

## 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) = 82.19 mA and Id2 (A2) = 81.91 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	16.96	17.00	0.04	0.02	22.92	21.00	11.26	1.14	0.70	--	19.54	4.37
20.0	16.92	16.93	0.01	0.04	22.76	19.89	11.63	1.13	0.71	40.57	19.38	4.79
30.0	16.82	16.83	0.01	0.02	22.56	18.97	12.02	1.13	0.71	37.75	19.88	4.70
40.0	16.70	16.71	0.01	0.00	22.39	18.17	12.46	1.12	0.72	41.26	20.26	4.62
50.0	16.60	16.60	0.00	0.01	22.43	17.60	12.92	1.14	0.73	41.56	20.03	4.69
60.0	16.46	16.47	0.01	0.06	22.15	17.07	13.36	1.13	0.73	40.10	20.06	4.65
70.0	16.37	16.38	0.01	0.07	22.08	16.70	13.78	1.13	0.74	38.48	20.07	4.65
80.0	16.29	16.29	0.00	0.07	21.96	16.41	14.18	1.13	0.74	38.48	20.16	4.68
90.0	16.22	16.23	0.01	0.07	21.90	16.19	14.53	1.14	0.75	39.57	20.19	4.75
100.0	16.16	16.17	0.01	0.07	21.86	16.01	14.82	1.14	0.75	38.41	20.14	4.76
200.0	15.90	15.91	0.01	0.09	21.60	15.24	16.56	1.15	0.76	38.71	20.21	4.70
400.0	15.81	15.82	0.01	0.12	21.51	14.78	17.55	1.15	0.77	39.66	20.14	4.90
600.0	15.80	15.80	0.00	0.18	21.55	14.29	18.41	1.16	0.78	38.76	20.15	4.98
800.0	15.82	15.82	0.00	0.18	21.53	13.75	19.18	1.15	0.78	38.50	20.12	4.94
1000.0	15.85	15.85	0.00	0.25	21.51	13.26	20.05	1.15	0.78	37.16	20.20	5.00
1200.0	15.88	15.88	0.00	0.29	21.55	12.74	20.70	1.15	0.79	37.30	20.06	5.03
1400.0	15.93	15.92	0.01	0.35	21.55	12.26	21.03	1.14	0.79	36.19	20.08	5.07
1600.0	15.99	15.97	0.02	0.44	21.55	11.79	20.78	1.14	0.78	35.67	19.90	5.06
1800.0	16.02	16.01	0.01	0.59	21.63	11.28	20.23	1.14	0.78	34.95	19.98	5.09
2000.0	16.10	16.08	0.02	0.57	21.60	10.88	18.69	1.13	0.77	34.94	19.79	5.10
2200.0	16.15	16.12	0.03	0.66	21.60	10.41	17.18	1.12	0.76	33.11	19.18	5.18
2400.0	16.15	16.16	0.01	0.78	21.62	9.85	15.75	1.12	0.75	32.89	19.21	5.21
2600.0	16.19	16.16	0.03	0.77	21.69	9.30	14.15	1.11	0.74	32.10	18.74	5.36
2800.0	16.17	16.14	0.03	0.89	21.71	8.61	12.46	1.10	0.72	30.90	18.37	5.49
3000.0	16.11	16.08	0.03	1.20	21.80	7.90	10.88	1.09	0.70	30.54	18.00	5.47
3200.0	15.99	15.95	0.04	1.15	21.96	7.18	9.37	1.09	0.68	29.29	17.29	5.65
3400.0	15.77	15.77	0.00	1.24	22.12	6.44	8.02	1.08	0.65	28.61	16.98	5.70
3600.0	15.51	15.50	0.01	1.38	22.29	5.81	6.78	1.07	0.60	27.85	16.38	5.86
3800.0	15.14	15.15	0.01	1.62	22.56	5.23	5.69	1.05	0.56	27.40	15.94	6.04
4000.0	14.73	14.73	0.00	1.81	22.85	4.74	4.86	1.04	0.53	27.18	15.55	6.13
4200.0	14.28	14.28	0.00	1.58	23.16	4.38	4.17	1.03	0.49	26.27	14.84	6.27
4400.0	13.76	13.76	0.00	1.62	23.54	4.07	3.62	1.02	0.47	26.00	14.30	6.51
4600.0	13.26	13.26	0.00	1.66	23.75	3.86	3.23	1.01	0.45	25.38	13.81	6.76
4800.0	12.71	12.75	0.04	1.87	24.02	3.69	2.89	1.00	0.43	25.07	13.34	6.83
5000.0	12.22	12.22	0.00	1.88	24.23	3.63	2.70	1.00	0.43	24.54	12.71	7.11
5200.0	11.70	11.78	0.08	2.08	24.50	3.53	2.52	1.00	0.42	24.23	12.35	7.10
5400.0	11.21	11.23	0.02	2.25	24.26	3.64	2.52	1.01	0.43	24.40	11.68	7.42
5600.0	10.63	10.73	0.10	2.19	24.62	3.61	2.46	1.01	0.46	22.72	11.51	7.30
5800.0	10.07	10.19	0.12	1.90	24.70	3.63	2.47	1.02	0.49	22.82	11.06	7.72
6000.0	9.50	9.66	0.16	2.08	24.72	3.67	2.50	1.05	0.51	22.49	10.55	7.90



## 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, Id1 (A1) = 73.65 mA and Id2 (A2) = 73.59 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)
10.0	16.94	16.92	0.02	0.13	23.63	20.77	11.55	1.20	0.75	--	19.02	4.36
20.0	16.88	16.88	0.00	0.02	22.82	20.27	11.54	1.14	0.71	36.90	18.64	4.76
30.0	16.77	16.78	0.01	0.01	22.58	19.34	11.91	1.13	0.71	37.34	19.13	4.65
40.0	16.65	16.66	0.01	0.01	22.42	18.49	12.36	1.13	0.72	38.33	19.48	4.57
50.0	16.55	16.55	0.00	0.02	22.35	17.87	12.81	1.14	0.73	37.13	19.25	4.65
60.0	16.42	16.42	0.00	0.05	22.00	17.37	13.21	1.12	0.72	36.92	19.27	4.65
70.0	16.33	16.33	0.00	0.05	22.00	16.94	13.65	1.13	0.74	37.06	19.27	4.66
80.0	16.24	16.25	0.01	0.06	21.90	16.66	14.03	1.13	0.74	37.19	19.35	4.65
90.0	16.18	16.18	0.00	0.08	21.86	16.43	14.37	1.14	0.74	37.52	19.36	4.71
100.0	16.12	16.12	0.00	0.06	21.78	16.25	14.67	1.14	0.75	36.77	19.34	4.69
200.0	15.85	15.86	0.01	0.10	21.54	15.46	16.38	1.15	0.76	37.10	19.36	4.65
400.0	15.77	15.77	0.00	0.12	21.52	14.98	17.36	1.16	0.77	38.19	19.30	4.88
600.0	15.76	15.76	0.00	0.18	21.49	14.48	18.18	1.16	0.77	37.16	19.29	4.99
800.0	15.77	15.77	0.00	0.21	21.47	13.94	18.93	1.15	0.78	37.63	19.31	4.91
1000.0	15.81	15.81	0.00	0.27	21.47	13.41	19.75	1.15	0.78	36.04	19.33	4.94
1200.0	15.84	15.84	0.00	0.31	21.50	12.89	20.33	1.15	0.78	36.14	19.25	5.03
1400.0	15.89	15.88	0.01	0.38	21.48	12.41	20.67	1.14	0.78	35.55	19.28	5.04
1600.0	15.94	15.93	0.01	0.48	21.52	11.94	20.41	1.14	0.78	35.14	19.23	5.03
1800.0	15.98	15.97	0.01	0.64	21.53	11.43	19.86	1.14	0.78	34.60	19.36	5.02
2000.0	16.05	16.03	0.02	0.63	21.53	11.01	18.36	1.13	0.77	34.11	19.20	5.09
2200.0	16.10	16.07	0.03	0.72	21.54	10.53	16.92	1.12	0.76	32.61	18.67	5.13
2400.0	16.11	16.11	0.00	0.86	21.57	9.97	15.50	1.12	0.75	32.40	18.70	5.13
2600.0	16.14	16.11	0.03	0.83	21.56	9.41	13.92	1.11	0.73	31.73	18.24	5.35
2800.0	16.12	16.09	0.03	0.97	21.66	8.72	12.27	1.10	0.71	30.47	17.87	5.47
3000.0	16.05	16.02	0.03	1.28	21.73	7.99	10.71	1.09	0.69	30.02	17.50	5.45
3200.0	15.93	15.88	0.05	1.22	21.86	7.26	9.24	1.09	0.66	28.73	16.77	5.56
3400.0	15.70	15.69	0.01	1.29	22.01	6.50	7.89	1.08	0.63	27.98	16.47	5.66
3600.0	15.43	15.41	0.02	1.45	22.23	5.87	6.68	1.07	0.60	27.23	15.86	5.80
3800.0	15.05	15.05	0.00	1.69	22.48	5.28	5.61	1.05	0.55	26.73	15.43	5.99
4000.0	14.63	14.62	0.01	1.89	22.76	4.80	4.78	1.04	0.52	26.49	15.07	6.12
4200.0	14.16	14.15	0.01	1.66	23.09	4.43	4.11	1.03	0.48	25.69	14.33	6.22
4400.0	13.63	13.62	0.01	1.68	23.43	4.12	3.58	1.02	0.46	25.33	13.80	6.43
4600.0	13.12	13.11	0.01	1.76	23.65	3.91	3.19	1.01	0.44	24.73	13.32	6.75
4800.0	12.57	12.59	0.02	1.95	23.95	3.74	2.86	1.00	0.43	24.40	12.83	6.77
5000.0	12.07	12.05	0.02	2.01	24.10	3.67	2.68	1.00	0.42	23.87	12.24	7.05
5200.0	11.54	11.60	0.06	2.18	24.41	3.58	2.51	1.00	0.42	23.55	11.85	7.01
5400.0	11.05	11.05	0.00	2.38	24.14	3.68	2.51	1.00	0.43	23.72	11.21	7.32
5600.0	10.47	10.54	0.07	2.33	24.52	3.65	2.46	1.01	0.46	22.02	11.03	7.24
5800.0	9.91	10.00	0.09	2.10	24.53	3.66	2.47	1.01	0.49	22.11	10.59	7.65
6000.0	9.34	9.47	0.13	2.26	24.62	3.70	2.50	1.05	0.51	21.76	10.13	7.86

## 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) = 90.94mA and Id2 (A2) = 91.01 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	17.00	17.01	0.01	0.16	23.51	20.56	11.74	1.19	0.74	--	20.18	4.48
20.0	16.96	16.96	0.00	0.02	22.80	19.59	11.70	1.13	0.71	40.96	20.06	4.85
30.0	16.85	16.85	0.00	0.01	22.75	18.74	12.11	1.14	0.72	41.14	20.57	4.77
40.0	16.73	16.73	0.00	0.01	22.53	17.97	12.54	1.13	0.73	39.01	20.99	4.70
50.0	16.63	16.63	0.00	0.02	22.34	17.35	13.01	1.13	0.73	41.55	20.76	4.78
60.0	16.49	16.49	0.00	0.04	22.07	16.82	13.43	1.12	0.73	42.00	20.77	4.77
70.0	16.40	16.40	0.00	0.04	22.11	16.50	13.88	1.13	0.74	40.99	20.77	4.77
80.0	16.32	16.32	0.00	0.04	21.98	16.21	14.27	1.13	0.75	38.97	20.87	4.75
90.0	16.25	16.25	0.00	0.04	21.93	15.98	14.61	1.14	0.75	40.77	20.90	4.84
100.0	16.19	16.19	0.00	0.05	21.84	15.82	14.91	1.13	0.75	39.83	20.84	4.83
200.0	15.93	15.93	0.00	0.07	21.59	15.07	16.70	1.15	0.76	41.00	20.94	4.74
400.0	15.84	15.84	0.00	0.10	21.52	14.61	17.74	1.15	0.77	40.61	20.84	4.99
600.0	15.83	15.82	0.01	0.15	21.56	14.14	18.60	1.15	0.78	39.08	20.85	5.07
800.0	15.84	15.84	0.00	0.21	21.57	13.61	19.39	1.15	0.78	39.71	20.78	5.08
1000.0	15.88	15.87	0.01	0.24	21.57	13.13	20.25	1.15	0.79	37.77	20.84	5.09
1200.0	15.91	15.90	0.01	0.30	21.57	12.62	20.97	1.15	0.79	37.79	20.54	5.16
1400.0	15.96	15.94	0.02	0.38	21.62	12.15	21.38	1.15	0.79	36.81	20.52	5.14
1600.0	16.01	15.99	0.02	0.45	21.60	11.69	21.18	1.14	0.79	35.85	20.28	5.16
1800.0	16.05	16.04	0.01	0.60	21.66	11.19	20.60	1.14	0.79	35.13	20.32	5.18
2000.0	16.13	16.10	0.03	0.59	21.62	10.79	19.00	1.13	0.78	34.91	20.09	5.22
2200.0	16.18	16.14	0.04	0.71	21.66	10.32	17.46	1.12	0.77	33.16	19.45	5.29
2400.0	16.19	16.19	0.00	0.81	21.68	9.76	16.00	1.12	0.76	32.83	19.48	5.28
2600.0	16.23	16.19	0.04	0.81	21.71	9.22	14.37	1.11	0.74	32.16	19.04	5.50
2800.0	16.22	16.18	0.04	0.93	21.76	8.54	12.64	1.10	0.73	31.09	18.65	5.59
3000.0	16.15	16.12	0.03	1.23	21.84	7.84	11.04	1.09	0.71	30.73	18.31	5.55
3200.0	16.04	16.00	0.04	1.17	21.98	7.12	9.52	1.09	0.68	29.36	17.60	5.72
3400.0	15.84	15.82	0.02	1.23	22.17	6.38	8.13	1.08	0.65	28.81	17.29	5.79
3600.0	15.58	15.56	0.02	1.40	22.38	5.77	6.89	1.07	0.61	28.08	16.70	5.94
3800.0	15.22	15.22	0.00	1.63	22.66	5.18	5.78	1.06	0.57	27.64	16.25	6.16
4000.0	14.82	14.80	0.02	1.81	22.96	4.70	4.93	1.05	0.54	27.42	15.88	6.25
4200.0	14.37	14.36	0.01	1.60	23.29	4.33	4.23	1.04	0.50	26.57	15.15	6.42
4400.0	13.86	13.85	0.01	1.59	23.59	4.03	3.68	1.02	0.47	26.27	14.63	6.62
4600.0	13.37	13.35	0.02	1.68	23.86	3.82	3.27	1.01	0.45	25.67	14.12	6.91
4800.0	12.83	12.84	0.01	1.86	24.09	3.66	2.93	1.00	0.43	25.33	13.64	6.96
5000.0	12.35	12.31	0.04	1.89	24.26	3.59	2.73	0.99	0.43	24.81	13.01	7.23
5200.0	11.83	11.87	0.04	2.08	24.64	3.50	2.55	1.00	0.43	24.49	12.65	7.22
5400.0	11.35	11.32	0.03	2.30	24.32	3.61	2.54	1.00	0.44	24.63	11.99	7.56
5600.0	10.77	10.82	0.05	2.24	24.71	3.58	2.48	1.00	0.47	22.98	11.78	7.49
5800.0	10.21	10.28	0.07	2.04	24.74	3.60	2.49	1.01	0.49	23.05	11.36	7.89
6000.0	9.64	9.75	0.11	2.20	24.83	3.64	2.52	1.05	0.52	22.72	10.92	8.06

## 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) = 77.47 mA and Id2 (A2) = 77.59 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	17.06	17.06	0.00	0.16	23.17	20.34	11.35	1.15	0.72	--	19.52	3.73
20.0	17.02	17.02	0.00	0.03	22.93	19.62	11.63	1.14	0.71	39.48	19.25	4.09
30.0	16.91	16.91	0.00	0.03	22.73	18.86	11.97	1.13	0.72	40.82	19.73	4.00
40.0	16.79	16.78	0.01	0.00	22.62	18.13	12.35	1.13	0.73	41.26	20.06	3.89
50.0	16.68	16.68	0.00	0.00	22.54	17.52	12.77	1.14	0.74	41.46	19.85	3.94
60.0	16.55	16.54	0.01	0.03	22.16	17.23	13.13	1.12	0.73	39.16	19.85	3.95
70.0	16.46	16.46	0.00	0.03	22.14	16.86	13.47	1.13	0.74	40.06	19.85	3.94
80.0	16.38	16.37	0.01	0.04	22.05	16.62	13.82	1.13	0.74	40.17	19.92	3.95
90.0	16.31	16.31	0.00	0.05	21.96	16.47	14.08	1.13	0.74	39.82	19.97	4.02
100.0	16.25	16.25	0.00	0.06	21.93	16.36	14.33	1.14	0.74	39.10	19.93	4.00
200.0	16.01	16.00	0.01	0.08	21.68	15.56	16.10	1.15	0.76	39.47	19.94	3.91
400.0	15.92	15.92	0.00	0.14	21.63	14.49	17.74	1.15	0.77	39.22	19.89	4.17
600.0	15.92	15.91	0.01	0.17	21.58	14.12	18.49	1.15	0.78	39.36	19.91	4.26
800.0	15.94	15.93	0.01	0.28	21.56	13.70	18.89	1.14	0.78	39.28	19.93	4.19
1000.0	15.98	15.96	0.02	0.31	21.58	13.25	19.67	1.14	0.78	37.74	19.93	4.23
1200.0	16.01	16.00	0.01	0.36	21.56	12.57	20.60	1.14	0.78	38.26	19.91	4.33
1400.0	16.05	16.03	0.02	0.48	21.57	11.95	21.04	1.13	0.78	37.24	19.96	4.33
1600.0	16.11	16.08	0.03	0.55	21.54	11.48	20.68	1.12	0.78	36.49	19.97	4.30
1800.0	16.14	16.12	0.02	0.73	21.59	11.01	20.03	1.12	0.78	36.85	20.15	4.35
2000.0	16.23	16.19	0.04	0.73	21.51	10.59	18.62	1.11	0.76	35.96	19.99	4.33
2200.0	16.27	16.22	0.05	0.92	21.49	9.97	17.05	1.10	0.75	34.19	19.50	4.44
2400.0	16.29	16.27	0.02	0.97	21.57	9.43	15.65	1.10	0.75	34.03	19.60	4.42
2600.0	16.32	16.28	0.04	1.02	21.58	8.90	14.04	1.09	0.73	33.12	19.14	4.62
2800.0	16.32	16.27	0.05	1.14	21.62	8.21	12.50	1.08	0.72	32.08	18.84	4.71
3000.0	16.25	16.20	0.05	1.43	21.68	7.43	10.86	1.07	0.69	31.66	18.44	4.74
3200.0	16.13	16.07	0.06	1.40	21.86	6.63	9.27	1.06	0.67	30.06	17.74	4.83
3400.0	15.94	15.90	0.04	1.53	22.02	5.92	7.95	1.05	0.64	29.54	17.51	4.90
3600.0	15.71	15.66	0.05	1.69	22.21	5.32	6.76	1.03	0.60	28.71	16.95	5.04
3800.0	15.36	15.35	0.01	2.03	22.49	4.71	5.66	1.02	0.56	28.25	16.51	5.23
4000.0	14.96	14.95	0.01	1.87	22.83	4.21	4.78	1.01	0.52	28.06	16.11	5.34
4200.0	14.51	14.50	0.01	1.94	23.16	3.83	4.03	1.00	0.47	27.03	15.42	5.48
4400.0	14.04	14.01	0.03	2.07	23.50	3.54	3.45	0.98	0.44	26.69	14.91	5.71
4600.0	13.58	13.54	0.04	1.99	23.81	3.32	3.03	0.97	0.41	26.21	14.48	5.93
4800.0	13.10	13.11	0.01	2.22	24.12	3.16	2.67	0.95	0.38	26.02	13.98	5.98
5000.0	12.67	12.65	0.02	2.09	24.31	3.12	2.43	0.94	0.37	25.16	13.43	6.22
5200.0	12.24	12.25	0.01	2.47	24.46	3.10	2.28	0.93	0.36	25.39	13.07	6.21
5400.0	11.81	11.77	0.04	2.82	24.42	3.17	2.18	0.93	0.35	25.43	12.44	6.50
5600.0	11.32	11.35	0.03	2.60	24.69	3.14	2.07	0.92	0.36	24.07	12.26	6.44
5800.0	10.78	10.79	0.01	2.42	24.89	3.16	2.02	0.92	0.38	24.40	11.82	6.77
6000.0	10.24	10.29	0.05	2.60	24.91	3.20	2.00	0.93	0.40	23.74	11.40	6.95

## Typical Performance Data

**Definitions:**

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Vd = 4.75V, Id1 (A1) = 69.2 mA and Id2 (A2) = 69.23 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	17.03	17.02	0.01	0.05	22.73	21.17	11.27	1.12	0.69	--	18.68	3.62
20.0	16.98	16.98	0.00	0.02	22.72	19.96	11.49	1.12	0.70	38.34	18.40	4.00
30.0	16.87	16.87	0.00	0.02	22.66	19.12	11.89	1.13	0.71	38.59	18.88	3.89
40.0	16.75	16.75	0.00	0.00	22.44	18.40	12.26	1.12	0.71	38.03	19.17	3.81
50.0	16.64	16.64	0.00	0.01	22.24	17.85	12.61	1.12	0.72	37.72	18.94	3.88
60.0	16.51	16.51	0.00	0.02	22.29	17.45	12.99	1.13	0.73	39.82	18.99	3.89
70.0	16.42	16.42	0.00	0.01	22.07	17.10	13.36	1.13	0.73	37.85	18.99	3.87
80.0	16.34	16.33	0.01	0.02	22.02	16.86	13.69	1.13	0.74	37.75	19.03	3.87
90.0	16.27	16.27	0.00	0.03	21.94	16.71	13.95	1.13	0.74	38.16	19.07	3.92
100.0	16.22	16.21	0.01	0.03	21.86	16.60	14.18	1.13	0.74	37.11	19.02	3.94
200.0	15.97	15.97	0.00	0.08	21.63	15.79	15.94	1.15	0.76	37.10	18.97	3.89
400.0	15.88	15.88	0.00	0.11	21.53	14.65	17.51	1.15	0.77	38.42	19.01	4.10
600.0	15.88	15.88	0.00	0.15	21.53	14.30	18.24	1.15	0.77	38.08	18.99	4.19
800.0	15.90	15.90	0.00	0.28	21.52	13.85	18.68	1.14	0.77	38.09	19.02	4.13
1000.0	15.94	15.93	0.01	0.31	21.50	13.40	19.41	1.14	0.77	36.29	18.96	4.18
1200.0	15.98	15.97	0.01	0.40	21.51	12.71	20.30	1.14	0.78	36.98	18.97	4.23
1400.0	16.02	16.00	0.02	0.47	21.51	12.08	20.69	1.13	0.78	36.42	18.97	4.26
1600.0	16.08	16.05	0.03	0.55	21.50	11.60	20.30	1.13	0.78	35.93	19.07	4.21
1800.0	16.11	16.09	0.02	0.73	21.54	11.11	19.65	1.12	0.78	35.35	19.28	4.25
2000.0	16.19	16.16	0.03	0.79	21.46	10.70	18.30	1.11	0.76	34.98	19.21	4.28
2200.0	16.23	16.19	0.04	0.95	21.47	10.07	16.79	1.10	0.75	33.54	18.85	4.39
2400.0	16.25	16.24	0.01	1.02	21.54	9.53	15.43	1.10	0.75	33.08	18.99	4.37
2600.0	16.29	16.24	0.05	1.07	21.50	8.98	13.84	1.09	0.73	32.40	18.55	4.54
2800.0	16.28	16.23	0.05	1.20	21.51	8.28	12.30	1.07	0.71	31.44	18.29	4.69
3000.0	16.21	16.16	0.05	1.50	21.59	7.49	10.70	1.06	0.68	30.87	17.89	4.63
3200.0	16.08	16.02	0.06	1.48	21.79	6.69	9.13	1.06	0.66	29.38	17.23	4.71
3400.0	15.88	15.85	0.03	1.61	21.96	5.97	7.82	1.05	0.63	28.86	17.01	4.82
3600.0	15.64	15.60	0.04	1.78	22.13	5.37	6.65	1.03	0.59	28.08	16.44	4.96
3800.0	15.28	15.27	0.01	2.14	22.41	4.76	5.57	1.02	0.55	27.58	16.02	5.15
4000.0	14.87	14.86	0.01	2.02	22.76	4.24	4.70	1.01	0.51	27.38	15.65	5.25
4200.0	14.42	14.40	0.02	2.07	23.12	3.87	3.95	1.00	0.46	26.39	14.95	5.39
4400.0	13.93	13.90	0.03	2.19	23.45	3.58	3.39	0.98	0.43	25.94	14.46	5.60
4600.0	13.47	13.44	0.03	2.13	23.74	3.36	2.98	0.97	0.40	25.50	14.03	5.87
4800.0	12.98	12.99	0.01	2.38	24.01	3.20	2.63	0.95	0.37	25.35	13.53	5.89
5000.0	12.54	12.52	0.02	2.25	24.25	3.17	2.40	0.94	0.36	24.43	12.99	6.12
5200.0	12.10	12.12	0.02	2.69	24.42	3.13	2.25	0.93	0.36	24.61	12.65	6.11
5400.0	11.67	11.64	0.03	2.99	24.35	3.21	2.15	0.93	0.35	24.70	12.01	6.38
5600.0	11.18	11.21	0.03	2.78	24.56	3.17	2.06	0.92	0.36	23.28	11.81	6.35
5800.0	10.63	10.66	0.03	2.58	24.75	3.18	2.01	0.92	0.38	23.57	11.39	6.65
6000.0	10.09	10.16	0.07	2.80	24.76	3.24	1.99	0.92	0.39	22.99	10.95	6.90

## Typical Performance Data

**Definitions:**

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)      85.89      85.98

TEST CONDITIONS: Vd =5.25V, Id1 A1) = 85.89 mA and Id2 (A2) =85.98 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	17.09	17.08	0.01	0.23	23.21	20.14	11.40	1.15	0.72	--	20.12	3.74
20.0	17.05	17.04	0.01	0.01	23.01	19.36	11.69	1.14	0.72	39.11	19.96	4.16
30.0	16.94	16.94	0.00	0.01	22.73	18.58	12.03	1.13	0.72	41.73	20.46	4.05
40.0	16.82	16.82	0.00	0.00	22.58	17.93	12.42	1.13	0.72	40.36	20.82	3.92
50.0	16.71	16.71	0.00	0.00	22.55	17.30	12.83	1.13	0.74	42.17	20.58	4.03
60.0	16.58	16.57	0.01	0.01	22.20	17.01	13.18	1.12	0.73	40.18	20.61	4.01
70.0	16.49	16.49	0.00	0.03	22.18	16.68	13.54	1.13	0.74	42.87	20.63	3.99
80.0	16.41	16.40	0.01	0.05	22.09	16.46	13.89	1.13	0.74	43.03	20.73	4.02
90.0	16.34	16.33	0.01	0.05	22.03	16.33	14.16	1.13	0.75	41.34	20.77	4.06
100.0	16.28	16.28	0.00	0.07	21.96	16.17	14.42	1.13	0.75	40.81	20.71	4.04
200.0	16.03	16.03	0.00	0.09	21.71	15.40	16.24	1.15	0.76	41.17	20.76	4.04
400.0	15.95	15.95	0.00	0.18	21.66	14.34	17.88	1.15	0.78	41.82	20.74	4.22
600.0	15.94	15.94	0.00	0.22	21.60	14.00	18.64	1.15	0.78	39.61	20.75	4.32
800.0	15.97	15.96	0.01	0.31	21.59	13.57	19.08	1.14	0.78	40.79	20.78	4.27
1000.0	16.00	15.99	0.01	0.36	21.59	13.13	19.88	1.14	0.78	39.19	20.81	4.31
1200.0	16.04	16.02	0.02	0.44	21.58	12.46	20.88	1.14	0.78	38.88	20.72	4.35
1400.0	16.08	16.06	0.02	0.56	21.59	11.86	21.34	1.13	0.78	38.03	20.75	4.39
1600.0	16.14	16.11	0.03	0.64	21.59	11.39	20.96	1.13	0.78	37.39	20.63	4.39
1800.0	16.17	16.15	0.02	0.82	21.64	10.92	20.31	1.12	0.78	37.02	20.75	4.38
2000.0	16.26	16.22	0.04	0.87	21.58	10.52	18.88	1.11	0.77	36.40	20.54	4.43
2200.0	16.30	16.25	0.05	1.05	21.57	9.90	17.28	1.10	0.76	34.60	19.97	4.51
2400.0	16.32	16.30	0.02	1.12	21.61	9.38	15.90	1.10	0.75	34.68	20.07	4.52
2600.0	16.36	16.31	0.05	1.17	21.65	8.84	14.24	1.09	0.74	33.65	19.61	4.71
2800.0	16.36	16.31	0.05	1.30	21.67	8.15	12.67	1.08	0.72	32.68	19.29	4.80
3000.0	16.30	16.25	0.05	1.62	21.75	7.38	11.02	1.07	0.70	32.08	18.89	4.79
3200.0	16.18	16.12	0.06	1.60	21.88	6.59	9.41	1.06	0.68	30.72	18.21	4.87
3400.0	16.00	15.96	0.04	1.72	22.06	5.88	8.07	1.05	0.65	30.10	17.97	4.97
3600.0	15.77	15.73	0.04	1.90	22.28	5.30	6.86	1.04	0.61	29.36	17.40	5.11
3800.0	15.43	15.42	0.01	2.28	22.53	4.69	5.74	1.02	0.56	28.93	16.94	5.33
4000.0	15.04	15.03	0.01	2.15	22.87	4.17	4.86	1.01	0.53	28.65	16.53	5.48
4200.0	14.60	14.59	0.01	2.21	23.22	3.80	4.08	1.00	0.48	27.69	15.87	5.60
4400.0	14.14	14.11	0.03	2.30	23.59	3.51	3.50	0.98	0.45	27.34	15.33	5.78
4600.0	13.69	13.65	0.04	2.23	23.82	3.29	3.07	0.97	0.41	26.88	14.91	6.04
4800.0	13.22	13.22	0.00	2.49	24.21	3.12	2.70	0.95	0.39	26.74	14.40	6.11
5000.0	12.79	12.77	0.02	2.40	24.39	3.09	2.46	0.94	0.37	25.89	13.83	6.33
5200.0	12.37	12.39	0.02	2.85	24.53	3.05	2.29	0.93	0.36	26.07	13.50	6.31
5400.0	11.94	11.91	0.03	3.12	24.46	3.14	2.19	0.92	0.35	26.14	12.83	6.59
5600.0	11.46	11.49	0.03	2.93	24.73	3.11	2.08	0.91	0.36	24.84	12.68	6.51
5800.0	10.91	10.94	0.03	2.75	25.02	3.12	2.02	0.92	0.38	25.15	12.22	6.92
6000.0	10.38	10.45	0.07	2.98	25.00	3.18	2.01	0.92	0.40	24.50	11.80	7.09

## 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 = 5.00V, Id1(A1) = 85.19 mA and Id2 (A2) = 85.14 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	16.89	16.88	0.01	0.11	22.46	21.78	11.09	1.11	0.68	--	19.77	4.91
20.0	16.86	16.85	0.01	0.01	22.71	20.05	11.66	1.13	0.71	38.08	19.48	5.35
30.0	16.75	16.75	0.00	0.01	22.56	19.12	12.05	1.13	0.71	41.43	20.02	5.24
40.0	16.63	16.63	0.00	0.01	22.41	18.27	12.51	1.13	0.72	39.48	20.40	5.17
50.0	16.53	16.53	0.00	0.00	22.32	17.67	12.99	1.14	0.73	40.17	20.19	5.24
60.0	16.40	16.39	0.01	0.01	22.16	17.08	13.50	1.14	0.74	41.30	20.16	5.27
70.0	16.31	16.31	0.00	0.01	21.97	16.64	13.99	1.13	0.74	40.62	20.15	5.23
80.0	16.22	16.22	0.00	0.00	21.93	16.30	14.43	1.14	0.75	39.30	20.24	5.27
90.0	16.16	16.15	0.01	0.00	21.83	16.06	14.83	1.14	0.75	38.86	20.28	5.30
100.0	16.10	16.10	0.00	0.00	21.79	15.82	15.18	1.14	0.75	38.97	20.23	5.30
200.0	15.82	15.82	0.00	0.04	21.54	14.84	17.14	1.15	0.77	38.44	20.32	5.30
400.0	15.73	15.73	0.00	0.06	21.50	14.75	17.68	1.16	0.77	40.87	20.20	5.52
600.0	15.72	15.72	0.00	0.14	21.46	14.39	18.44	1.16	0.78	38.31	20.19	5.61
800.0	15.74	15.73	0.01	0.18	21.47	13.97	19.03	1.16	0.78	37.90	20.13	5.55
1000.0	15.77	15.76	0.01	0.23	21.49	13.54	19.81	1.16	0.78	36.78	20.21	5.58
1200.0	15.81	15.80	0.01	0.29	21.53	13.04	20.47	1.16	0.79	36.34	19.94	5.67
1400.0	15.86	15.84	0.02	0.38	21.53	12.53	21.06	1.15	0.79	35.66	19.89	5.67
1600.0	15.91	15.89	0.02	0.49	21.53	12.03	21.06	1.15	0.78	34.77	19.64	5.70
1800.0	15.95	15.93	0.02	0.65	21.61	11.45	20.51	1.15	0.78	33.80	19.63	5.70
2000.0	16.03	16.00	0.03	0.65	21.57	11.02	18.83	1.14	0.77	33.43	19.43	5.72
2200.0	16.07	16.03	0.04	0.81	21.60	10.55	17.17	1.13	0.76	32.14	18.76	5.80
2400.0	16.08	16.07	0.01	0.79	21.69	10.09	15.72	1.13	0.76	31.56	18.72	5.81
2600.0	16.11	16.07	0.04	0.88	21.69	9.58	14.07	1.13	0.74	31.06	18.25	6.01
2800.0	16.09	16.04	0.05	1.00	21.75	8.97	12.42	1.12	0.72	30.02	17.83	6.11
3000.0	16.01	15.96	0.05	1.45	21.83	8.31	10.87	1.11	0.70	29.56	17.48	6.07
3200.0	15.89	15.84	0.05	1.21	21.94	7.62	9.45	1.10	0.67	28.20	16.75	6.20
3400.0	15.65	15.64	0.01	1.35	22.08	6.87	8.10	1.10	0.64	27.51	16.37	6.26
3600.0	15.38	15.35	0.03	1.62	22.26	6.24	6.85	1.09	0.60	26.73	15.79	6.41
3800.0	14.96	14.98	0.02	1.81	22.53	5.62	5.77	1.08	0.57	26.26	15.30	6.64
4000.0	14.53	14.48	0.05	1.75	22.79	5.11	4.94	1.07	0.53	25.89	14.91	6.73
4200.0	14.02	14.01	0.01	1.85	23.07	4.72	4.25	1.06	0.50	25.02	14.20	6.87
4400.0	13.45	13.46	0.01	1.82	23.40	4.40	3.74	1.05	0.49	24.67	13.63	7.10
4600.0	12.90	12.90	0.00	1.92	23.65	4.19	3.37	1.04	0.48	24.05	13.15	7.39
4800.0	12.29	12.32	0.03	2.05	23.97	4.01	3.08	1.04	0.47	23.55	12.62	7.45
5000.0	11.76	11.76	0.00	1.98	24.03	3.94	2.94	1.04	0.48	23.22	12.00	7.74
5200.0	11.19	11.24	0.05	2.04	24.27	3.88	2.82	1.04	0.50	22.60	11.64	7.74
5400.0	10.64	10.67	0.03	2.20	24.13	3.96	2.86	1.05	0.52	22.68	11.03	8.04
5600.0	10.08	10.11	0.03	2.15	24.30	3.91	2.85	1.07	0.55	21.22	10.80	7.98
5800.0	9.52	9.55	0.03	2.16	24.43	3.90	2.90	1.08	0.58	21.16	10.44	8.40
6000.0	8.92	8.97	0.05	2.33	24.42	3.92	2.95	1.11	0.61	21.00	9.96	8.58

## Typical Performance Data

**Definitions:**

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Vd = 4.75V, Id1(A1) = 76.59 mA and Id2 (A2) = 76.5 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	16.84	16.84	0.00	0.05	22.93	22.08	11.17	1.15	0.70	--	18.80	4.85
20.0	16.81	16.80	0.01	0.03	22.73	20.45	11.55	1.14	0.71	38.81	18.77	5.25
30.0	16.71	16.70	0.01	0.02	22.58	19.47	11.94	1.14	0.72	39.71	19.29	5.13
40.0	16.59	16.58	0.01	0.01	22.35	18.59	12.43	1.13	0.72	37.79	19.64	5.09
50.0	16.49	16.48	0.01	0.01	22.35	17.98	12.91	1.14	0.73	37.71	19.40	5.18
60.0	16.35	16.35	0.00	0.01	21.97	17.28	13.38	1.13	0.73	38.33	19.42	5.16
70.0	16.27	16.26	0.01	0.01	21.98	16.89	13.84	1.14	0.74	38.24	19.44	5.16
80.0	16.18	16.18	0.00	0.01	21.84	16.53	14.29	1.14	0.74	37.34	19.51	5.18
90.0	16.11	16.11	0.00	0.01	21.77	16.28	14.66	1.14	0.75	37.27	19.55	5.23
100.0	16.06	16.05	0.01	0.00	21.72	16.06	15.04	1.14	0.75	36.67	19.50	5.23
200.0	15.78	15.78	0.00	0.05	21.50	15.05	16.97	1.15	0.77	37.19	19.55	5.21
400.0	15.69	15.69	0.00	0.04	21.43	14.97	17.47	1.16	0.77	37.79	19.47	5.42
600.0	15.68	15.67	0.01	0.12	21.43	14.61	18.20	1.16	0.77	36.78	19.44	5.50
800.0	15.70	15.69	0.01	0.17	21.46	14.17	18.79	1.16	0.78	37.07	19.43	5.48
1000.0	15.73	15.72	0.01	0.22	21.46	13.71	19.50	1.16	0.78	35.79	19.48	5.52
1200.0	15.77	15.76	0.01	0.28	21.44	13.21	20.13	1.15	0.78	35.83	19.34	5.57
1400.0	15.82	15.80	0.02	0.36	21.46	12.69	20.66	1.15	0.78	35.09	19.34	5.60
1600.0	15.88	15.85	0.03	0.45	21.48	12.17	20.60	1.15	0.78	34.69	19.17	5.55
1800.0	15.91	15.89	0.02	0.63	21.52	11.60	20.10	1.15	0.78	33.77	19.22	5.59
2000.0	15.98	15.95	0.03	0.60	21.51	11.15	18.42	1.14	0.77	33.22	19.02	5.64
2200.0	16.03	15.98	0.05	0.73	21.56	10.68	16.84	1.14	0.76	32.13	18.38	5.71
2400.0	16.04	16.02	0.02	0.71	21.62	10.22	15.44	1.13	0.75	31.57	18.36	5.72
2600.0	16.05	16.02	0.03	0.78	21.64	9.69	13.82	1.13	0.73	30.87	17.86	5.92
2800.0	16.03	15.98	0.05	0.93	21.65	9.07	12.22	1.12	0.71	29.84	17.46	6.01
3000.0	15.95	15.90	0.05	1.35	21.70	8.42	10.71	1.11	0.69	29.49	17.11	5.99
3200.0	15.82	15.77	0.05	1.11	21.86	7.71	9.30	1.10	0.66	27.96	16.36	6.11
3400.0	15.58	15.56	0.02	1.23	22.02	6.96	7.97	1.10	0.64	27.31	15.99	6.15
3600.0	15.30	15.26	0.04	1.50	22.17	6.32	6.74	1.09	0.59	26.49	15.38	6.31
3800.0	14.86	14.88	0.02	1.70	22.43	5.68	5.68	1.08	0.56	25.94	14.92	6.52
4000.0	14.43	14.36	0.07	1.66	22.70	5.17	4.86	1.07	0.52	25.62	14.52	6.64
4200.0	13.91	13.88	0.03	1.70	22.99	4.78	4.19	1.05	0.50	24.72	13.79	6.75
4400.0	13.32	13.33	0.01	1.70	23.30	4.46	3.68	1.05	0.48	24.37	13.23	7.02
4600.0	12.76	12.75	0.01	1.80	23.57	4.24	3.32	1.04	0.47	23.69	12.74	7.29
4800.0	12.15	12.16	0.01	1.92	23.82	4.06	3.04	1.04	0.47	23.19	12.27	7.34
5000.0	11.61	11.60	0.01	1.84	23.94	3.99	2.90	1.03	0.47	22.86	11.63	7.64
5200.0	11.04	11.06	0.02	1.93	24.20	3.93	2.80	1.04	0.49	22.23	11.27	7.62
5400.0	10.48	10.50	0.02	2.03	24.01	3.99	2.83	1.05	0.52	22.33	10.60	7.90
5600.0	9.92	9.93	0.01	2.02	24.23	3.95	2.82	1.07	0.55	20.80	10.40	7.85
5800.0	9.36	9.37	0.01	1.99	24.36	3.93	2.88	1.09	0.58	20.71	9.98	8.25
6000.0	8.76	8.79	0.03	2.14	24.36	3.94	2.92	1.12	0.61	20.57	9.55	8.42



## 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) = 94.35 mA and Id2 (A2) = 94.19 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	16.93	16.95	0.02	0.03	22.85	21.28	11.53	1.14	0.70	--	20.03	5.00
20.0	16.89	16.88	0.01	0.04	22.71	19.71	11.70	1.13	0.71	39.56	20.04	5.40
30.0	16.78	16.78	0.00	0.03	22.69	18.90	12.14	1.14	0.72	40.34	20.55	5.33
40.0	16.67	16.66	0.01	0.02	22.41	18.02	12.61	1.13	0.72	41.93	21.00	5.25
50.0	16.56	16.56	0.00	0.00	22.18	17.36	13.08	1.12	0.73	42.81	20.79	5.34
60.0	16.43	16.42	0.01	0.02	22.19	16.78	13.57	1.14	0.74	40.64	20.72	5.35
70.0	16.34	16.33	0.01	0.01	22.07	16.44	14.08	1.14	0.75	41.42	20.73	5.33
80.0	16.25	16.25	0.00	0.00	21.96	16.09	14.53	1.14	0.75	39.86	20.83	5.37
90.0	16.19	16.18	0.01	0.00	21.88	15.84	14.94	1.14	0.75	40.50	20.85	5.39
100.0	16.13	16.12	0.01	0.01	21.82	15.61	15.30	1.14	0.76	40.45	20.78	5.38
200.0	15.85	15.85	0.00	0.03	21.58	14.65	17.32	1.15	0.77	39.12	20.90	5.31
400.0	15.76	15.76	0.00	0.06	21.51	14.59	17.86	1.16	0.77	39.89	20.72	5.56
600.0	15.75	15.74	0.01	0.08	21.54	14.24	18.66	1.16	0.78	39.52	20.70	5.68
800.0	15.77	15.76	0.01	0.12	21.54	13.82	19.27	1.16	0.78	38.49	20.55	5.66
1000.0	15.80	15.79	0.01	0.18	21.56	13.39	20.06	1.16	0.79	36.79	20.62	5.68
1200.0	15.84	15.82	0.02	0.23	21.56	12.91	20.80	1.16	0.79	36.51	20.25	5.73
1400.0	15.89	15.87	0.02	0.28	21.58	12.42	21.47	1.15	0.79	35.24	20.20	5.74
1600.0	15.94	15.92	0.02	0.37	21.59	11.92	21.49	1.15	0.79	34.30	19.87	5.75
1800.0	15.98	15.96	0.02	0.52	21.65	11.36	21.00	1.15	0.79	33.69	19.85	5.76
2000.0	16.06	16.02	0.04	0.50	21.62	10.93	19.20	1.14	0.78	32.89	19.64	5.84
2200.0	16.10	16.06	0.04	0.63	21.66	10.47	17.47	1.14	0.77	31.57	18.94	5.91
2400.0	16.12	16.10	0.02	0.60	21.71	10.02	15.96	1.13	0.76	31.34	18.89	5.90
2600.0	16.14	16.10	0.04	0.66	21.77	9.51	14.29	1.13	0.74	30.64	18.44	6.10
2800.0	16.12	16.08	0.04	0.80	21.78	8.92	12.62	1.12	0.72	29.63	18.03	6.23
3000.0	16.05	16.00	0.05	1.20	21.88	8.29	11.05	1.11	0.70	29.33	17.68	6.17
3200.0	15.93	15.88	0.05	0.97	21.94	7.60	9.60	1.10	0.68	28.01	16.97	6.31
3400.0	15.70	15.68	0.02	1.07	22.12	6.86	8.24	1.10	0.65	27.47	16.58	6.37
3600.0	15.43	15.40	0.03	1.34	22.36	6.23	6.97	1.09	0.61	26.66	15.99	6.57
3800.0	15.01	15.03	0.02	1.51	22.53	5.61	5.88	1.08	0.57	26.19	15.51	6.77
4000.0	14.59	14.52	0.07	1.50	22.86	5.12	5.04	1.07	0.54	25.84	15.13	6.81
4200.0	14.08	14.07	0.01	1.49	23.18	4.72	4.35	1.06	0.52	25.02	14.44	6.99
4400.0	13.51	13.52	0.01	1.47	23.41	4.40	3.82	1.05	0.50	24.68	13.91	7.26
4600.0	12.96	12.96	0.00	1.60	23.71	4.20	3.46	1.05	0.49	24.04	13.36	7.52
4800.0	12.36	12.38	0.02	1.65	23.98	4.01	3.16	1.04	0.49	23.56	12.86	7.62
5000.0	11.82	11.82	0.00	1.61	24.07	3.94	3.02	1.04	0.49	23.27	12.27	7.87
5200.0	11.25	11.29	0.04	1.67	24.32	3.88	2.91	1.05	0.51	22.67	11.93	7.94
5400.0	10.70	10.72	0.02	1.75	24.19	3.95	2.94	1.06	0.54	22.71	11.26	8.18
5600.0	10.13	10.16	0.03	1.71	24.35	3.91	2.95	1.08	0.57	21.37	11.10	8.20
5800.0	9.57	9.59	0.02	1.69	24.47	3.89	3.00	1.09	0.61	21.27	10.64	8.56
6000.0	8.97	9.01	0.04	1.85	24.50	3.91	3.04	1.12	0.63	21.12	10.16	8.74