

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) = 70.93 mA and Id2 (A2) = 71.83 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)	(dB)	(Deg)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
10.0	24.40	24.43	0.03	0.05	27.28	11.48	6.43	0.87	0.29	--	17.80	2.86
20.0	23.21	23.22	0.01	0.14	25.94	13.72	9.28	0.90	0.45	36.16	18.90	3.71
30.0	22.50	22.52	0.02	0.11	25.19	15.41	11.73	0.94	0.48	36.97	19.48	3.63
40.0	22.11	22.13	0.02	0.08	24.87	16.48	13.67	0.98	0.49	34.67	19.30	3.62
50.0	21.89	21.92	0.03	0.07	24.74	17.40	15.16	1.00	0.50	34.70	18.99	3.65
60.0	21.72	21.74	0.02	0.08	24.88	17.94	16.35	1.02	0.54	36.10	19.37	3.67
70.0	21.65	21.67	0.02	0.09	24.66	18.15	17.38	1.02	0.52	35.28	19.30	3.64
80.0	21.58	21.61	0.03	0.11	24.64	18.40	18.17	1.03	0.52	34.88	19.23	3.66
90.0	21.54	21.56	0.02	0.10	24.59	18.63	18.83	1.03	0.52	35.73	19.25	3.68
100.0	21.51	21.53	0.02	0.11	24.56	18.77	19.35	1.03	0.52	34.26	19.25	3.68
200.0	21.38	21.41	0.03	0.24	24.56	19.20	21.63	1.05	0.53	35.21	19.03	3.65
400.0	21.33	21.37	0.04	0.39	24.48	18.94	21.56	1.05	0.52	35.47	19.27	3.85
500.0	21.33	21.36	0.03	0.49	24.45	18.70	20.92	1.05	0.52	35.37	19.31	3.84
600.0	21.33	21.37	0.04	0.57	24.39	18.50	20.13	1.05	0.51	35.18	19.29	3.88
800.0	21.34	21.39	0.05	0.73	24.28	17.90	18.36	1.04	0.48	35.91	19.44	3.71
1000.0	21.35	21.39	0.04	0.88	24.15	17.42	16.50	1.04	0.45	34.39	19.39	3.85
1200.0	21.33	21.39	0.06	1.02	24.01	16.87	14.76	1.03	0.42	35.16	19.70	3.82
1400.0	21.31	21.36	0.05	1.15	23.80	16.27	13.15	1.02	0.37	34.00	19.75	3.70
1600.0	21.23	21.28	0.05	1.23	23.67	15.57	11.82	1.01	0.34	34.25	19.69	3.80
1800.0	21.12	21.16	0.04	1.46	23.53	14.57	10.53	1.00	0.30	33.41	19.47	3.81
2000.0	20.96	21.00	0.04	1.74	23.45	13.43	9.38	0.99	0.28	32.67	18.94	3.76
2200.0	20.73	20.78	0.05	1.57	23.31	12.51	8.52	0.98	0.25	32.13	18.82	3.80
2400.0	20.43	20.46	0.03	1.98	23.29	11.27	7.61	0.98	0.24	31.57	18.53	3.77
2600.0	20.10	20.14	0.04	1.72	23.34	10.34	6.96	0.98	0.25	31.09	18.01	3.85
2800.0	19.68	19.70	0.02	2.03	23.38	9.21	6.19	0.97	0.25	30.48	17.68	4.00
3000.0	19.20	19.20	0.00	2.44	23.53	8.18	5.52	0.97	0.26	30.11	17.36	3.93
3200.0	18.68	18.68	0.00	2.39	23.65	7.36	5.02	0.97	0.27	29.44	17.04	4.05
3400.0	18.07	18.07	0.00	1.95	23.98	6.65	4.58	0.98	0.31	28.84	16.72	4.21
3600.0	17.46	17.42	0.04	2.64	24.22	5.95	4.15	0.98	0.33	28.46	16.44	4.28
3800.0	16.84	16.78	0.06	2.74	24.51	5.42	3.84	0.99	0.35	28.13	16.03	4.39
4000.0	16.15	16.08	0.07	2.97	24.80	4.93	3.57	1.00	0.38	27.98	15.54	4.58
4200.0	15.55	15.40	0.15	3.10	25.08	4.59	3.37	1.01	0.41	27.49	15.10	4.85
4400.0	14.86	14.72	0.14	3.30	25.43	4.23	3.21	1.02	0.44	27.48	14.59	4.87
4600.0	14.22	14.05	0.17	3.71	25.77	3.99	3.11	1.03	0.48	27.05	14.28	5.10
4800.0	13.58	13.42	0.16	4.02	26.07	3.77	3.02	1.04	0.51	26.53	13.77	5.32
5000.0	12.99	12.79	0.20	4.48	26.34	3.60	3.00	1.05	0.55	26.75	13.20	5.59
5200.0	12.39	12.19	0.20	4.95	26.68	3.50	3.01	1.08	0.59	25.92	12.58	5.83
5400.0	11.80	11.61	0.19	5.39	26.85	3.42	3.06	1.10	0.62	25.62	11.80	5.98
5600.0	11.23	11.02	0.21	5.86	27.09	3.37	3.09	1.13	0.66	24.43	11.62	6.25
5800.0	10.61	10.45	0.16	6.49	27.13	3.35	3.17	1.17	0.69	23.79	10.80	6.47
6000.0	10.01	9.86	0.15	6.73	27.22	3.33	3.22	1.19	0.72	23.62	10.42	6.83



Typical Performance Data

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Vd = 4.75V, Id1 (A1) = 60.02 mA and Id2 (A2) = 60.77 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)	(dB)	(Deg)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
10.0	24.24	24.21	0.03	0.16	27.72	11.72	6.66	0.88	0.39	--	16.66	2.74
20.0	23.03	23.06	0.03	0.12	25.72	13.61	9.08	0.90	0.44	34.54	17.66	3.60
30.0	22.33	22.36	0.03	0.09	25.03	15.51	11.48	0.94	0.47	33.73	18.16	3.55
40.0	21.95	21.98	0.03	0.07	24.75	16.84	13.35	0.98	0.49	32.58	17.63	3.56
50.0	21.73	21.76	0.03	0.07	24.51	17.86	14.82	0.99	0.49	32.31	17.40	3.57
60.0	21.56	21.59	0.03	0.08	24.47	18.77	15.95	1.01	0.50	32.99	17.89	3.57
70.0	21.49	21.52	0.03	0.09	24.55	18.97	16.85	1.02	0.52	33.09	17.88	3.54
80.0	21.43	21.46	0.03	0.10	24.44	19.33	17.58	1.03	0.51	32.60	17.65	3.55
90.0	21.38	21.42	0.04	0.10	24.41	19.59	18.16	1.03	0.52	32.97	17.70	3.58
100.0	21.35	21.38	0.03	0.11	24.36	19.80	18.68	1.03	0.51	32.16	17.73	3.58
200.0	21.23	21.26	0.03	0.20	24.38	20.43	20.68	1.05	0.53	32.79	17.39	3.56
400.0	21.18	21.22	0.04	0.36	24.35	20.15	20.77	1.05	0.52	33.17	17.78	3.75
500.0	21.18	21.23	0.05	0.45	24.26	19.87	20.21	1.05	0.51	33.05	17.77	3.72
600.0	21.19	21.23	0.04	0.51	24.21	19.60	19.61	1.05	0.50	33.02	17.76	3.79
800.0	21.20	21.26	0.06	0.63	24.11	18.97	18.08	1.04	0.48	33.57	17.94	3.65
1000.0	21.21	21.26	0.05	0.76	23.97	18.42	16.38	1.04	0.45	32.26	17.87	3.77
1200.0	21.20	21.27	0.07	0.89	23.80	17.84	14.74	1.03	0.41	33.49	18.32	3.71
1400.0	21.18	21.24	0.06	0.97	23.65	17.12	13.15	1.02	0.37	32.52	18.46	3.63
1600.0	21.11	21.17	0.06	1.02	23.50	16.29	11.84	1.01	0.34	33.09	18.64	3.69
1800.0	21.01	21.05	0.04	1.25	23.32	15.15	10.54	1.00	0.30	32.29	18.58	3.74
2000.0	20.84	20.89	0.05	1.50	23.20	13.85	9.39	0.99	0.27	31.60	18.13	3.68
2200.0	20.62	20.67	0.05	1.33	23.16	12.84	8.53	0.98	0.26	31.46	18.09	3.71
2400.0	20.32	20.35	0.03	1.70	23.11	11.52	7.62	0.97	0.24	30.86	17.87	3.71
2600.0	19.98	20.03	0.05	1.42	23.15	10.52	6.95	0.97	0.25	30.39	17.38	3.71
2800.0	19.57	19.59	0.02	1.70	23.21	9.35	6.18	0.97	0.25	29.79	17.09	3.92
3000.0	19.08	19.08	0.00	2.07	23.32	8.30	5.52	0.96	0.26	29.57	16.77	3.85
3200.0	18.56	18.56	0.00	2.01	23.49	7.45	5.01	0.97	0.27	28.63	16.44	3.94
3400.0	17.94	17.95	0.01	1.54	23.77	6.73	4.58	0.98	0.30	28.16	16.12	4.10
3600.0	17.33	17.29	0.04	2.24	24.00	6.03	4.15	0.98	0.32	27.77	15.84	4.16
3800.0	16.71	16.64	0.07	2.31	24.35	5.48	3.84	0.98	0.36	27.41	15.43	4.29
4000.0	16.01	15.94	0.07	2.51	24.57	4.98	3.56	0.99	0.38	27.11	14.96	4.43
4200.0	15.40	15.25	0.15	2.63	24.99	4.63	3.38	1.00	0.42	26.75	14.54	4.66
4400.0	14.71	14.57	0.14	2.80	25.27	4.28	3.21	1.01	0.45	26.77	14.03	4.74
4600.0	14.07	13.89	0.18	3.20	25.58	4.03	3.11	1.02	0.48	26.26	13.71	4.95
4800.0	13.42	13.25	0.17	3.52	25.94	3.82	3.01	1.03	0.51	25.77	13.24	5.14
5000.0	12.82	12.63	0.19	3.94	26.24	3.65	3.00	1.05	0.55	25.97	12.69	5.41
5200.0	12.22	12.01	0.21	4.36	26.54	3.54	3.01	1.07	0.59	25.04	12.08	5.65
5400.0	11.61	11.43	0.18	4.78	26.73	3.47	3.05	1.09	0.63	24.77	11.30	5.79
5600.0	11.04	10.83	0.21	5.24	26.90	3.41	3.08	1.11	0.66	23.55	11.10	6.01
5800.0	10.42	10.26	0.16	5.86	27.05	3.38	3.14	1.17	0.68	22.93	10.38	6.30
6000.0	9.81	9.67	0.14	6.07	27.11	3.36	3.19	1.19	0.72	22.75	9.89	6.60

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) = 81.33mA and Id2 (A2) = 82.26 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)	(dB)	(Deg)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
10.0	24.53	24.55	0.02	0.15	29.41	11.74	6.79	0.92	0.53	--	18.71	2.90
20.0	23.31	23.31	0.00	0.12	26.02	13.76	9.40	0.90	0.46	42.50	19.80	3.76
30.0	22.59	22.61	0.02	0.09	25.21	15.27	11.86	0.94	0.48	37.09	20.40	3.72
40.0	22.20	22.22	0.02	0.09	24.94	16.22	13.83	0.97	0.50	36.23	20.42	3.70
50.0	21.98	22.00	0.02	0.08	25.00	17.02	15.43	1.00	0.53	38.21	20.06	3.78
60.0	21.80	21.82	0.02	0.08	24.51	17.56	16.70	1.00	0.49	38.62	20.36	3.77
70.0	21.73	21.75	0.02	0.10	24.73	17.69	17.66	1.02	0.52	37.33	20.27	3.76
80.0	21.67	21.68	0.01	0.11	24.70	17.92	18.51	1.03	0.52	36.94	20.29	3.75
90.0	21.62	21.64	0.02	0.12	24.63	18.09	19.18	1.03	0.52	37.56	20.29	3.77
100.0	21.59	21.61	0.02	0.12	24.64	18.19	19.79	1.03	0.52	36.81	20.28	3.77
200.0	21.46	21.48	0.02	0.22	24.62	18.52	22.24	1.05	0.53	37.02	20.20	3.78
400.0	21.41	21.44	0.03	0.39	24.62	18.29	22.09	1.05	0.53	37.39	20.32	3.94
500.0	21.40	21.43	0.03	0.49	24.56	18.07	21.35	1.05	0.52	37.61	20.40	3.90
600.0	21.40	21.44	0.04	0.56	24.47	17.88	20.47	1.05	0.51	37.51	20.37	3.98
800.0	21.41	21.45	0.04	0.69	24.37	17.34	18.57	1.04	0.49	36.97	20.48	3.84
1000.0	21.42	21.46	0.04	0.83	24.22	16.91	16.64	1.04	0.45	35.87	20.51	3.93
1200.0	21.40	21.45	0.05	0.97	24.09	16.43	14.87	1.03	0.42	35.82	20.66	3.91
1400.0	21.37	21.42	0.05	1.06	23.94	15.88	13.25	1.02	0.38	34.59	20.63	3.82
1600.0	21.29	21.34	0.05	1.12	23.76	15.26	11.90	1.01	0.34	34.43	20.39	3.91
1800.0	21.18	21.22	0.04	1.34	23.64	14.31	10.59	1.01	0.31	33.73	20.06	3.89
2000.0	21.01	21.05	0.04	1.63	23.54	13.22	9.43	1.00	0.28	32.98	19.47	3.85
2200.0	20.79	20.83	0.04	1.43	23.47	12.35	8.58	0.99	0.27	32.37	19.32	3.89
2400.0	20.49	20.51	0.02	1.84	23.40	11.16	7.67	0.98	0.25	31.80	18.97	3.87
2600.0	20.15	20.19	0.04	1.54	23.49	10.25	7.01	0.98	0.26	31.23	18.41	3.93
2800.0	19.74	19.75	0.01	1.83	23.50	9.15	6.24	0.98	0.25	30.69	18.10	4.11
3000.0	19.26	19.25	0.01	2.22	23.65	8.13	5.57	0.98	0.26	30.34	17.76	4.03
3200.0	18.74	18.73	0.01	2.19	23.82	7.32	5.06	0.98	0.28	29.71	17.44	4.14
3400.0	18.13	18.13	0.00	1.73	24.06	6.61	4.63	0.99	0.31	29.27	17.09	4.29
3600.0	17.53	17.48	0.05	2.42	24.29	5.93	4.20	0.99	0.33	28.84	16.83	4.40
3800.0	16.92	16.84	0.08	2.48	24.60	5.38	3.90	1.00	0.36	28.63	16.44	4.56
4000.0	16.23	16.15	0.08	2.71	24.86	4.91	3.62	1.00	0.39	28.42	15.92	4.67
4200.0	15.63	15.47	0.16	2.81	25.16	4.56	3.43	1.01	0.42	27.88	15.48	4.93
4400.0	14.94	14.80	0.14	3.01	25.50	4.21	3.26	1.02	0.45	27.97	14.94	5.05
4600.0	14.31	14.13	0.18	3.38	25.84	3.95	3.17	1.04	0.49	27.49	14.62	5.23
4800.0	13.67	13.50	0.17	3.73	26.17	3.74	3.07	1.05	0.52	27.02	14.10	5.46
5000.0	13.08	12.88	0.20	4.14	26.44	3.57	3.06	1.07	0.55	27.12	13.55	5.76
5200.0	12.49	12.28	0.21	4.58	26.72	3.46	3.08	1.09	0.59	26.30	12.92	6.00
5400.0	11.89	11.69	0.20	4.99	26.91	3.40	3.12	1.11	0.63	25.88	12.11	6.18
5600.0	11.33	11.10	0.23	5.47	27.17	3.34	3.17	1.14	0.67	24.78	11.98	6.44
5800.0	10.71	10.53	0.18	6.08	27.23	3.32	3.24	1.18	0.70	24.16	11.20	6.73
6000.0	10.11	9.95	0.16	6.28	27.30	3.30	3.30	1.21	0.73	23.95	10.73	7.06



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) = 64.43 mA and Id2 (A2) = 65.2 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)	(dB)	(Deg)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
10.0	24.60	24.57	0.03	0.10	29.46	11.71	7.01	0.92	0.54	--	17.46	2.15
20.0	23.36	23.37	0.01	0.12	25.95	13.80	9.44	0.89	0.44	34.87	18.47	3.03
30.0	22.65	22.66	0.01	0.11	25.23	15.35	11.83	0.94	0.47	37.29	18.95	2.89
40.0	22.26	22.28	0.02	0.08	25.04	16.29	13.74	0.98	0.50	33.97	18.43	2.87
50.0	22.05	22.06	0.01	0.08	24.94	17.09	15.23	1.00	0.51	33.96	18.20	2.93
60.0	21.87	21.89	0.02	0.10	24.60	17.80	16.38	1.00	0.49	35.41	18.69	2.94
70.0	21.80	21.82	0.02	0.11	24.76	17.99	17.20	1.02	0.51	34.68	18.68	2.93
80.0	21.74	21.76	0.02	0.11	24.71	18.31	17.95	1.02	0.51	35.00	18.44	2.92
90.0	21.70	21.72	0.02	0.11	24.66	18.62	18.52	1.03	0.51	35.27	18.48	2.94
100.0	21.67	21.69	0.02	0.11	24.66	18.84	18.99	1.03	0.51	34.37	18.49	2.94
200.0	21.56	21.58	0.02	0.13	24.59	19.33	21.39	1.04	0.52	34.78	18.14	2.92
400.0	21.52	21.55	0.03	0.19	24.56	17.95	21.63	1.04	0.52	34.43	18.60	3.09
500.0	21.52	21.56	0.04	0.20	24.51	17.88	20.72	1.04	0.50	34.87	18.62	3.11
600.0	21.54	21.57	0.03	0.22	24.50	17.57	19.55	1.04	0.50	35.09	18.58	3.16
800.0	21.56	21.60	0.04	0.24	24.40	17.11	17.58	1.04	0.47	35.30	18.78	3.04
1000.0	21.58	21.62	0.04	0.27	24.25	16.64	15.85	1.03	0.43	34.03	18.62	3.11
1200.0	21.58	21.63	0.05	0.33	24.10	15.64	13.91	1.02	0.39	35.39	19.17	3.07
1400.0	21.56	21.62	0.06	0.27	23.95	14.86	12.24	1.01	0.35	34.71	19.32	2.98
1600.0	21.50	21.55	0.05	0.25	23.78	14.08	10.92	1.00	0.30	34.97	19.58	3.09
1800.0	21.42	21.46	0.04	0.32	23.67	13.23	9.71	0.99	0.26	34.27	19.54	3.11
2000.0	21.28	21.32	0.04	0.45	23.54	12.09	8.56	0.98	0.22	33.40	19.19	3.03
2200.0	21.07	21.12	0.05	0.19	23.45	11.21	7.72	0.97	0.19	33.18	19.19	3.11
2400.0	20.80	20.84	0.04	0.45	23.46	10.16	6.93	0.96	0.18	32.61	19.00	3.11
2600.0	20.54	20.58	0.04	0.00	23.46	9.56	6.40	0.96	0.18	32.06	18.56	3.12
2800.0	20.18	20.20	0.02	0.18	23.46	8.56	5.69	0.95	0.16	31.36	18.26	3.26
3000.0	19.72	19.71	0.01	0.43	23.57	7.51	4.96	0.94	0.15	30.87	17.95	3.23
3200.0	19.18	19.16	0.02	0.24	23.87	6.62	4.36	0.94	0.17	29.95	17.61	3.27
3400.0	18.57	18.55	0.02	0.27	24.08	5.93	3.92	0.95	0.18	29.44	17.27	3.47
3600.0	17.97	17.89	0.08	0.16	24.35	5.30	3.50	0.94	0.20	28.92	16.98	3.49
3800.0	17.35	17.25	0.10	0.23	24.74	4.77	3.17	0.95	0.23	28.48	16.55	3.66
4000.0	16.63	16.52	0.11	0.36	25.09	4.29	2.88	0.95	0.25	28.39	16.09	3.73
4200.0	16.02	15.84	0.18	0.39	25.47	3.95	2.68	0.95	0.28	27.78	15.72	3.96
4400.0	15.37	15.19	0.18	0.53	25.80	3.66	2.54	0.95	0.31	27.75	15.30	4.03
4600.0	14.79	14.56	0.23	0.83	26.09	3.47	2.43	0.95	0.34	27.23	15.02	4.18
4800.0	14.17	13.96	0.21	0.91	26.40	3.27	2.31	0.95	0.36	26.94	14.57	4.33
5000.0	13.62	13.38	0.24	1.43	26.66	3.14	2.27	0.95	0.39	26.95	14.18	4.56
5200.0	13.12	12.88	0.24	1.76	27.03	3.07	2.30	0.96	0.43	26.52	13.54	4.73
5400.0	12.60	12.35	0.25	2.21	27.08	3.05	2.27	0.96	0.45	26.73	12.83	4.83
5600.0	12.08	11.82	0.26	2.39	27.47	2.95	2.26	0.98	0.48	25.53	12.62	5.02
5800.0	11.47	11.26	0.21	3.03	27.39	2.95	2.29	0.99	0.50	25.36	11.81	5.25
6000.0	10.92	10.74	0.18	3.05	27.61	2.92	2.32	1.00	0.54	25.36	11.45	5.50

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) = 55.82 mA and Id2 (A2) = 56.5 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)	(dB)	(Deg)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
10.0	24.45	24.44	0.01	0.31	29.02	11.66	6.90	0.91	0.51	--	16.48	2.13
20.0	23.23	23.25	0.02	0.13	26.00	13.76	9.29	0.90	0.46	32.92	17.15	2.94
30.0	22.52	22.54	0.02	0.11	25.27	15.45	11.68	0.95	0.49	33.18	17.54	2.90
40.0	22.13	22.16	0.03	0.09	24.90	16.60	13.51	0.98	0.49	32.28	16.91	2.84
50.0	21.92	21.95	0.03	0.08	24.80	17.43	14.95	1.00	0.51	32.16	16.65	2.93
60.0	21.75	21.77	0.02	0.12	24.48	18.36	16.02	1.00	0.48	32.89	17.17	2.88
70.0	21.68	21.71	0.03	0.14	24.67	18.59	16.86	1.02	0.51	32.63	17.18	2.85
80.0	21.62	21.65	0.03	0.15	24.57	18.99	17.51	1.02	0.51	32.80	16.88	2.85
90.0	21.57	21.61	0.04	0.15	24.56	19.34	18.04	1.03	0.51	32.50	16.93	2.88
100.0	21.55	21.58	0.03	0.14	24.55	19.62	18.48	1.03	0.51	31.77	16.95	2.91
200.0	21.44	21.47	0.03	0.17	24.50	20.33	20.61	1.04	0.52	32.27	16.60	2.85
400.0	21.40	21.44	0.04	0.27	24.42	18.77	21.11	1.04	0.51	32.83	17.10	3.05
500.0	21.41	21.45	0.04	0.28	24.36	18.75	20.29	1.04	0.50	32.64	17.06	3.05
600.0	21.42	21.47	0.05	0.32	24.35	18.40	19.24	1.04	0.49	32.69	17.07	3.11
800.0	21.45	21.50	0.05	0.35	24.24	17.88	17.44	1.03	0.46	33.42	17.31	2.93
1000.0	21.48	21.53	0.05	0.37	24.08	17.33	15.77	1.03	0.43	32.07	17.13	3.07
1200.0	21.48	21.54	0.06	0.45	23.94	16.24	13.89	1.02	0.39	33.67	17.78	3.04
1400.0	21.47	21.53	0.06	0.43	23.76	15.37	12.24	1.01	0.34	32.47	17.99	2.94
1600.0	21.40	21.47	0.07	0.40	23.64	14.52	10.92	1.00	0.30	33.18	18.52	3.04
1800.0	21.33	21.38	0.05	0.51	23.52	13.58	9.71	0.99	0.25	32.94	18.63	3.05
2000.0	21.19	21.24	0.05	0.66	23.40	12.34	8.56	0.97	0.21	32.46	18.38	2.97
2200.0	20.99	21.04	0.05	0.41	23.32	11.39	7.71	0.96	0.19	32.15	18.51	3.04
2400.0	20.72	20.76	0.04	0.68	23.31	10.30	6.93	0.95	0.18	31.71	18.39	3.03
2600.0	20.46	20.50	0.04	0.27	23.30	9.66	6.39	0.95	0.17	31.39	17.98	3.06
2800.0	20.10	20.12	0.02	0.47	23.28	8.63	5.68	0.94	0.15	30.53	17.71	3.23
3000.0	19.64	19.63	0.01	0.72	23.42	7.57	4.94	0.94	0.15	30.21	17.42	3.16
3200.0	19.09	19.08	0.01	0.54	23.65	6.66	4.35	0.93	0.16	29.26	17.10	3.26
3400.0	18.47	18.47	0.00	0.07	23.96	5.97	3.90	0.94	0.19	28.73	16.76	3.41
3600.0	17.87	17.80	0.07	0.53	24.26	5.33	3.49	0.94	0.21	28.18	16.47	3.44
3800.0	17.24	17.15	0.09	0.61	24.59	4.79	3.16	0.94	0.23	27.70	16.06	3.57
4000.0	16.52	16.42	0.10	0.75	24.94	4.32	2.87	0.94	0.25	27.64	15.58	3.67
4200.0	15.91	15.73	0.18	0.77	25.37	3.97	2.68	0.94	0.28	27.04	15.22	3.88
4400.0	15.25	15.08	0.17	0.94	25.60	3.69	2.53	0.94	0.31	27.06	14.84	3.95
4600.0	14.67	14.45	0.22	1.30	25.94	3.49	2.43	0.95	0.34	26.52	14.54	4.08
4800.0	14.04	13.84	0.20	1.41	26.23	3.30	2.31	0.94	0.36	26.25	14.08	4.21
5000.0	13.49	13.26	0.23	1.93	26.57	3.16	2.27	0.95	0.39	26.25	13.72	4.47
5200.0	12.99	12.75	0.24	2.27	26.89	3.08	2.29	0.95	0.44	25.81	13.07	4.63
5400.0	12.46	12.22	0.24	2.76	27.01	3.07	2.27	0.96	0.45	25.99	12.45	4.71
5600.0	11.94	11.69	0.25	2.98	27.36	2.97	2.25	0.97	0.48	24.63	12.18	4.89
5800.0	11.33	11.12	0.21	3.68	27.29	2.97	2.28	0.99	0.50	24.47	11.44	5.13
6000.0	10.77	10.60	0.17	3.69	27.47	2.94	2.31	0.99	0.53	24.47	11.02	5.38

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 =5.25V, Id1 A1) = 75.15 mA and Id2 (A2) =75.9 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)	(dB)	(Deg)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)
10.0	24.69	24.68	0.01	0.08	27.70	12.03	6.92	0.88	0.35	--	18.55	2.28
20.0	23.47	23.48	0.01	0.19	26.10	13.76	9.54	0.89	0.46	41.24	19.58	3.09
30.0	22.75	22.76	0.01	0.14	25.39	15.20	12.00	0.94	0.48	41.56	20.17	3.02
40.0	22.36	22.38	0.02	0.12	25.09	16.02	13.88	0.97	0.50	36.65	19.99	3.00
50.0	22.14	22.16	0.02	0.11	24.82	16.66	15.41	0.99	0.49	36.36	19.70	3.06
60.0	21.96	21.98	0.02	0.16	25.10	17.25	16.55	1.02	0.54	38.52	20.06	3.04
70.0	21.89	21.91	0.02	0.17	24.89	17.44	17.50	1.02	0.52	37.00	19.98	2.99
80.0	21.83	21.86	0.03	0.19	24.83	17.73	18.27	1.02	0.52	36.96	19.92	3.02
90.0	21.79	21.81	0.02	0.19	24.82	17.97	18.89	1.03	0.52	37.37	19.93	3.07
100.0	21.76	21.78	0.02	0.19	24.79	18.20	19.43	1.03	0.52	36.61	19.93	3.04
200.0	21.65	21.68	0.03	0.27	24.73	18.58	21.99	1.04	0.53	36.70	19.69	3.04
400.0	21.60	21.64	0.04	0.44	24.66	17.31	22.02	1.04	0.52	38.01	19.98	3.23
500.0	21.61	21.65	0.04	0.50	24.66	17.26	21.02	1.04	0.51	36.44	20.02	3.24
600.0	21.62	21.66	0.04	0.57	24.56	16.96	19.83	1.04	0.50	36.86	20.02	3.27
800.0	21.64	21.69	0.05	0.71	24.46	16.55	17.70	1.04	0.47	37.40	20.16	3.12
1000.0	21.66	21.71	0.05	0.82	24.36	16.11	15.96	1.03	0.44	36.24	20.08	3.22
1200.0	21.65	21.71	0.06	0.97	24.22	15.20	13.98	1.02	0.40	36.98	20.44	3.21
1400.0	21.63	21.69	0.06	1.06	24.04	14.46	12.28	1.01	0.35	36.55	20.55	3.06
1600.0	21.57	21.63	0.06	1.09	23.93	13.76	10.97	1.00	0.31	36.44	20.55	3.15
1800.0	21.48	21.54	0.06	1.28	23.84	12.95	9.76	0.99	0.27	35.04	20.38	3.20
2000.0	21.35	21.40	0.05	1.52	23.66	11.88	8.61	0.98	0.22	34.25	19.94	3.12
2200.0	21.14	21.20	0.06	1.34	23.60	11.04	7.78	0.97	0.20	33.91	19.86	3.20
2400.0	20.87	20.91	0.04	1.69	23.60	10.04	6.99	0.97	0.19	33.17	19.59	3.20
2600.0	20.61	20.66	0.05	1.39	23.56	9.46	6.46	0.96	0.18	32.79	19.11	3.19
2800.0	20.26	20.28	0.02	1.67	23.61	8.49	5.76	0.95	0.17	31.83	18.78	3.38
3000.0	19.80	19.79	0.01	2.02	23.71	7.45	5.01	0.95	0.16	31.60	18.47	3.32
3200.0	19.26	19.25	0.01	1.95	23.94	6.57	4.42	0.95	0.17	30.58	18.15	3.35
3400.0	18.65	18.65	0.00	1.52	24.25	5.88	3.96	0.95	0.20	30.20	17.80	3.56
3600.0	18.05	17.99	0.06	2.07	24.54	5.25	3.54	0.95	0.21	29.60	17.53	3.61
3800.0	17.43	17.35	0.08	2.23	24.88	4.73	3.21	0.95	0.24	29.36	17.09	3.73
4000.0	16.71	16.63	0.08	2.43	25.22	4.25	2.91	0.96	0.26	29.14	16.60	3.89
4200.0	16.11	15.95	0.16	2.53	25.55	3.91	2.73	0.96	0.29	28.50	16.27	4.09
4400.0	15.47	15.31	0.16	2.75	25.90	3.62	2.58	0.96	0.32	28.47	15.86	4.17
4600.0	14.90	14.69	0.21	3.16	26.14	3.44	2.47	0.96	0.34	28.01	15.56	4.30
4800.0	14.28	14.09	0.19	3.33	26.57	3.24	2.35	0.96	0.37	27.69	15.07	4.47
5000.0	13.74	13.52	0.22	3.93	26.80	3.11	2.31	0.96	0.40	27.65	14.69	4.71
5200.0	13.25	13.02	0.23	4.39	27.09	3.04	2.35	0.97	0.44	27.16	14.02	4.94
5400.0	12.73	12.49	0.24	4.95	27.15	3.02	2.32	0.97	0.46	27.54	13.35	4.99
5600.0	12.22	11.96	0.26	5.28	27.57	2.92	2.30	0.99	0.49	26.48	13.09	5.21
5800.0	11.61	11.40	0.21	6.09	27.43	2.92	2.35	1.00	0.51	26.36	12.30	5.42
6000.0	11.05	10.89	0.16	6.22	27.59	2.89	2.38	1.00	0.55	26.34	11.88	5.71

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) = 73.84 mA and Id2 (A2) = 73.75 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)	(dB)	(Deg)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
10.0	24.28	24.28	0.00	0.25	26.87	11.72	6.53	0.87	0.27	--	17.98	3.32
20.0	23.08	23.08	0.00	0.37	25.73	13.66	9.18	0.89	0.44	36.26	19.07	4.17
30.0	22.36	22.38	0.02	0.24	25.07	15.57	11.65	0.95	0.48	36.80	19.67	4.16
40.0	21.98	22.00	0.02	0.16	24.76	16.77	13.59	0.98	0.49	34.41	19.59	4.11
50.0	21.76	21.78	0.02	0.14	24.51	17.75	15.09	1.00	0.49	35.04	19.24	4.19
60.0	21.58	21.61	0.03	0.15	24.76	18.19	16.30	1.02	0.54	36.77	19.57	4.15
70.0	21.51	21.53	0.02	0.17	24.51	18.41	17.37	1.02	0.52	35.94	19.49	4.14
80.0	21.45	21.47	0.02	0.17	24.49	18.62	18.26	1.03	0.52	35.74	19.48	4.16
90.0	21.40	21.42	0.02	0.19	24.47	18.79	18.96	1.03	0.52	36.27	19.48	4.21
100.0	21.37	21.39	0.02	0.20	24.44	18.89	19.60	1.04	0.52	35.28	19.48	4.17
200.0	21.23	21.25	0.02	0.34	24.42	18.85	22.10	1.05	0.54	36.13	19.37	4.19
400.0	21.18	21.21	0.03	0.60	24.34	19.47	21.50	1.05	0.53	36.92	19.51	4.38
500.0	21.17	21.20	0.03	0.73	24.38	19.30	21.02	1.05	0.53	35.73	19.57	4.40
600.0	21.17	21.21	0.04	0.88	24.23	19.15	20.41	1.05	0.51	36.05	19.54	4.43
800.0	21.17	21.22	0.05	1.09	24.19	19.00	18.93	1.05	0.49	35.95	19.64	4.27
1000.0	21.17	21.22	0.05	1.34	24.00	18.70	17.33	1.04	0.46	34.02	19.64	4.40
1200.0	21.15	21.20	0.05	1.57	23.85	18.35	15.73	1.04	0.43	35.15	19.85	4.34
1400.0	21.11	21.16	0.05	1.82	23.71	17.77	14.07	1.03	0.40	33.93	19.78	4.24
1600.0	21.02	21.07	0.05	1.97	23.51	16.99	12.66	1.02	0.36	33.61	19.55	4.34
1800.0	20.88	20.92	0.04	2.33	23.39	15.69	11.18	1.01	0.33	33.03	19.22	4.35
2000.0	20.70	20.73	0.03	2.65	23.25	14.35	9.92	1.00	0.30	32.26	18.60	4.29
2200.0	20.42	20.46	0.04	2.65	23.17	13.20	8.98	1.00	0.29	31.60	18.43	4.33
2400.0	20.08	20.10	0.02	3.11	23.20	11.87	8.06	0.99	0.30	31.09	18.07	4.38
2600.0	19.71	19.74	0.03	2.95	23.21	10.93	7.40	0.99	0.31	30.54	17.50	4.43
2800.0	19.27	19.28	0.01	3.35	23.27	9.78	6.65	0.99	0.31	29.81	17.17	4.61
3000.0	18.78	18.75	0.03	3.83	23.37	8.76	6.03	0.99	0.33	29.47	16.81	4.56
3200.0	18.24	18.22	0.02	3.93	23.54	7.95	5.55	1.00	0.36	28.75	16.49	4.61
3400.0	17.59	17.63	0.04	4.01	23.72	7.11	5.08	1.01	0.38	28.26	16.14	4.79
3600.0	17.02	16.97	0.05	4.48	23.97	6.46	4.72	1.02	0.41	27.87	15.88	4.86
3800.0	16.39	16.32	0.07	4.62	24.22	5.89	4.41	1.03	0.44	27.55	15.46	5.03
4000.0	15.69	15.62	0.07	5.00	24.50	5.36	4.15	1.04	0.47	27.13	14.92	5.23
4200.0	15.02	14.93	0.09	5.12	24.78	4.95	3.94	1.05	0.51	26.69	14.45	5.46
4400.0	14.32	14.22	0.10	5.54	25.16	4.58	3.79	1.07	0.55	26.64	13.87	5.61
4600.0	13.68	13.52	0.16	5.95	25.39	4.32	3.72	1.09	0.59	25.99	13.53	5.80
4800.0	13.01	12.84	0.17	6.36	25.78	4.10	3.67	1.12	0.63	25.37	13.03	6.05
5000.0	12.36	12.18	0.18	6.79	26.07	3.91	3.68	1.14	0.67	25.39	12.39	6.38
5200.0	11.73	11.51	0.22	7.16	26.35	3.75	3.70	1.18	0.71	24.41	11.82	6.66
5400.0	11.10	10.90	0.20	7.93	26.57	3.66	3.78	1.22	0.75	23.71	11.00	6.88
5600.0	10.50	10.28	0.22	8.49	26.61	3.62	3.88	1.27	0.78	22.94	10.88	7.14
5800.0	9.86	9.64	0.22	9.19	26.94	3.57	3.95	1.35	0.82	22.29	10.12	7.42
6000.0	9.20	9.00	0.20	9.46	27.00	3.54	4.00	1.40	0.84	21.97	9.62	7.81

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) = 62.18 mA and Id2 (A2) = 62.08 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)
10.0	24.10	24.06	0.04	0.17	28.69	11.22	6.53	0.90	0.49	--	16.81	3.19
20.0	22.91	22.92	0.01	0.36	25.68	13.56	9.02	0.90	0.45	33.69	17.89	4.03
30.0	22.20	22.23	0.03	0.25	24.88	15.67	11.39	0.94	0.47	34.01	18.41	4.00
40.0	21.82	21.85	0.03	0.15	24.63	17.08	13.25	0.98	0.49	32.84	18.02	4.01
50.0	21.61	21.64	0.03	0.13	24.62	18.21	14.74	1.00	0.51	33.19	17.78	4.07
60.0	21.43	21.47	0.04	0.16	24.17	18.96	15.92	1.01	0.48	33.63	18.19	4.05
70.0	21.36	21.39	0.03	0.16	24.38	19.26	16.83	1.02	0.51	33.33	18.16	4.04
80.0	21.30	21.33	0.03	0.18	24.31	19.55	17.65	1.03	0.51	32.81	18.03	4.04
90.0	21.25	21.29	0.04	0.18	24.28	19.76	18.32	1.03	0.52	33.40	18.06	4.08
100.0	21.22	21.25	0.03	0.19	24.30	19.93	18.89	1.04	0.52	32.15	18.06	4.09
200.0	21.08	21.12	0.04	0.35	24.24	20.03	21.13	1.05	0.53	33.05	17.83	4.10
400.0	21.03	21.08	0.05	0.55	24.22	20.81	20.58	1.05	0.52	33.32	18.09	4.24
500.0	21.03	21.08	0.05	0.71	24.19	20.59	20.23	1.05	0.52	33.20	18.09	4.27
600.0	21.03	21.08	0.05	0.81	24.12	20.37	19.74	1.05	0.51	33.17	18.07	4.35
800.0	21.04	21.10	0.06	1.03	24.03	20.15	18.49	1.05	0.49	33.98	18.24	4.17
1000.0	21.04	21.10	0.06	1.25	23.86	19.82	17.03	1.04	0.46	32.21	18.19	4.31
1200.0	21.03	21.10	0.07	1.46	23.69	19.43	15.56	1.03	0.42	33.76	18.54	4.24
1400.0	21.00	21.06	0.06	1.67	23.50	18.71	13.97	1.02	0.39	32.46	18.62	4.14
1600.0	20.92	20.98	0.06	1.84	23.36	17.74	12.59	1.02	0.36	32.67	18.61	4.21
1800.0	20.78	20.84	0.06	2.16	23.24	16.26	11.15	1.01	0.33	31.97	18.42	4.26
2000.0	20.60	20.65	0.05	2.50	23.09	14.71	9.89	1.00	0.30	31.57	17.89	4.19
2200.0	20.33	20.39	0.06	2.47	23.02	13.46	8.96	0.99	0.29	31.13	17.77	4.25
2400.0	19.99	20.03	0.04	2.89	22.99	12.05	8.01	0.99	0.29	30.38	17.48	4.26
2600.0	19.62	19.68	0.06	2.70	23.06	11.05	7.36	0.99	0.30	30.06	16.94	4.27
2800.0	19.18	19.21	0.03	3.06	23.09	9.87	6.61	0.98	0.31	29.34	16.62	4.46
3000.0	18.69	18.69	0.00	3.50	23.17	8.83	6.00	0.98	0.32	29.09	16.30	4.43
3200.0	18.15	18.16	0.01	3.59	23.38	7.98	5.51	0.99	0.35	28.35	15.97	4.49
3400.0	17.49	17.56	0.07	3.63	23.57	7.14	5.04	1.00	0.38	27.79	15.65	4.66
3600.0	16.92	16.90	0.02	4.10	23.83	6.50	4.67	1.01	0.41	27.37	15.39	4.74
3800.0	16.29	16.25	0.04	4.23	24.09	5.91	4.36	1.02	0.44	26.98	14.97	4.88
4000.0	15.59	15.55	0.04	4.53	24.41	5.38	4.10	1.03	0.47	26.57	14.45	5.05
4200.0	14.92	14.85	0.07	4.63	24.70	4.97	3.89	1.05	0.50	26.18	14.00	5.28
4400.0	14.21	14.15	0.06	5.08	25.02	4.60	3.74	1.06	0.54	26.12	13.44	5.40
4600.0	13.56	13.44	0.12	5.50	25.30	4.34	3.66	1.08	0.58	25.48	13.09	5.63
4800.0	12.89	12.76	0.13	5.85	25.65	4.12	3.60	1.10	0.62	24.86	12.59	5.85
5000.0	12.24	12.10	0.14	6.24	25.97	3.93	3.60	1.13	0.66	24.93	11.93	6.14
5200.0	11.60	11.43	0.17	6.56	26.30	3.77	3.62	1.16	0.70	23.90	11.41	6.40
5400.0	10.97	10.81	0.16	7.29	26.55	3.68	3.69	1.20	0.74	23.24	10.62	6.63
5600.0	10.37	10.20	0.17	7.84	26.57	3.65	3.78	1.25	0.78	22.41	10.39	6.92
5800.0	9.72	9.56	0.16	8.49	26.85	3.59	3.84	1.33	0.80	21.69	9.68	7.16
6000.0	9.07	8.92	0.15	8.71	26.92	3.56	3.88	1.38	0.83	21.37	9.19	7.53

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) = 84.6 mA and Id2 (A2) = 84.47 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)	(dB)	(Deg)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)
10.0	24.38	24.38	0.00	0.02	28.71	11.29	6.53	0.89	0.47	--	18.91	3.42
20.0	23.18	23.18	0.00	0.42	25.92	13.78	9.33	0.90	0.46	40.45	19.95	4.30
30.0	22.45	22.47	0.02	0.26	25.21	15.53	11.84	0.95	0.49	38.89	20.57	4.24
40.0	22.06	22.08	0.02	0.17	24.89	16.56	13.79	0.98	0.50	37.71	20.63	4.26
50.0	21.85	21.86	0.01	0.14	24.95	17.39	15.34	1.01	0.53	37.86	20.26	4.31
60.0	21.67	21.69	0.02	0.18	24.45	17.79	16.66	1.01	0.49	38.43	20.53	4.29
70.0	21.59	21.61	0.02	0.18	24.65	17.94	17.66	1.02	0.53	37.83	20.44	4.28
80.0	21.53	21.55	0.02	0.19	24.56	18.10	18.61	1.03	0.52	38.32	20.47	4.28
90.0	21.48	21.50	0.02	0.19	24.57	18.18	19.39	1.03	0.53	39.46	20.47	4.31
100.0	21.45	21.47	0.02	0.20	24.56	18.29	20.05	1.04	0.53	37.79	20.46	4.32
200.0	21.31	21.33	0.02	0.35	24.50	18.21	22.74	1.05	0.54	39.11	20.45	4.26
400.0	21.25	21.28	0.03	0.61	24.51	18.85	22.19	1.06	0.54	38.10	20.53	4.49
500.0	21.24	21.28	0.04	0.74	24.42	18.63	21.63	1.05	0.53	37.94	20.60	4.47
600.0	21.24	21.28	0.04	0.87	24.37	18.45	20.90	1.05	0.52	36.89	20.57	4.59
800.0	21.24	21.29	0.05	1.11	24.25	18.37	19.34	1.05	0.49	37.23	20.67	4.40
1000.0	21.24	21.28	0.04	1.32	24.12	18.11	17.66	1.04	0.47	35.31	20.69	4.53
1200.0	21.21	21.26	0.05	1.57	23.96	17.82	16.00	1.04	0.44	35.36	20.73	4.47
1400.0	21.17	21.21	0.04	1.78	23.79	17.32	14.27	1.03	0.40	33.97	20.57	4.39
1600.0	21.07	21.12	0.05	1.97	23.60	16.65	12.81	1.02	0.37	33.63	20.19	4.47
1800.0	20.93	20.96	0.03	2.32	23.50	15.48	11.32	1.02	0.34	32.78	19.75	4.49
2000.0	20.74	20.76	0.02	2.67	23.36	14.21	10.03	1.01	0.31	31.95	19.06	4.45
2200.0	20.45	20.49	0.04	2.66	23.24	13.15	9.10	1.00	0.30	31.44	18.86	4.51
2400.0	20.11	20.13	0.02	3.12	23.25	11.86	8.15	1.00	0.30	30.82	18.44	4.51
2600.0	19.74	19.77	0.03	2.95	23.28	10.93	7.51	1.00	0.31	30.31	17.83	4.56
2800.0	19.29	19.30	0.01	3.34	23.34	9.80	6.75	1.00	0.32	29.87	17.49	4.78
3000.0	18.80	18.77	0.03	3.86	23.42	8.80	6.14	1.00	0.34	29.54	17.11	4.71
3200.0	18.27	18.24	0.03	3.98	23.59	7.96	5.65	1.01	0.36	28.84	16.79	4.77
3400.0	17.61	17.65	0.04	4.04	23.73	7.13	5.19	1.02	0.39	28.38	16.45	4.94
3600.0	17.05	16.99	0.06	4.53	24.02	6.48	4.82	1.03	0.42	27.93	16.18	5.03
3800.0	16.42	16.34	0.08	4.71	24.27	5.90	4.52	1.04	0.45	27.63	15.79	5.23
4000.0	15.71	15.64	0.07	5.04	24.57	5.36	4.26	1.06	0.49	27.20	15.22	5.43
4200.0	15.05	14.95	0.10	5.11	24.83	4.95	4.05	1.07	0.52	26.74	14.73	5.65
4400.0	14.35	14.24	0.11	5.55	25.12	4.57	3.91	1.08	0.56	26.62	14.15	5.79
4600.0	13.70	13.54	0.16	6.00	25.42	4.31	3.85	1.11	0.60	26.04	13.84	6.03
4800.0	13.03	12.87	0.16	6.35	25.79	4.08	3.80	1.13	0.64	25.42	13.31	6.31
5000.0	12.38	12.21	0.17	6.78	26.03	3.88	3.81	1.16	0.69	25.36	12.68	6.58
5200.0	11.75	11.54	0.21	7.16	26.43	3.73	3.84	1.20	0.73	24.48	12.17	6.95
5400.0	11.12	10.92	0.20	7.89	26.55	3.63	3.93	1.23	0.77	23.82	11.33	7.15
5600.0	10.52	10.31	0.21	8.44	26.60	3.59	4.04	1.28	0.81	23.09	11.19	7.40
5800.0	9.87	9.66	0.21	9.15	26.89	3.54	4.11	1.36	0.84	22.46	10.46	7.75
6000.0	9.22	9.02	0.20	9.43	26.83	3.50	4.17	1.40	0.86	22.15	9.97	8.10