

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, Id1 (A1) = 146.17 mA and Id2 (A2) = 138.65 mA @ Temperature = +25degC

FREQ	A1		A2		A1 & A2		A1					
	Gain		Amp Unbal	Phase Unbal	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
	(MHz)	(dB)	(dB)	(Deg)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
50.0	17.70	17.61	0.09	0.36	21.61	11.56	13.97	0.98	0.67	43.22	22.44	1.75
100.0	16.79	16.74	0.05	0.39	20.85	15.97	18.28	1.06	0.64	43.05	22.49	1.72
200.0	16.46	16.43	0.03	0.42	20.62	19.40	21.29	1.09	0.63	43.33	22.72	1.63
300.0	16.36	16.34	0.02	0.52	20.56	20.05	21.83	1.10	0.63	43.94	22.79	1.75
400.0	16.30	16.29	0.01	0.60	20.51	19.98	21.53	1.10	0.63	42.76	22.56	1.71
500.0	16.24	16.25	0.01	0.69	20.45	19.46	20.96	1.10	0.63	43.09	22.82	1.77
600.0	16.18	16.20	0.02	0.79	20.37	18.75	20.24	1.09	0.63	43.81	22.76	1.78
700.0	16.12	16.15	0.03	0.90	20.27	17.90	19.52	1.09	0.63	43.18	22.77	1.79
800.0	16.04	16.08	0.04	0.98	20.21	16.97	18.57	1.08	0.63	43.46	22.72	1.80
900.0	15.96	16.02	0.06	1.05	20.12	16.10	17.61	1.08	0.63	44.68	22.92	1.82
1000.0	15.87	15.94	0.07	1.09	20.01	15.22	16.74	1.07	0.63	42.01	22.49	1.88
1100.0	15.77	15.86	0.09	1.15	19.92	14.38	15.96	1.06	0.63	42.90	22.71	1.93
1200.0	15.66	15.77	0.11	1.18	19.81	13.58	15.18	1.06	0.63	44.60	22.83	1.97
1300.0	15.53	15.67	0.14	1.16	19.72	12.84	14.44	1.05	0.63	44.00	22.69	2.01
1400.0	15.41	15.55	0.14	1.17	19.61	12.10	13.75	1.04	0.63	43.41	22.72	2.04
1500.0	15.26	15.43	0.17	1.14	19.53	11.40	13.13	1.04	0.64	44.57	22.81	2.09
1600.0	15.11	15.30	0.19	1.11	19.44	10.71	12.48	1.03	0.64	44.17	22.56	2.13
1700.0	14.95	15.15	0.20	1.03	19.34	10.10	11.87	1.02	0.64	42.78	22.24	2.14
1800.0	14.78	14.99	0.21	0.95	19.27	9.54	11.35	1.02	0.64	43.30	22.30	2.15
1900.0	14.59	14.82	0.23	0.81	19.23	9.03	10.85	1.01	0.65	43.68	22.10	2.22
2000.0	14.41	14.65	0.24	0.75	19.12	8.49	10.35	1.00	0.65	42.86	22.09	2.21
2100.0	14.21	14.46	0.25	0.54	19.08	8.04	9.94	1.00	0.66	44.75	22.21	2.26
2200.0	14.01	14.24	0.23	0.46	19.00	7.56	9.46	0.99	0.66	43.15	21.78	2.28
2300.0	13.79	14.04	0.25	0.34	19.00	7.08	9.08	0.99	0.67	43.88	21.73	2.36
2400.0	13.56	13.80	0.24	0.25	18.94	6.69	8.66	0.98	0.67	43.45	21.81	2.35
2500.0	13.33	13.54	0.21	0.17	18.90	6.28	8.23	0.98	0.67	43.50	21.34	2.45
2600.0	13.08	13.29	0.21	0.04	18.93	5.92	7.88	0.97	0.68	43.31	21.42	2.46
2700.0	12.83	13.02	0.19	0.04	18.90	5.55	7.48	0.97	0.68	43.67	21.33	2.61
2800.0	12.54	12.73	0.19	0.06	18.88	5.19	7.08	0.96	0.68	43.49	21.13	2.64
2900.0	12.26	12.42	0.16	0.07	18.95	4.87	6.74	0.96	0.69	41.75	20.73	2.72
3000.0	11.98	12.12	0.14	0.29	19.00	4.62	6.46	0.96	0.69	42.03	20.84	2.65
3100.0	11.65	11.77	0.12	0.16	19.01	4.30	6.10	0.95	0.69	41.58	20.51	2.86
3200.0	11.35	11.42	0.07	0.24	19.10	4.05	5.82	0.95	0.70	42.47	20.52	2.95
3300.0	11.02	11.10	0.08	0.03	19.19	3.80	5.53	0.95	0.70	41.38	20.48	3.03
3400.0	10.67	10.72	0.05	0.08	19.30	3.57	5.25	0.95	0.70	42.12	20.28	3.19
3500.0	10.36	10.39	0.03	0.05	19.38	3.37	4.99	0.94	0.70	41.59	20.14	3.28
3600.0	10.02	10.05	0.03	0.26	19.47	3.17	4.76	0.94	0.70	40.41	19.81	3.35
3700.0	9.64	9.68	0.04	0.44	19.58	2.98	4.51	0.94	0.69	41.35	19.81	3.58
3800.0	9.27	9.31	0.04	0.37	19.72	2.79	4.28	0.93	0.69	41.07	19.61	3.64
3900.0	8.93	8.97	0.04	0.55	19.85	2.65	4.11	0.93	0.69	40.10	19.36	3.67
4000.0	8.56	8.60	0.04	0.53	19.98	2.53	3.92	0.93	0.69	40.05	19.21	3.84

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, Id1 (A1) = 132.48 mA and Id2 (A2) = 125.02 mA @ Temperature = +25degC

FREQ	A1		A2		A1 & A2		A1					
	Gain		Amp Unbal	Phase Unbal	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
	(MHz)	(dB)	(dB)	(Deg)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
50.0	17.62	17.56	0.06	0.50	21.48	11.51	14.07	0.98	0.67	43.79	21.92	1.76
100.0	16.71	16.70	0.01	0.59	20.75	15.92	18.30	1.06	0.64	43.22	21.97	1.75
200.0	16.37	16.39	0.02	0.61	20.58	19.38	21.35	1.10	0.64	43.94	22.16	1.70
300.0	16.27	16.30	0.03	0.69	20.47	20.01	21.92	1.10	0.63	45.75	22.24	1.76
400.0	16.21	16.25	0.04	0.81	20.46	19.96	21.61	1.10	0.64	43.56	22.03	1.82
500.0	16.16	16.20	0.04	0.93	20.39	19.50	21.08	1.10	0.63	44.44	22.28	1.81
600.0	16.10	16.15	0.05	1.05	20.30	18.83	20.29	1.09	0.63	44.12	22.21	1.85
700.0	16.03	16.10	0.07	1.18	20.25	17.95	19.51	1.09	0.63	43.72	22.24	1.82
800.0	15.95	16.04	0.09	1.29	20.15	17.07	18.60	1.09	0.63	43.90	22.23	1.87
900.0	15.87	15.97	0.10	1.37	20.07	16.20	17.69	1.08	0.63	46.32	22.39	1.84
1000.0	15.79	15.90	0.11	1.46	19.97	15.30	16.84	1.07	0.63	42.59	21.98	1.92
1100.0	15.68	15.81	0.13	1.54	19.88	14.43	16.01	1.07	0.63	43.09	22.18	2.01
1200.0	15.58	15.73	0.15	1.59	19.77	13.64	15.25	1.06	0.63	45.50	22.29	2.02
1300.0	15.46	15.62	0.16	1.61	19.66	12.91	14.53	1.05	0.63	44.05	22.15	2.07
1400.0	15.33	15.50	0.17	1.65	19.56	12.16	13.83	1.04	0.63	43.27	22.20	2.06
1500.0	15.18	15.38	0.20	1.64	19.49	11.45	13.20	1.04	0.64	43.64	22.26	2.11
1600.0	15.04	15.25	0.21	1.64	19.38	10.78	12.53	1.03	0.64	43.81	22.05	2.16
1700.0	14.88	15.10	0.22	1.55	19.32	10.18	11.96	1.02	0.64	42.43	21.75	2.16
1800.0	14.71	14.95	0.24	1.61	19.22	9.59	11.41	1.02	0.65	42.42	21.80	2.18
1900.0	14.53	14.78	0.25	1.47	19.21	9.06	10.91	1.01	0.65	42.39	21.62	2.23
2000.0	14.34	14.60	0.26	1.44	19.11	8.52	10.39	1.01	0.65	41.68	21.58	2.28
2100.0	14.15	14.41	0.26	1.29	19.03	8.06	9.96	1.00	0.66	43.82	21.70	2.32
2200.0	13.95	14.19	0.24	1.26	18.95	7.59	9.48	0.99	0.66	41.37	21.28	2.32
2300.0	13.73	13.99	0.26	1.20	18.90	7.12	9.09	0.99	0.66	41.85	21.22	2.39
2400.0	13.52	13.75	0.23	1.15	18.89	6.71	8.67	0.98	0.67	41.67	21.32	2.37
2500.0	13.27	13.49	0.22	1.06	18.87	6.32	8.26	0.98	0.67	41.53	20.83	2.46
2600.0	13.02	13.24	0.22	1.01	18.88	5.94	7.87	0.97	0.68	41.19	20.93	2.52
2700.0	12.77	12.97	0.20	0.86	18.87	5.59	7.51	0.97	0.68	41.25	20.83	2.63
2800.0	12.49	12.67	0.18	0.87	18.88	5.25	7.13	0.97	0.69	40.81	20.64	2.67
2900.0	12.20	12.36	0.16	1.01	18.88	4.92	6.77	0.96	0.69	39.61	20.25	2.77
3000.0	11.88	12.05	0.17	0.68	19.00	4.67	6.48	0.97	0.70	39.81	20.35	2.77
3100.0	11.62	11.71	0.09	0.94	19.00	4.35	6.16	0.96	0.70	39.34	20.02	2.84
3200.0	11.31	11.36	0.05	0.98	19.08	4.09	5.87	0.95	0.70	39.47	20.01	2.92
3300.0	10.98	11.04	0.06	1.21	19.16	3.84	5.56	0.95	0.70	39.14	19.97	3.02
3400.0	10.62	10.65	0.03	1.35	19.26	3.61	5.26	0.95	0.70	39.14	19.76	3.17
3500.0	10.31	10.32	0.01	1.41	19.34	3.40	5.02	0.95	0.70	39.08	19.62	3.20
3600.0	9.96	9.98	0.02	1.74	19.43	3.21	4.77	0.95	0.70	37.86	19.31	3.36
3700.0	9.58	9.61	0.03	1.93	19.57	3.01	4.52	0.94	0.70	38.33	19.28	3.52
3800.0	9.24	9.24	0.00	1.92	19.67	2.84	4.30	0.94	0.69	38.21	19.07	3.55
3900.0	8.89	8.90	0.01	2.19	19.81	2.69	4.13	0.94	0.69	37.58	18.86	3.62
4000.0	8.51	8.53	0.02	2.20	19.97	2.57	3.92	0.94	0.69	37.50	18.71	3.79

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, Id1 (A1) = 159.58mA and Id2 (A2) = 151.78 mA @ Temperature = +25degC

FREQ	A1		A2		A1 & A2		A1					
	Gain		Amp Unbal	Phase Unbal	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
	(MHz)	(dB)	(dB)	(Deg)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
50.0	17.73	17.69	0.04	0.54	21.33	11.48	13.99	0.97	0.64	42.95	22.97	1.87
100.0	16.83	16.83	0.00	0.61	20.84	16.06	18.35	1.06	0.64	42.47	22.98	1.79
200.0	16.50	16.53	0.03	0.61	20.69	19.53	21.37	1.09	0.63	42.42	23.21	1.73
300.0	16.40	16.44	0.04	0.68	20.56	20.17	21.90	1.10	0.63	43.83	23.31	1.79
400.0	16.34	16.39	0.05	0.81	20.54	20.09	21.66	1.10	0.63	41.70	23.04	1.83
500.0	16.29	16.35	0.06	0.92	20.49	19.62	21.11	1.10	0.63	42.34	23.31	1.85
600.0	16.23	16.30	0.07	1.04	20.43	18.90	20.38	1.10	0.63	42.84	23.25	1.85
700.0	16.16	16.25	0.09	1.15	20.37	18.05	19.61	1.09	0.63	42.32	23.25	1.87
800.0	16.08	16.18	0.10	1.25	20.28	17.15	18.69	1.09	0.63	42.20	23.19	1.88
900.0	16.01	16.12	0.11	1.35	20.17	16.27	17.82	1.08	0.63	43.17	23.42	1.90
1000.0	15.92	16.05	0.13	1.42	20.09	15.37	16.97	1.07	0.63	41.14	22.93	1.97
1100.0	15.81	15.96	0.15	1.50	19.99	14.49	16.14	1.07	0.63	42.11	23.16	2.04
1200.0	15.71	15.87	0.16	1.55	19.91	13.70	15.39	1.06	0.63	43.12	23.30	2.03
1300.0	15.59	15.77	0.18	1.58	19.81	12.97	14.68	1.05	0.63	42.38	23.11	2.08
1400.0	15.47	15.66	0.19	1.60	19.64	12.21	13.97	1.04	0.63	42.39	23.17	2.12
1500.0	15.32	15.53	0.21	1.58	19.63	11.50	13.34	1.04	0.64	43.28	23.26	2.16
1600.0	15.18	15.40	0.22	1.58	19.51	10.82	12.68	1.03	0.64	42.58	23.00	2.19
1700.0	15.02	15.25	0.23	1.51	19.45	10.21	12.10	1.03	0.64	41.74	22.67	2.22
1800.0	14.86	15.10	0.24	1.53	19.33	9.64	11.57	1.02	0.64	43.29	22.72	2.23
1900.0	14.67	14.94	0.27	1.41	19.29	9.10	11.05	1.02	0.65	42.12	22.51	2.27
2000.0	14.49	14.76	0.27	1.38	19.23	8.55	10.53	1.01	0.66	43.02	22.50	2.31
2100.0	14.29	14.57	0.28	1.22	19.18	8.10	10.11	1.00	0.66	43.46	22.59	2.36
2200.0	14.09	14.35	0.26	1.17	19.10	7.63	9.63	1.00	0.66	42.27	22.16	2.34
2300.0	13.88	14.15	0.27	1.13	19.06	7.15	9.23	0.99	0.67	42.99	22.11	2.48
2400.0	13.67	13.91	0.24	1.05	19.02	6.73	8.81	0.99	0.67	44.15	22.19	2.43
2500.0	13.42	13.65	0.23	0.96	19.00	6.34	8.39	0.98	0.68	42.77	21.71	2.53
2600.0	13.18	13.41	0.23	0.94	18.99	5.96	8.00	0.98	0.68	43.25	21.79	2.54
2700.0	12.92	13.14	0.22	0.77	18.99	5.62	7.63	0.97	0.69	43.86	21.69	2.71
2800.0	12.64	12.84	0.20	0.77	18.99	5.27	7.24	0.97	0.69	43.44	21.50	2.77
2900.0	12.37	12.53	0.16	0.89	19.02	4.94	6.88	0.97	0.69	42.79	21.09	2.88
3000.0	12.04	12.23	0.19	0.59	19.12	4.68	6.59	0.97	0.70	43.59	21.20	2.87
3100.0	11.79	11.89	0.10	0.84	19.13	4.36	6.26	0.96	0.70	42.98	20.87	2.93
3200.0	11.48	11.54	0.06	0.87	19.21	4.10	5.97	0.96	0.71	43.46	20.88	3.02
3300.0	11.15	11.21	0.06	1.11	19.24	3.85	5.64	0.95	0.70	43.86	20.84	3.12
3400.0	10.79	10.83	0.04	1.25	19.34	3.61	5.35	0.95	0.71	43.93	20.63	3.24
3500.0	10.48	10.50	0.02	1.28	19.46	3.40	5.11	0.95	0.71	44.16	20.47	3.27
3600.0	10.14	10.17	0.03	1.60	19.52	3.20	4.86	0.95	0.70	43.47	20.15	3.50
3700.0	9.76	9.79	0.03	1.82	19.68	3.01	4.59	0.95	0.70	44.05	20.15	3.61
3800.0	9.41	9.42	0.01	1.80	19.77	2.83	4.37	0.94	0.70	44.73	19.95	3.70
3900.0	9.07	9.08	0.01	2.10	19.91	2.68	4.20	0.94	0.70	44.17	19.69	3.77
4000.0	8.69	8.72	0.03	2.09	20.07	2.56	3.98	0.94	0.69	44.33	19.54	3.90

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 = 5.00V, Id1 (A1) = 140.16 mA and Id2 (A2) = 133.54 mA @ Temperature = -45degC

FREQ	A1		A2		A1 & A2		A1					
	Gain		Amp Unbal	Phase Unbal	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
	(MHz)	(dB)	(dB)	(Deg)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
50.0	17.43	17.36	0.07	0.55	21.02	11.79	13.32	0.95	0.65	42.66	22.52	1.63
100.0	16.31	16.30	0.01	0.71	20.30	16.45	16.48	1.05	0.63	40.64	22.67	1.56
200.0	15.88	15.90	0.02	0.70	20.08	20.38	18.43	1.09	0.62	40.34	22.81	1.49
300.0	15.76	15.80	0.04	0.76	19.98	21.10	18.49	1.10	0.62	40.43	22.87	1.53
400.0	15.70	15.75	0.05	0.89	19.96	20.82	18.25	1.10	0.62	39.22	22.73	1.51
500.0	15.66	15.71	0.05	1.02	19.91	20.27	18.08	1.10	0.62	40.08	22.96	1.52
600.0	15.61	15.67	0.06	1.14	19.86	19.37	17.54	1.10	0.61	39.69	22.90	1.51
700.0	15.55	15.63	0.08	1.25	19.80	18.25	16.84	1.10	0.61	39.38	22.95	1.51
800.0	15.49	15.57	0.08	1.37	19.76	17.25	16.30	1.10	0.61	39.46	22.93	1.54
900.0	15.42	15.53	0.11	1.49	19.66	16.35	15.79	1.09	0.61	40.47	23.08	1.54
1000.0	15.35	15.47	0.12	1.59	19.59	15.38	15.07	1.09	0.61	38.69	22.77	1.60
1100.0	15.26	15.39	0.13	1.68	19.55	14.48	14.41	1.08	0.61	39.27	22.96	1.64
1200.0	15.17	15.32	0.15	1.75	19.49	13.68	13.92	1.08	0.61	40.20	23.02	1.68
1300.0	15.07	15.24	0.17	1.79	19.38	12.89	13.32	1.07	0.60	39.63	22.93	1.69
1400.0	14.96	15.13	0.17	1.85	19.31	12.15	12.73	1.06	0.60	39.36	22.99	1.72
1500.0	14.84	15.03	0.19	1.87	19.26	11.49	12.24	1.06	0.61	40.13	23.06	1.78
1600.0	14.71	14.93	0.22	1.88	19.20	10.80	11.71	1.05	0.61	39.53	22.90	1.82
1700.0	14.57	14.79	0.22	1.82	19.13	10.21	11.22	1.05	0.61	38.81	22.65	1.78
1800.0	14.44	14.66	0.22	1.90	19.05	9.67	10.79	1.04	0.61	39.54	22.70	1.81
1900.0	14.28	14.53	0.25	1.81	19.05	9.13	10.36	1.04	0.62	39.14	22.55	1.86
2000.0	14.12	14.38	0.26	1.78	18.96	8.63	9.97	1.03	0.62	39.34	22.53	1.89
2100.0	13.97	14.21	0.24	1.70	18.90	8.18	9.56	1.03	0.62	39.81	22.65	1.91
2200.0	13.78	14.03	0.25	1.66	18.84	7.66	9.12	1.02	0.62	39.00	22.28	1.86
2300.0	13.61	13.86	0.25	1.65	18.79	7.20	8.77	1.01	0.62	39.01	22.22	1.95
2400.0	13.41	13.65	0.24	1.66	18.77	6.83	8.35	1.01	0.62	39.87	22.27	1.94
2500.0	13.20	13.43	0.23	1.54	18.77	6.43	7.96	1.00	0.62	38.87	21.83	2.03
2600.0	12.98	13.21	0.23	1.48	18.78	6.05	7.66	1.00	0.63	39.05	21.93	2.04
2700.0	12.77	12.99	0.22	1.44	18.74	5.73	7.34	0.99	0.63	39.50	21.83	2.17
2800.0	12.53	12.73	0.20	1.47	18.72	5.35	6.94	0.99	0.63	39.46	21.63	2.18
2900.0	12.28	12.45	0.17	1.55	18.76	4.99	6.61	0.98	0.63	38.47	21.24	2.27
3000.0	11.98	12.17	0.19	1.60	18.81	4.70	6.28	0.98	0.64	38.99	21.29	2.26
3100.0	11.75	11.87	0.12	1.52	18.85	4.41	5.97	0.98	0.63	38.42	20.98	2.32
3200.0	11.47	11.55	0.08	1.39	18.90	4.13	5.69	0.97	0.63	38.70	20.97	2.35
3300.0	11.16	11.25	0.09	1.76	18.98	3.85	5.38	0.97	0.63	38.80	20.94	2.51
3400.0	10.82	10.89	0.07	2.15	19.08	3.59	5.05	0.96	0.63	38.71	20.69	2.61
3500.0	10.54	10.59	0.05	1.95	19.16	3.37	4.80	0.96	0.63	38.87	20.56	2.60
3600.0	10.23	10.27	0.04	2.25	19.27	3.16	4.59	0.95	0.63	38.17	20.29	2.73
3700.0	9.84	9.91	0.07	2.58	19.42	2.94	4.30	0.95	0.63	38.66	20.22	2.88
3800.0	9.50	9.56	0.06	2.47	19.54	2.74	4.04	0.94	0.62	38.57	19.97	2.96
3900.0	9.19	9.23	0.04	2.62	19.64	2.58	3.89	0.94	0.62	38.07	19.80	2.96
4000.0	8.82	8.87	0.05	2.81	19.81	2.44	3.68	0.94	0.61	38.13	19.59	3.09

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, Id1 (A1) = 127.58 mA and Id2 (A2) = 118.02 mA @ Temperature = -45degC

FREQ	A1		A2		A1 & A2		A1					
	Gain		Amp Unbal	Phase Unbal	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
	(MHz)	(dB)	(dB)	(Deg)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
50.0	17.37	17.29	0.08	0.44	21.16	11.69	13.46	0.96	0.67	42.17	21.87	1.62
100.0	16.28	16.25	0.03	0.59	20.28	16.36	16.76	1.05	0.63	40.87	21.97	1.55
200.0	15.86	15.86	0.00	0.64	20.05	20.37	18.91	1.09	0.62	40.69	22.12	1.45
300.0	15.75	15.76	0.01	0.71	20.03	21.19	18.97	1.10	0.63	41.38	22.18	1.47
400.0	15.69	15.71	0.02	0.85	19.95	20.97	18.76	1.10	0.62	39.73	22.05	1.48
500.0	15.65	15.68	0.03	0.99	19.88	20.40	18.58	1.10	0.62	40.62	22.29	1.55
600.0	15.60	15.64	0.04	1.12	19.84	19.52	17.99	1.10	0.62	40.56	22.23	1.51
700.0	15.55	15.60	0.05	1.24	19.78	18.39	17.24	1.10	0.61	40.06	22.30	1.50
800.0	15.48	15.54	0.06	1.35	19.72	17.40	16.67	1.09	0.61	40.21	22.27	1.53
900.0	15.42	15.50	0.08	1.48	19.65	16.49	16.12	1.09	0.61	41.40	22.40	1.54
1000.0	15.34	15.44	0.10	1.57	19.57	15.49	15.36	1.08	0.61	39.39	22.13	1.57
1100.0	15.25	15.36	0.11	1.68	19.49	14.56	14.66	1.08	0.61	39.70	22.31	1.68
1200.0	15.17	15.29	0.12	1.73	19.43	13.77	14.13	1.07	0.61	40.70	22.36	1.63
1300.0	15.07	15.20	0.13	1.79	19.34	12.96	13.52	1.07	0.61	40.12	22.30	1.68
1400.0	14.96	15.10	0.14	1.85	19.29	12.22	12.91	1.06	0.61	39.84	22.35	1.70
1500.0	14.83	15.00	0.17	1.87	19.23	11.53	12.40	1.06	0.61	40.74	22.41	1.76
1600.0	14.71	14.90	0.19	1.88	19.15	10.86	11.84	1.05	0.61	40.05	22.28	1.82
1700.0	14.57	14.76	0.19	1.82	19.08	10.26	11.36	1.05	0.61	39.06	22.05	1.74
1800.0	14.43	14.63	0.20	1.89	19.02	9.70	10.90	1.04	0.61	39.74	22.10	1.78
1900.0	14.27	14.50	0.23	1.82	18.97	9.16	10.47	1.03	0.62	39.39	21.96	1.83
2000.0	14.11	14.35	0.24	1.78	18.90	8.66	10.07	1.03	0.62	39.62	21.95	1.83
2100.0	13.95	14.18	0.23	1.70	18.85	8.19	9.64	1.02	0.62	40.56	22.05	1.87
2200.0	13.77	14.00	0.23	1.69	18.81	7.68	9.19	1.02	0.62	39.07	21.70	1.86
2300.0	13.59	13.82	0.23	1.65	18.76	7.21	8.82	1.01	0.63	39.43	21.64	1.96
2400.0	13.40	13.61	0.21	1.64	18.71	6.84	8.41	1.00	0.62	39.93	21.69	1.90
2500.0	13.17	13.39	0.22	1.55	18.74	6.42	8.01	1.00	0.63	39.10	21.27	2.03
2600.0	12.97	13.17	0.20	1.45	18.71	6.05	7.71	0.99	0.64	39.17	21.34	2.00
2700.0	12.75	12.95	0.20	1.43	18.68	5.73	7.40	0.99	0.63	39.50	21.27	2.16
2800.0	12.51	12.69	0.18	1.43	18.69	5.35	6.98	0.98	0.63	39.23	21.05	2.16
2900.0	12.25	12.40	0.15	1.48	18.73	5.00	6.65	0.98	0.64	38.15	20.68	2.30
3000.0	11.96	12.12	0.16	1.46	18.79	4.73	6.34	0.98	0.64	38.64	20.75	2.24
3100.0	11.72	11.82	0.10	1.55	18.82	4.41	6.01	0.97	0.64	38.01	20.43	2.26
3200.0	11.44	11.50	0.06	1.43	18.89	4.12	5.71	0.97	0.64	38.22	20.42	2.33
3300.0	11.14	11.20	0.06	1.74	18.94	3.86	5.41	0.96	0.64	38.39	20.42	2.46
3400.0	10.79	10.84	0.05	2.11	19.02	3.59	5.07	0.96	0.64	38.19	20.16	2.56
3500.0	10.51	10.53	0.02	1.91	19.14	3.38	4.83	0.95	0.64	38.09	20.03	2.60
3600.0	10.19	10.22	0.03	2.24	19.24	3.16	4.61	0.95	0.64	37.20	19.76	2.71
3700.0	9.81	9.85	0.04	2.55	19.39	2.94	4.32	0.95	0.63	37.75	19.74	2.83
3800.0	9.46	9.50	0.04	2.46	19.49	2.75	4.07	0.94	0.62	37.63	19.47	2.92
3900.0	9.15	9.17	0.02	2.60	19.61	2.59	3.92	0.93	0.63	37.06	19.28	2.84
4000.0	8.77	8.81	0.04	2.79	19.76	2.45	3.70	0.93	0.62	36.99	19.09	3.02

Typical Performance Data

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Vd =5.25V, Id1 (A1) = 156.08 mA and Id2 (A2) =146.41 mA @ Temperature = -45degC

FREQ	A1		A2		A1 & A2		A1					
	Gain		Amp Unbal	Phase Unbal	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
	(MHz)	(dB)	(dB)	(Deg)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
50.0	17.50	17.44	0.06	0.43	21.02	11.88	13.50	0.95	0.64	44.48	23.10	1.66
100.0	16.41	16.40	0.01	0.58	20.34	16.45	16.69	1.05	0.62	40.49	23.21	1.59
200.0	15.99	16.01	0.02	0.62	20.17	20.42	18.66	1.09	0.62	40.20	23.36	1.50
300.0	15.88	15.91	0.03	0.69	20.12	21.18	18.67	1.10	0.62	40.58	23.42	1.50
400.0	15.82	15.86	0.04	0.81	20.10	20.89	18.47	1.11	0.62	39.25	23.25	1.56
500.0	15.77	15.82	0.05	0.92	20.00	20.32	18.30	1.10	0.62	39.78	23.47	1.56
600.0	15.72	15.79	0.07	1.05	19.95	19.46	17.74	1.10	0.61	39.97	23.42	1.57
700.0	15.67	15.74	0.07	1.17	19.90	18.31	17.02	1.10	0.61	39.49	23.45	1.53
800.0	15.60	15.68	0.08	1.27	19.82	17.30	16.47	1.09	0.61	39.52	23.42	1.54
900.0	15.54	15.64	0.10	1.38	19.78	16.42	15.96	1.09	0.61	40.43	23.59	1.58
1000.0	15.46	15.58	0.12	1.47	19.69	15.41	15.20	1.08	0.61	38.81	23.24	1.63
1100.0	15.37	15.50	0.13	1.55	19.62	14.50	14.54	1.08	0.61	39.15	23.43	1.65
1200.0	15.29	15.43	0.14	1.62	19.57	13.72	14.02	1.08	0.61	40.36	23.52	1.69
1300.0	15.18	15.34	0.16	1.64	19.45	12.91	13.43	1.07	0.60	39.56	23.40	1.72
1400.0	15.07	15.23	0.16	1.71	19.41	12.17	12.82	1.06	0.60	39.49	23.46	1.75
1500.0	14.94	15.13	0.19	1.70	19.35	11.48	12.33	1.06	0.61	40.05	23.54	1.77
1600.0	14.82	15.03	0.21	1.72	19.23	10.81	11.79	1.05	0.60	39.58	23.35	1.81
1700.0	14.68	14.89	0.21	1.64	19.22	10.23	11.31	1.05	0.61	38.79	23.08	1.81
1800.0	14.54	14.76	0.22	1.72	19.12	9.67	10.85	1.04	0.61	39.58	23.13	1.82
1900.0	14.38	14.62	0.24	1.63	19.07	9.13	10.44	1.04	0.61	39.19	22.98	1.86
2000.0	14.22	14.47	0.25	1.58	19.01	8.63	10.04	1.03	0.62	39.66	22.97	1.89
2100.0	14.07	14.30	0.23	1.50	18.94	8.17	9.62	1.02	0.61	40.00	23.08	1.95
2200.0	13.88	14.12	0.24	1.47	18.91	7.65	9.17	1.02	0.62	39.01	22.69	1.91
2300.0	13.70	13.94	0.24	1.42	18.85	7.19	8.81	1.01	0.62	39.27	22.63	2.01
2400.0	13.51	13.73	0.22	1.40	18.83	6.82	8.40	1.01	0.62	39.88	22.75	1.95
2500.0	13.29	13.51	0.22	1.31	18.81	6.41	8.00	1.00	0.62	38.92	22.26	2.05
2600.0	13.08	13.29	0.21	1.21	18.79	6.04	7.71	1.00	0.63	39.26	22.38	2.07
2700.0	12.87	13.07	0.20	1.18	18.77	5.72	7.39	0.99	0.63	39.35	22.28	2.19
2800.0	12.62	12.81	0.19	1.20	18.79	5.33	6.98	0.99	0.63	39.42	22.05	2.22
2900.0	12.37	12.52	0.15	1.20	18.82	4.99	6.65	0.98	0.64	38.60	21.66	2.34
3000.0	12.07	12.23	0.16	1.16	18.88	4.72	6.34	0.98	0.64	39.11	21.72	2.28
3100.0	11.83	11.93	0.10	1.28	18.92	4.40	6.01	0.97	0.64	38.56	21.39	2.36
3200.0	11.55	11.61	0.06	1.15	18.98	4.11	5.72	0.97	0.64	38.94	21.39	2.42
3300.0	11.25	11.31	0.06	1.47	19.06	3.85	5.41	0.97	0.64	39.01	21.38	2.56
3400.0	10.90	10.95	0.05	1.84	19.14	3.58	5.07	0.96	0.63	39.03	21.12	2.64
3500.0	10.62	10.65	0.03	1.61	19.21	3.37	4.83	0.96	0.63	38.98	21.00	2.64
3600.0	10.31	10.33	0.02	1.93	19.33	3.15	4.61	0.95	0.63	38.53	20.72	2.82
3700.0	9.92	9.96	0.04	2.28	19.46	2.92	4.32	0.95	0.63	39.07	20.66	2.96
3800.0	9.57	9.61	0.04	2.17	19.56	2.72	4.06	0.94	0.62	38.74	20.42	3.02
3900.0	9.27	9.28	0.01	2.29	19.72	2.58	3.92	0.94	0.63	38.52	20.22	3.06
4000.0	8.89	8.93	0.04	2.50	19.84	2.43	3.70	0.93	0.62	38.83	20.00	3.17

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, Id1(A1) = 144.79 mA and Id2 (A2) = 136.99 mA @ Temperature = +85degC

FREQ	A1		A2		A1 & A2		A1					
	Gain		Amp Unbal	Phase Unbal	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
	(MHz)	(dB)	(dB)	(Deg)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
50.0	17.81	17.77	0.04	0.59	21.73	11.26	14.12	0.99	0.66	43.39	22.40	2.10
100.0	17.04	17.06	0.02	0.64	21.19	15.23	19.18	1.07	0.65	44.53	22.42	1.99
200.0	16.76	16.80	0.04	0.61	20.98	17.86	23.13	1.10	0.64	44.27	22.62	1.92
300.0	16.66	16.71	0.05	0.67	20.89	17.87	24.16	1.10	0.64	45.90	22.73	2.05
400.0	16.60	16.66	0.06	0.77	20.82	17.85	24.39	1.10	0.64	43.41	22.43	2.09
500.0	16.54	16.61	0.07	0.89	20.78	17.74	23.32	1.10	0.65	44.93	22.70	2.10
600.0	16.48	16.56	0.08	1.00	20.69	17.30	22.29	1.09	0.65	44.35	22.63	2.11
700.0	16.41	16.50	0.09	1.08	20.57	16.64	21.54	1.08	0.65	44.94	22.63	2.11
800.0	16.32	16.43	0.11	1.20	20.47	16.02	20.49	1.08	0.65	44.28	22.57	2.13
900.0	16.23	16.36	0.13	1.28	20.35	15.41	19.18	1.07	0.65	46.02	22.80	2.19
1000.0	16.14	16.28	0.14	1.34	20.26	14.71	18.12	1.06	0.65	43.06	22.34	2.20
1100.0	16.03	16.18	0.15	1.42	20.13	13.96	17.28	1.05	0.65	44.54	22.60	2.29
1200.0	15.91	16.09	0.18	1.47	20.00	13.27	16.44	1.04	0.65	45.90	22.72	2.31
1300.0	15.78	15.98	0.20	1.46	19.91	12.62	15.55	1.04	0.66	44.96	22.51	2.35
1400.0	15.65	15.85	0.20	1.48	19.77	11.96	14.79	1.03	0.66	44.36	22.59	2.37
1500.0	15.50	15.72	0.22	1.49	19.66	11.30	14.11	1.02	0.66	45.18	22.66	2.46
1600.0	15.34	15.58	0.24	1.43	19.55	10.65	13.33	1.01	0.66	44.19	22.39	2.50
1700.0	15.16	15.41	0.25	1.36	19.48	10.05	12.64	1.01	0.67	43.62	22.07	2.50
1800.0	14.98	15.24	0.26	1.37	19.37	9.49	12.08	1.00	0.67	44.91	22.12	2.51
1900.0	14.78	15.06	0.28	1.18	19.33	8.97	11.48	1.00	0.68	44.59	21.91	2.58
2000.0	14.58	14.86	0.28	1.13	19.21	8.43	10.85	0.99	0.68	45.50	21.87	2.64
2100.0	14.37	14.64	0.27	1.02	19.14	7.96	10.38	0.98	0.69	44.63	22.00	2.69
2200.0	14.15	14.41	0.26	0.92	19.10	7.51	9.92	0.97	0.69	43.88	21.53	2.67
2300.0	13.91	14.18	0.27	0.85	19.09	7.02	9.46	0.97	0.70	44.85	21.48	2.79
2400.0	13.67	13.92	0.25	0.79	19.01	6.63	8.99	0.97	0.70	46.93	21.57	2.79
2500.0	13.41	13.63	0.22	0.67	19.01	6.23	8.56	0.96	0.71	43.81	21.06	2.92
2600.0	13.14	13.36	0.22	0.62	19.02	5.86	8.16	0.96	0.72	44.22	21.18	2.93
2700.0	12.86	13.06	0.20	0.47	19.04	5.51	7.77	0.96	0.73	45.21	21.06	3.09
2800.0	12.55	12.73	0.18	0.52	19.05	5.16	7.35	0.95	0.73	44.59	20.89	3.13
2900.0	12.26	12.40	0.14	0.63	19.10	4.84	7.02	0.95	0.74	45.07	20.46	3.26
3000.0	11.92	12.07	0.15	0.66	19.13	4.57	6.68	0.95	0.74	46.33	20.57	3.21
3100.0	11.65	11.71	0.06	0.56	19.17	4.30	6.43	0.95	0.75	44.49	20.25	3.36
3200.0	11.31	11.35	0.04	0.59	19.24	4.05	6.14	0.95	0.75	45.16	20.24	3.43
3300.0	10.97	11.02	0.05	0.96	19.30	3.82	5.82	0.94	0.75	47.72	20.17	3.57
3400.0	10.61	10.64	0.03	0.93	19.42	3.60	5.53	0.94	0.76	45.57	20.01	3.69
3500.0	10.28	10.27	0.01	1.05	19.50	3.40	5.30	0.94	0.76	46.27	19.86	3.75
3600.0	9.93	9.93	0.00	1.49	19.59	3.21	5.03	0.94	0.75	47.63	19.51	3.95
3700.0	9.54	9.56	0.02	1.66	19.71	3.02	4.77	0.94	0.75	47.40	19.52	4.04
3800.0	9.20	9.18	0.02	1.57	19.86	2.87	4.57	0.94	0.75	47.13	19.33	4.16
3900.0	8.84	8.82	0.02	1.92	19.94	2.72	4.39	0.93	0.75	48.03	19.07	4.23
4000.0	8.48	8.47	0.01	1.90	20.07	2.62	4.18	0.94	0.74	47.37	18.92	4.34

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, Id1(A1) = 131.62 mA and Id2 (A2) = 124.37 mA @ Temperature = +85degC

FREQ	A1		A2		A1 & A2		A1					
	Gain		Amp Unbal	Phase Unbal	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
	(MHz)	(dB)	(dB)	(Deg)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
50.0	17.77	17.71	0.06	0.53	21.46	11.09	14.24	0.98	0.64	42.68	21.88	2.08
100.0	17.01	17.01	0.00	0.53	21.08	15.01	19.16	1.06	0.64	43.83	21.89	2.00
200.0	16.73	16.75	0.02	0.52	20.93	17.50	23.22	1.09	0.64	45.51	22.09	1.87
300.0	16.63	16.67	0.04	0.60	20.90	17.55	24.22	1.10	0.65	46.21	22.17	1.98
400.0	16.58	16.62	0.04	0.72	20.85	17.55	24.44	1.10	0.65	45.09	21.91	2.04
500.0	16.52	16.57	0.05	0.83	20.76	17.43	23.52	1.09	0.65	46.12	22.16	2.07
600.0	16.45	16.51	0.06	0.92	20.67	17.04	22.42	1.09	0.65	46.95	22.10	2.06
700.0	16.38	16.45	0.07	1.02	20.55	16.43	21.66	1.08	0.65	46.24	22.11	2.09
800.0	16.29	16.38	0.09	1.13	20.42	15.83	20.64	1.07	0.65	46.08	22.05	2.11
900.0	16.21	16.31	0.10	1.19	20.33	15.25	19.26	1.07	0.65	48.55	22.25	2.16
1000.0	16.10	16.23	0.13	1.26	20.21	14.59	18.22	1.06	0.65	44.11	21.83	2.18
1100.0	16.00	16.13	0.13	1.36	20.10	13.89	17.37	1.05	0.65	46.64	22.05	2.24
1200.0	15.88	16.04	0.16	1.39	19.97	13.20	16.51	1.04	0.66	46.95	22.18	2.28
1300.0	15.75	15.93	0.18	1.37	19.85	12.57	15.61	1.03	0.66	47.18	22.00	2.34
1400.0	15.62	15.80	0.18	1.39	19.71	11.90	14.84	1.02	0.66	45.84	22.07	2.32
1500.0	15.46	15.67	0.21	1.37	19.62	11.28	14.18	1.02	0.66	49.07	22.15	2.44
1600.0	15.30	15.53	0.23	1.35	19.52	10.63	13.36	1.01	0.67	46.50	21.90	2.47
1700.0	15.13	15.36	0.23	1.26	19.38	10.04	12.69	1.00	0.67	45.39	21.59	2.46
1800.0	14.95	15.19	0.24	1.24	19.30	9.48	12.09	0.99	0.67	46.87	21.64	2.47
1900.0	14.74	15.01	0.27	1.08	19.27	8.95	11.48	0.99	0.68	46.95	21.43	2.56
2000.0	14.54	14.80	0.26	1.03	19.16	8.42	10.87	0.98	0.68	48.47	21.40	2.61
2100.0	14.33	14.59	0.26	0.90	19.09	7.96	10.40	0.98	0.69	48.54	21.51	2.66
2200.0	14.10	14.36	0.26	0.81	19.05	7.50	9.92	0.97	0.70	46.47	21.05	2.67
2300.0	13.87	14.12	0.25	0.73	19.00	7.02	9.46	0.97	0.70	47.47	21.00	2.76
2400.0	13.63	13.86	0.23	0.64	18.96	6.63	9.01	0.96	0.71	54.86	21.08	2.75
2500.0	13.36	13.57	0.21	0.54	18.96	6.23	8.56	0.96	0.72	47.05	20.59	2.86
2600.0	13.08	13.30	0.22	0.47	18.97	5.86	8.18	0.96	0.72	49.06	20.68	2.89
2700.0	12.81	13.00	0.19	0.34	18.98	5.51	7.77	0.95	0.73	54.54	20.59	3.05
2800.0	12.50	12.66	0.16	0.37	18.98	5.16	7.36	0.95	0.73	51.89	20.39	3.12
2900.0	12.20	12.33	0.13	0.45	19.02	4.85	7.01	0.95	0.74	51.35	19.98	3.28
3000.0	11.87	12.01	0.14	0.48	19.10	4.57	6.68	0.95	0.75	48.44	20.08	3.22
3100.0	11.58	11.64	0.06	0.41	19.13	4.29	6.44	0.94	0.75	49.17	19.77	3.28
3200.0	11.25	11.28	0.03	0.41	19.20	4.05	6.14	0.94	0.76	50.71	19.75	3.41
3300.0	10.91	10.95	0.04	0.77	19.26	3.82	5.81	0.94	0.76	48.63	19.67	3.54
3400.0	10.54	10.57	0.03	0.75	19.37	3.60	5.53	0.94	0.76	50.23	19.52	3.66
3500.0	10.21	10.20	0.01	0.82	19.47	3.41	5.30	0.94	0.76	49.45	19.35	3.69
3600.0	9.86	9.85	0.01	1.25	19.53	3.22	5.05	0.94	0.76	45.70	19.02	3.87
3700.0	9.47	9.48	0.01	1.43	19.68	3.03	4.78	0.94	0.76	45.37	19.02	4.03
3800.0	9.13	9.10	0.03	1.35	19.84	2.88	4.57	0.93	0.76	46.89	18.83	4.18
3900.0	8.77	8.75	0.02	1.70	19.95	2.73	4.41	0.93	0.76	43.90	18.59	4.23
4000.0	8.41	8.39	0.02	1.65	20.02	2.63	4.19	0.93	0.75	43.45	18.45	4.40

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, Id1(A1) = 157.33 mA and Id2 (A2) = 149.61 mA @ Temperature = +85degC

FREQ	A1		A2		A1 & A2		A1					
	Gain		Amp Unbal	Phase Unbal	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
	(MHz)	(dB)	(dB)	(Deg)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
50.0	17.87	17.83	0.04	0.53	21.97	11.24	14.31	1.00	0.68	43.71	22.88	2.20
100.0	17.13	17.13	0.00	0.51	21.24	15.11	19.26	1.07	0.65	43.46	22.86	2.07
200.0	16.85	16.88	0.03	0.52	21.07	17.59	23.41	1.10	0.64	44.49	23.05	2.07
300.0	16.76	16.80	0.04	0.58	20.96	17.61	24.47	1.10	0.64	45.65	23.16	2.07
400.0	16.70	16.75	0.05	0.68	20.94	17.59	24.68	1.10	0.65	43.51	22.84	2.09
500.0	16.64	16.70	0.06	0.80	20.85	17.47	23.82	1.09	0.64	43.83	23.10	2.16
600.0	16.57	16.64	0.07	0.91	20.77	17.07	22.70	1.09	0.65	44.39	23.03	2.15
700.0	16.50	16.58	0.08	1.01	20.68	16.45	21.91	1.08	0.65	44.35	23.03	2.12
800.0	16.42	16.52	0.10	1.11	20.56	15.86	20.90	1.08	0.65	43.80	22.97	2.19
900.0	16.33	16.44	0.11	1.18	20.47	15.28	19.50	1.07	0.65	44.41	23.20	2.23
1000.0	16.23	16.36	0.13	1.27	20.36	14.62	18.43	1.06	0.65	42.45	22.72	2.26
1100.0	16.12	16.27	0.15	1.34	20.21	13.90	17.62	1.05	0.65	43.28	22.95	2.32
1200.0	16.01	16.17	0.16	1.36	20.10	13.21	16.73	1.04	0.66	44.32	23.11	2.36
1300.0	15.87	16.06	0.19	1.37	19.99	12.56	15.83	1.04	0.66	43.19	22.91	2.41
1400.0	15.74	15.94	0.20	1.37	19.86	11.90	15.06	1.03	0.66	43.49	22.98	2.46
1500.0	15.59	15.81	0.22	1.38	19.74	11.29	14.36	1.02	0.66	44.19	23.07	2.51
1600.0	15.43	15.67	0.24	1.34	19.65	10.65	13.55	1.01	0.67	43.58	22.82	2.57
1700.0	15.25	15.50	0.25	1.24	19.50	10.04	12.88	1.00	0.67	42.32	22.47	2.57
1800.0	15.07	15.33	0.26	1.22	19.47	9.48	12.28	1.00	0.68	43.14	22.53	2.56
1900.0	14.86	15.15	0.29	1.04	19.40	8.98	11.66	0.99	0.68	42.35	22.31	2.63
2000.0	14.66	14.95	0.29	0.98	19.30	8.42	11.02	0.98	0.69	43.41	22.31	2.69
2100.0	14.46	14.73	0.27	0.86	19.22	7.95	10.54	0.98	0.69	42.93	22.42	2.74
2200.0	14.23	14.50	0.27	0.77	19.15	7.51	10.07	0.97	0.70	42.26	21.93	2.75
2300.0	13.99	14.27	0.28	0.65	19.13	7.02	9.61	0.97	0.71	42.59	21.90	2.89
2400.0	13.75	14.01	0.26	0.59	19.09	6.62	9.13	0.96	0.71	43.26	21.98	2.85
2500.0	13.49	13.72	0.23	0.46	19.08	6.23	8.69	0.96	0.72	41.46	21.47	2.98
2600.0	13.21	13.45	0.24	0.40	19.09	5.86	8.30	0.96	0.73	41.86	21.57	2.99
2700.0	12.93	13.15	0.22	0.23	19.11	5.51	7.89	0.96	0.73	42.24	21.46	3.14
2800.0	12.63	12.82	0.19	0.27	19.08	5.15	7.45	0.95	0.74	41.97	21.28	3.24
2900.0	12.33	12.49	0.16	0.35	19.15	4.84	7.12	0.95	0.75	41.28	20.84	3.35
3000.0	11.99	12.16	0.17	0.38	19.18	4.56	6.78	0.95	0.75	42.38	20.96	3.35
3100.0	11.71	11.80	0.09	0.27	19.25	4.29	6.53	0.95	0.76	41.44	20.64	3.43
3200.0	11.38	11.44	0.06	0.24	19.33	4.04	6.24	0.95	0.77	41.87	20.66	3.56
3300.0	11.04	11.11	0.07	0.63	19.38	3.81	5.90	0.94	0.76	41.92	20.57	3.66
3400.0	10.67	10.73	0.06	0.58	19.47	3.59	5.62	0.94	0.77	41.80	20.43	3.81
3500.0	10.34	10.36	0.02	0.65	19.56	3.40	5.39	0.94	0.77	41.48	20.24	3.88
3600.0	10.00	10.02	0.02	1.05	19.64	3.21	5.12	0.94	0.77	41.27	19.90	4.04
3700.0	9.60	9.64	0.04	1.23	19.79	3.03	4.85	0.94	0.76	41.92	19.91	4.22
3800.0	9.26	9.26	0.00	1.13	19.95	2.86	4.64	0.94	0.76	41.20	19.70	4.31
3900.0	8.91	8.91	0.00	1.42	19.99	2.72	4.48	0.93	0.76	41.32	19.45	4.41
4000.0	8.54	8.56	0.02	1.43	20.10	2.61	4.26	0.93	0.76	41.46	19.32	4.50