94	1.29
2800.0	11.05	18.49	9.47	16.45	1.24	0.90	31.55	19.05	1.45
3000.0	10.56	17.95	9.62	16.96	1.22	0.92	31.64	19.10	1.44
3200.0	10.10	17.45	9.79	17.37	1.21	0.93	31.78	19.52	1.55
3400.0	9.64	16.99	9.94	17.30	1.20	0.93	31.17	19.36	1.52
3600.0	9.21	16.56	10.11	16.64	1.20	0.92	31.29	19.39	1.57
3800.0	8.79	16.20	10.18	15.85	1.22	0.91	30.88	19.44	1.54
4000.0	8.39	15.83	10.21	15.11	1.24	0.89	30.88	19.46	1.51