

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: $V_{DD} = +5.00V$, $I_{DD} = 85mA$ @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.1	12.05	65.80	-2.43	-23.23	104.95	1.56	33.19	20.58	9.77
0.2	14.05	65.17	-5.49	-31.15	130.62	1.28	33.30	20.09	6.49
0.3	14.70	62.23	-7.91	-33.03	101.25	1.16	32.37	19.98	5.35
0.4	14.97	60.35	-9.71	-32.48	84.35	1.11	31.88	19.97	5.07
0.5	15.10	68.20	-11.08	-31.05	212.32	1.08	30.78	19.90	4.83
1.0	15.31	58.75	-14.02	-25.89	73.26	1.04	32.53	19.98	4.31
1.5	15.38	56.89	-14.02	-26.26	59.17	1.04	32.49	20.00	3.95
2.0	15.39	52.00	-12.22	-25.62	33.38	1.06	33.92	20.07	3.45
2.5	15.08	49.11	-9.99	-26.07	24.03	1.10	32.41	19.89	3.29
3.0	14.02	47.81	-9.68	-29.82	23.60	1.11	32.80	19.93	3.58
3.5	13.41	48.40	-10.83	-32.55	28.28	1.08	32.87	19.70	3.88
4.0	13.34	47.90	-11.72	-32.84	27.60	1.07	32.10	19.75	3.69
4.5	13.37	46.98	-12.02	-30.18	24.94	1.06	34.06	19.73	3.48
5.0	13.43	46.10	-12.17	-28.73	22.46	1.06	32.93	19.81	3.07
5.5	13.50	45.42	-12.50	-28.00	20.69	1.05	33.44	19.63	2.67
6.0	13.61	43.94	-13.06	-24.83	17.37	1.04	32.58	19.71	2.28
6.5	13.67	43.48	-13.93	-21.54	16.49	1.03	32.51	19.71	2.17
7.0	13.73	42.93	-14.98	-18.98	15.49	1.02	32.46	19.25	2.08
7.5	13.77	42.28	-16.06	-17.57	14.40	1.00	32.35	19.00	2.02
8.0	13.84	41.37	-16.97	-16.96	12.92	1.00	31.81	19.01	1.93
8.5	13.95	40.62	-17.62	-17.21	11.81	0.99	31.21	18.92	2.03
9.0	14.13	39.74	-18.29	-18.17	10.58	1.00	31.27	18.93	2.12
9.5	14.33	38.59	-18.39	-18.83	9.14	1.00	31.28	18.72	2.21
10.0	14.46	37.52	-17.27	-18.11	7.96	1.00	30.11	18.54	2.41
10.5	14.52	36.86	-15.48	-17.04	7.26	1.00	31.30	18.88	2.65
11.0	14.53	36.21	-13.78	-16.57	6.65	1.01	30.57	18.26	2.75
11.5	14.49	35.72	-12.34	-16.91	6.24	1.03	30.00	18.37	2.94
12.0	14.42	35.16	-11.14	-18.11	5.84	1.06	30.01	18.53	3.01
12.5	14.29	34.79	-10.27	-18.70	5.62	1.08	30.87	18.67	3.16
13.0	14.15	34.66	-9.67	-18.30	5.57	1.09	30.92	19.02	3.21
13.5	13.98	34.22	-9.52	-17.33	5.39	1.09	30.68	18.91	3.21
14.0	13.84	34.01	-9.73	-16.72	5.38	1.08	30.67	18.76	3.15
14.5	13.81	33.71	-10.21	-16.79	5.31	1.07	30.20	18.28	3.18
15.0	13.85	33.27	-10.94	-17.25	5.14	1.06	30.65	17.57	3.13
15.5	13.99	32.71	-11.84	-17.84	4.86	1.04	28.80	17.11	3.11
16.0	14.19	32.10	-12.99	-18.31	4.54	1.03	29.68	17.03	3.10
16.5	14.43	31.43	-14.83	-18.59	4.19	1.01	28.76	16.98	3.13
17.0	14.71	30.75	-18.20	-19.27	3.86	0.99	26.34	16.66	3.17
17.5	14.98	29.98	-24.67	-20.08	3.50	0.97	26.88	16.43	3.37
18.0	15.18	29.13	-22.39	-18.02	3.12	0.96	25.90	15.81	3.50
18.1	15.20	29.27	-19.98	-17.45	3.14	0.96	25.96	15.92	3.58
18.2	15.20	29.12	-18.77	-16.80	3.08	0.96	25.58	15.67	3.56
18.3	15.19	29.00	-17.22	-16.30	3.03	0.96	25.32	15.89	3.68
18.4	15.17	28.92	-15.92	-15.70	2.98	0.96	25.72	15.96	3.76
18.5	15.13	28.84	-14.83	-15.16	2.94	0.96	25.21	15.92	3.74
18.6	15.09	28.79	-13.79	-14.62	2.91	0.97	24.92	15.90	3.84
18.7	15.03	28.80	-12.84	-14.12	2.89	0.97	25.00	16.08	3.91
18.8	14.97	28.79	-12.05	-13.71	2.87	0.98	24.46	15.82	3.85
18.9	14.88	28.78	-11.39	-13.44	2.86	0.98	24.29	15.82	3.97
19.0	14.80	28.85	-10.79	-13.18	2.87	0.99	24.66	16.00	3.96
19.1	14.71	28.78	-10.24	-12.97	2.84	1.00	24.68	16.41	4.07
19.2	14.59	28.82	-9.76	-12.86	2.85	1.01	25.13	16.40	4.06
19.3	14.49	28.81	-9.33	-12.80	2.85	1.02	24.54	16.40	4.17
19.4	14.37	28.88	-8.94	-12.78	2.87	1.03	24.59	16.35	4.19
19.5	14.24	28.91	-8.58	-12.78	2.88	1.04	24.41	16.36	4.29
19.6	14.13	28.96	-8.31	-12.85	2.90	1.06	24.69	16.38	4.24
19.7	14.02	28.92	-8.08	-13.07	2.91	1.07	25.03	16.53	4.37
19.8	13.93	28.98	-7.86	-13.34	2.93	1.08	25.44	16.63	4.31
19.9	13.80	29.02	-7.67	-13.68	2.97	1.10	25.18	16.23	4.48
20.0	13.68	29.10	-7.48	-13.95	3.01	1.11	24.85	16.21	4.42

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: $V_{DD} = +5.25V$, $I_{DD} = 85mA$ @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.1	12.04	58.97	-2.43	-22.91	47.76	1.56	32.97	20.78	9.79
0.2	14.02	73.38	-5.50	-30.64	337.60	1.28	32.65	20.24	6.49
0.3	14.68	67.30	-7.91	-32.22	181.90	1.16	30.54	20.13	5.37
0.4	14.93	59.93	-9.72	-31.56	80.80	1.11	33.70	19.98	5.07
0.5	15.08	68.37	-11.07	-30.39	216.86	1.08	32.87	19.90	4.83
1.0	15.28	59.82	-14.03	-25.55	83.17	1.04	32.41	19.99	4.36
1.5	15.35	55.41	-14.01	-25.87	50.04	1.04	32.73	20.14	3.85
2.0	15.35	52.11	-12.19	-25.24	33.90	1.06	33.34	20.07	3.46
2.5	15.04	49.43	-9.98	-25.49	25.03	1.10	33.17	20.04	3.27
3.0	13.98	48.71	-9.67	-28.76	26.27	1.11	33.47	20.10	3.57
3.5	13.37	48.55	-10.83	-31.11	28.87	1.08	33.35	19.86	3.77
4.0	13.31	47.95	-11.70	-32.48	27.85	1.07	33.02	19.90	3.70
4.5	13.33	47.71	-12.00	-30.61	27.23	1.06	33.15	19.87	3.44
5.0	13.39	46.80	-12.16	-29.33	24.44	1.06	33.15	19.98	3.08
5.5	13.47	46.01	-12.48	-28.54	22.23	1.05	33.59	19.91	2.65
6.0	13.57	45.01	-13.05	-25.18	19.73	1.05	32.39	19.86	2.42
6.5	13.64	44.10	-13.92	-21.79	17.79	1.03	31.28	19.87	2.16
7.0	13.69	43.03	-14.97	-19.17	15.75	1.02	31.96	19.40	2.06
7.5	13.73	42.73	-16.04	-17.72	15.22	1.01	31.73	19.14	1.91
8.0	13.80	41.96	-16.96	-17.12	13.91	1.00	31.24	19.16	1.89
8.5	13.91	41.03	-17.62	-17.33	12.44	1.00	31.73	19.06	1.96
9.0	14.09	40.07	-18.25	-18.29	11.05	1.00	31.24	19.07	2.02
9.5	14.28	39.00	-18.27	-18.93	9.63	1.00	31.21	19.00	2.20
10.0	14.41	38.12	-17.11	-18.22	8.57	1.00	30.26	18.81	2.45
10.5	14.46	37.29	-15.35	-17.09	7.67	1.00	30.82	19.02	2.56
11.0	14.47	36.43	-13.68	-16.59	6.86	1.02	30.52	18.40	2.81
11.5	14.42	35.99	-12.27	-16.89	6.47	1.03	30.01	18.50	2.89
12.0	14.35	35.45	-11.10	-18.09	6.07	1.06	30.15	18.66	3.04
12.5	14.23	35.07	-10.24	-18.75	5.84	1.08	30.88	18.94	3.12
13.0	14.09	34.89	-9.65	-18.43	5.76	1.09	30.59	19.28	3.18
13.5	13.91	34.60	-9.52	-17.49	5.67	1.09	31.54	19.18	3.18
14.0	13.78	34.23	-9.74	-16.84	5.56	1.08	30.29	19.03	3.20
14.5	13.74	33.97	-10.23	-16.88	5.52	1.07	30.87	18.55	3.07
15.0	13.79	33.60	-10.98	-17.31	5.38	1.06	29.97	17.68	3.09
15.5	13.92	33.04	-11.92	-17.84	5.09	1.04	29.16	17.05	3.13
16.0	14.12	32.35	-13.10	-18.28	4.71	1.03	29.20	16.96	3.12
16.5	14.34	31.67	-14.99	-18.46	4.35	1.01	28.83	16.90	3.07
17.0	14.60	30.97	-18.38	-18.94	4.00	0.99	27.29	16.72	3.21
17.5	14.85	30.27	-24.51	-19.52	3.66	0.98	26.63	16.33	3.29
18.0	15.00	29.65	-21.61	-17.66	3.35	0.96	25.49	15.98	3.52
18.1	15.02	29.45	-19.49	-17.21	3.27	0.96	25.78	16.09	3.53
18.2	15.01	29.43	-18.33	-16.62	3.25	0.96	25.25	15.85	3.64
18.3	15.00	29.33	-16.90	-16.20	3.20	0.97	25.39	15.92	3.71
18.4	14.97	29.22	-15.69	-15.69	3.14	0.97	25.40	16.28	3.73
18.5	14.93	29.17	-14.62	-15.17	3.11	0.97	25.40	16.23	3.78
18.6	14.88	29.14	-13.67	-14.70	3.09	0.97	24.93	16.08	3.76
18.7	14.81	29.16	-12.73	-14.24	3.08	0.98	24.87	16.25	3.91
18.8	14.75	29.07	-11.97	-13.86	3.03	0.98	24.55	16.14	3.96
18.9	14.66	29.07	-11.33	-13.62	3.03	0.99	24.47	16.14	3.96
19.0	14.58	29.13	-10.73	-13.37	3.03	1.00	24.47	16.32	4.01
19.1	14.49	29.09	-10.22	-13.21	3.02	1.01	25.22	16.74	4.01
19.2	14.38	29.15	-9.74	-13.13	3.03	1.02	25.02	16.72	4.07
19.3	14.28	29.10	-9.33	-13.06	3.02	1.03	24.95	16.73	4.14
19.4	14.16	29.13	-8.95	-13.05	3.03	1.04	24.64	16.68	4.24
19.5	14.03	29.26	-8.60	-13.06	3.07	1.05	24.88	16.69	4.26
19.6	13.92	29.17	-8.32	-13.13	3.05	1.06	24.76	16.71	4.27
19.7	13.82	29.32	-8.11	-13.36	3.12	1.07	25.61	16.85	4.26
19.8	13.72	29.30	-7.90	-13.63	3.12	1.09	25.46	16.96	4.37
19.9	13.61	29.30	-7.70	-14.00	3.14	1.10	24.70	16.58	4.52
20.0	13.49	29.46	-7.52	-14.27	3.21	1.11	25.38	16.56	4.48

Typical Performance Data

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Definitions:

Input Return Loss = S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +4.75V$, $I_{DD} = 85mA$ @ Temperature = $-45^{\circ}C$

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.1	12.91	68.42	-2.51	-18.85	129.97	1.54	29.08	19.73	8.36
0.2	14.90	70.28	-5.55	-24.14	213.38	1.27	28.62	19.38	5.50
0.3	15.58	65.51	-8.04	-25.28	133.41	1.15	28.93	19.30	4.45
0.4	15.85	63.88	-9.92	-25.06	114.65	1.10	29.37	19.17	4.28
0.5	15.99	65.44	-11.35	-24.44	139.22	1.07	28.78	19.12	4.08
1.0	16.24	83.45	-14.84	-21.92	1127.45	1.03	29.52	19.03	3.66
1.5	16.37	72.04	-15.34	-21.93	302.43	1.02	29.09	19.10	3.25
2.0	16.43	62.29	-13.56	-20.93	96.92	1.04	28.45	18.93	2.93
2.5	16.31	56.77	-11.03	-20.06	50.49	1.07	28.26	19.09	2.68
3.0	15.32	55.54	-10.45	-21.39	49.21	1.08	28.91	18.70	3.04
3.5	14.72	56.67	-11.50	-22.53	62.10	1.07	28.57	18.85	3.31
4.0	14.69	57.41	-12.44	-25.31	70.01	1.05	28.33	18.90	3.21
4.5	14.76	54.80	-12.97	-27.35	52.28	1.05	28.00	18.84	2.96
5.0	14.89	52.54	-13.38	-28.85	40.28	1.04	28.38	18.75	2.72
5.5	15.00	51.80	-13.78	-27.81	36.86	1.04	28.01	18.89	2.34
6.0	15.16	50.62	-14.26	-26.93	31.86	1.04	27.89	18.86	1.99
6.5	15.25	49.51	-14.86	-24.65	27.90	1.03	27.59	18.39	1.85
7.0	15.33	49.25	-15.67	-22.19	26.98	1.02	27.73	18.09	1.71
7.5	15.36	48.70	-16.53	-20.76	25.34	1.01	27.67	17.85	1.63
8.0	15.40	47.73	-16.96	-19.77	22.61	1.01	27.71	17.73	1.52
8.5	15.46	46.35	-16.67	-19.49	19.18	1.01	27.20	17.75	1.44
9.0	15.58	44.84	-16.31	-19.96	15.99	1.01	26.99	17.67	1.38
9.5	15.76	43.69	-16.31	-20.45	13.81	1.01	26.85	17.49	1.41
10.0	15.92	42.79	-16.38	-19.80	12.27	1.01	26.61	17.38	1.58
10.5	16.06	41.66	-16.24	-17.80	10.58	1.00	26.70	17.64	1.68
11.0	16.18	40.61	-15.69	-15.86	9.16	1.00	27.02	17.28	1.77
11.5	16.29	40.09	-14.64	-14.89	8.42	1.00	27.25	17.37	1.95
12.0	16.40	39.41	-13.36	-15.28	7.64	1.01	26.93	17.36	2.02
12.5	16.48	38.74	-12.17	-16.46	6.98	1.03	26.48	17.08	2.20
13.0	16.52	38.36	-11.17	-17.05	6.57	1.05	25.96	17.42	2.30
13.5	16.51	37.84	-10.56	-16.28	6.13	1.06	26.12	17.33	2.34
14.0	16.42	37.83	-10.14	-14.96	6.09	1.06	26.17	17.46	2.40
14.5	16.36	37.54	-9.87	-14.43	5.90	1.06	27.41	17.35	2.38
15.0	16.34	37.30	-10.01	-14.28	5.77	1.06	28.75	17.10	2.34
15.5	16.42	36.85	-10.63	-14.09	5.52	1.04	28.14	16.81	2.27
16.0	16.57	36.29	-11.40	-14.07	5.19	1.03	26.70	16.35	2.15
16.5	16.71	35.86	-11.84	-13.59	4.91	1.01	25.89	16.53	2.19
17.0	16.82	35.30	-12.14	-13.38	4.58	1.00	25.92	16.83	2.16
17.5	16.99	34.62	-12.85	-13.65	4.23	1.00	27.17	16.90	2.17
18.0	17.25	33.75	-15.16	-13.98	3.84	0.98	25.97	16.56	2.20
18.1	17.32	33.53	-15.84	-14.23	3.74	0.97	26.47	16.55	2.22
18.2	17.39	33.39	-16.57	-14.43	3.68	0.97	26.49	16.36	2.27
18.3	17.47	33.14	-17.17	-14.82	3.58	0.97	26.19	16.35	2.25
18.4	17.55	33.01	-18.69	-15.14	3.52	0.97	26.05	16.28	2.25
18.5	17.63	32.76	-19.43	-15.50	3.42	0.96	26.13	16.12	2.32
18.6	17.72	32.63	-21.07	-15.76	3.35	0.96	25.96	15.85	2.29
18.7	17.80	32.53	-23.08	-16.04	3.31	0.96	25.70	15.79	2.26
18.8	17.90	32.23	-25.35	-16.24	3.18	0.96	25.25	15.61	2.34
18.9	17.99	32.09	-28.38	-16.63	3.11	0.96	25.30	15.54	2.36
19.0	18.09	31.91	-34.35	-16.88	3.04	0.95	25.46	15.33	2.39
19.1	18.18	31.68	-45.86	-17.19	2.94	0.95	25.13	15.23	2.45
19.2	18.26	31.58	-32.64	-17.45	2.89	0.95	24.99	14.87	2.39
19.3	18.35	31.39	-26.87	-17.54	2.81	0.95	24.44	14.82	2.39
19.4	18.41	31.24	-23.08	-17.52	2.74	0.95	24.30	14.54	2.46
19.5	18.46	31.15	-20.34	-17.34	2.69	0.95	24.45	14.56	2.43
19.6	18.51	30.95	-18.22	-17.11	2.61	0.95	24.39	14.53	2.51
19.7	18.55	30.88	-16.53	-16.97	2.57	0.96	24.75	14.54	2.50
19.8	18.58	30.77	-14.99	-16.72	2.51	0.96	24.42	14.44	2.56
19.9	18.59	30.55	-13.64	-16.45	2.43	0.97	23.99	13.76	2.65
20.0	18.58	30.55	-12.42	-16.04	2.39	0.98	23.89	13.67	2.60

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: V_{DD} = +5.00V, I_{DD} = 85mA @ Temperature = -45°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.1	12.91	59.89	-2.49	-18.90	48.41	1.54	29.22	20.06	8.41
0.2	14.89	70.28	-5.55	-24.19	213.29	1.27	29.39	19.70	5.50
0.3	15.58	63.18	-8.01	-25.25	102.09	1.15	29.32	19.49	4.37
0.4	15.85	65.37	-9.91	-25.13	136.10	1.10	28.47	19.49	4.35
0.5	15.98	78.38	-11.36	-24.45	618.13	1.07	29.27	19.31	4.01
1.0	16.23	76.31	-14.90	-21.98	496.15	1.03	29.05	19.35	3.60
1.5	16.36	77.59	-15.47	-21.97	573.30	1.02	28.65	19.40	3.32
2.0	16.42	60.42	-13.69	-20.95	78.20	1.04	29.41	19.23	2.93
2.5	16.29	55.39	-11.07	-20.11	43.15	1.07	28.77	19.26	2.77
3.0	15.30	55.63	-10.22	-21.45	49.79	1.08	29.53	19.02	3.03
3.5	14.70	57.53	-10.99	-22.68	68.76	1.07	28.93	19.18	3.34
4.0	14.66	57.26	-11.78	-25.51	68.97	1.06	28.66	19.23	3.23
4.5	14.73	55.88	-12.35	-27.66	59.41	1.05	29.16	19.17	2.96
5.0	14.86	53.53	-12.82	-29.17	45.28	1.05	28.47	19.07	2.66
5.5	14.96	52.13	-13.25	-28.04	38.40	1.04	28.49	19.22	2.32
6.0	15.12	50.80	-13.68	-27.05	32.64	1.04	27.84	19.19	1.97
6.5	15.21	50.07	-14.24	-24.65	29.88	1.03	27.85	18.86	1.81
7.0	15.29	49.31	-14.83	-22.13	27.29	1.02	27.59	18.56	1.71
7.5	15.32	48.69	-15.28	-20.69	25.44	1.01	28.02	18.32	1.53
8.0	15.36	47.60	-15.14	-19.68	22.38	1.01	27.51	18.20	1.46
8.5	15.42	46.52	-14.57	-19.41	19.64	1.01	27.48	18.22	1.37
9.0	15.53	44.81	-14.17	-19.89	16.00	1.01	27.07	17.99	1.40
9.5	15.72	43.58	-14.12	-20.35	13.70	1.01	26.82	17.96	1.51
10.0	15.89	42.36	-14.16	-19.74	11.73	1.01	26.51	17.84	1.57
10.5	16.02	41.59	-14.10	-17.75	10.53	1.00	26.96	18.11	1.67
11.0	16.14	40.68	-13.76	-15.83	9.27	1.00	26.80	17.76	1.78
11.5	16.25	39.95	-13.06	-14.89	8.32	1.00	27.32	17.85	2.03
12.0	16.35	39.30	-12.12	-15.34	7.57	1.01	26.81	17.85	2.13
12.5	16.42	38.84	-11.24	-16.57	7.08	1.04	26.31	17.58	2.17
13.0	16.46	38.41	-10.31	-17.14	6.65	1.05	25.72	17.91	2.26
13.5	16.43	37.98	-9.57	-16.33	6.27	1.06	25.69	17.96	2.36
14.0	16.34	37.75	-8.96	-15.02	6.09	1.06	25.75	18.07	2.44
14.5	16.27	37.53	-8.58	-14.51	5.94	1.06	26.99	17.94	2.37
15.0	16.25	37.33	-8.70	-14.37	5.85	1.06	27.87	17.56	2.31
15.5	16.33	36.82	-9.46	-14.20	5.56	1.04	27.58	17.26	2.26
16.0	16.48	36.37	-10.49	-14.18	5.30	1.03	26.53	16.93	2.21
16.5	16.61	35.80	-11.49	-13.74	4.94	1.01	25.77	16.99	2.16
17.0	16.73	35.22	-12.49	-13.55	4.60	1.00	25.62	17.43	2.16
17.5	16.90	34.62	-13.96	-13.86	4.30	1.00	26.56	17.34	2.27
18.0	17.17	33.77	-17.22	-14.26	3.91	0.98	26.17	16.87	2.22
18.1	17.25	33.49	-18.30	-14.53	3.78	0.97	25.66	16.85	2.24
18.2	17.32	33.35	-19.10	-14.75	3.71	0.97	25.75	16.79	2.19
18.3	17.40	33.08	-20.29	-15.13	3.60	0.97	25.55	16.78	2.26
18.4	17.48	32.96	-22.40	-15.45	3.55	0.97	25.50	16.71	2.24
18.5	17.56	32.67	-23.48	-15.82	3.42	0.96	25.20	16.54	2.33
18.6	17.64	32.65	-25.96	-16.11	3.41	0.96	25.59	16.28	2.30
18.7	17.72	32.39	-26.84	-16.33	3.30	0.96	25.17	16.07	2.31
18.8	17.82	32.30	-26.60	-16.51	3.24	0.96	25.03	15.89	2.30
18.9	17.90	32.16	-24.94	-16.84	3.18	0.96	24.47	15.96	2.39
19.0	17.99	31.88	-22.98	-17.08	3.06	0.95	24.87	15.89	2.39
19.1	18.08	31.69	-20.72	-17.27	2.98	0.95	24.57	15.80	2.37
19.2	18.15	31.60	-18.67	-17.41	2.93	0.95	24.30	15.60	2.46
19.3	18.23	31.50	-16.85	-17.45	2.88	0.95	24.28	15.40	2.42
19.4	18.27	31.18	-15.25	-17.28	2.76	0.95	23.83	15.26	2.51
19.5	18.32	31.11	-13.87	-17.03	2.71	0.95	23.93	15.13	2.57
19.6	18.35	31.05	-12.67	-16.76	2.67	0.96	24.13	15.25	2.58
19.7	18.37	30.96	-11.67	-16.57	2.62	0.96	24.21	15.40	2.64
19.8	18.39	30.83	-10.69	-16.32	2.56	0.97	24.05	15.46	2.54
19.9	18.39	30.79	-9.87	-16.04	2.52	0.98	23.64	14.77	2.60
20.0	18.36	30.78	-9.12	-15.66	2.48	0.99	23.34	14.68	2.68

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: $V_{DD} = +5.25V$, $I_{DD} = 85mA$ @ Temperature = $-45^{\circ}C$

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.1	12.85	70.37	-2.50	-18.88	163.63	1.54	29.65	20.23	8.39
0.2	14.83	72.48	-5.54	-24.19	276.58	1.27	29.86	19.85	5.51
0.3	15.51	69.19	-8.02	-25.27	205.38	1.15	29.53	19.79	4.64
0.4	15.79	64.62	-9.89	-25.04	125.51	1.10	29.33	19.65	4.33
0.5	15.92	64.23	-11.31	-24.47	122.02	1.07	29.46	19.60	4.09
1.0	16.17	71.07	-14.74	-21.98	273.49	1.03	29.69	19.65	3.72
1.5	16.29	76.21	-15.17	-22.00	492.64	1.02	29.27	19.55	3.28
2.0	16.34	59.96	-13.37	-21.00	74.74	1.04	29.40	19.52	2.96
2.5	16.21	55.96	-10.88	-20.22	46.43	1.07	29.52	19.54	2.78
3.0	15.21	56.31	-10.30	-21.58	54.29	1.09	29.31	19.31	3.05
3.5	14.61	56.91	-11.33	-22.81	64.54	1.07	29.64	19.48	3.30
4.0	14.56	57.41	-12.25	-25.73	70.78	1.06	28.76	19.52	3.17
4.5	14.64	54.51	-12.77	-27.95	51.19	1.05	28.52	19.46	2.90
5.0	14.76	53.47	-13.17	-29.53	45.42	1.05	28.88	19.36	2.59
5.5	14.87	51.79	-13.55	-28.30	37.30	1.04	28.71	19.51	2.37
6.0	15.02	50.91	-14.01	-27.21	33.41	1.04	28.02	19.47	2.00
6.5	15.11	49.82	-14.65	-24.64	29.33	1.03	28.11	19.15	1.86
7.0	15.19	49.50	-15.48	-22.10	28.21	1.02	27.96	18.85	1.76
7.5	15.22	48.20	-16.39	-20.59	24.30	1.01	28.00	18.61	1.57
8.0	15.26	47.58	-16.87	-19.58	22.56	1.01	27.60	18.63	1.49
8.5	15.31	46.05	-16.64	-19.34	18.83	1.01	27.62	18.50	1.47
9.0	15.44	45.06	-16.35	-19.78	16.66	1.01	27.21	18.42	1.46
9.5	15.63	43.83	-16.40	-20.32	14.24	1.01	26.66	18.25	1.50
10.0	15.80	42.54	-16.43	-19.68	12.10	1.01	26.52	18.12	1.55
10.5	15.93	41.53	-16.20	-17.70	10.57	1.00	26.35	18.39	1.72
11.0	16.04	40.70	-15.51	-15.81	9.39	1.00	26.45	18.20	1.86
11.5	16.14	39.88	-14.39	-14.92	8.35	1.00	26.84	18.15	2.00
12.0	16.23	39.31	-13.04	-15.43	7.67	1.02	26.28	18.28	2.13
12.5	16.29	38.81	-11.87	-16.72	7.15	1.04	26.00	18.03	2.20
13.0	16.31	38.39	-10.90	-17.29	6.73	1.06	25.67	18.35	2.40
13.5	16.27	37.99	-10.35	-16.42	6.38	1.06	25.59	18.38	2.36
14.0	16.17	37.78	-9.97	-15.10	6.22	1.06	25.28	18.47	2.37
14.5	16.09	37.65	-9.77	-14.63	6.15	1.06	25.79	18.34	2.37
15.0	16.07	37.38	-9.97	-14.52	6.01	1.06	27.26	17.96	2.31
15.5	16.15	36.88	-10.67	-14.37	5.73	1.04	27.18	17.64	2.26
16.0	16.30	36.43	-11.55	-14.36	5.46	1.03	26.59	17.31	2.19
16.5	16.43	35.79	-12.08	-13.92	5.06	1.01	25.53	17.51	2.18
17.0	16.56	35.32	-12.51	-13.79	4.77	1.00	24.95	17.82	2.14
17.5	16.74	34.65	-13.47	-14.16	4.42	1.00	25.18	17.61	2.19
18.0	17.01	33.81	-16.42	-14.60	4.02	0.98	24.60	17.24	2.26
18.1	17.09	33.53	-17.32	-14.89	3.89	0.97	24.59	17.23	2.28
18.2	17.16	33.28	-18.29	-15.09	3.78	0.97	24.68	17.03	2.30
18.3	17.24	33.16	-19.12	-15.50	3.72	0.97	24.50	17.15	2.28
18.4	17.32	33.03	-21.28	-15.79	3.66	0.97	24.46	16.94	2.31
18.5	17.39	32.77	-22.48	-16.15	3.54	0.96	24.51	16.91	2.35
18.6	17.46	32.59	-25.20	-16.42	3.47	0.96	24.02	16.50	2.35
18.7	17.54	32.42	-28.90	-16.60	3.38	0.96	24.01	16.43	2.38
18.8	17.63	32.21	-34.41	-16.70	3.29	0.96	23.91	16.23	2.40
18.9	17.70	32.04	-42.25	-16.95	3.21	0.96	23.77	16.16	2.44
19.0	17.78	31.94	-33.25	-17.10	3.16	0.95	24.08	16.24	2.44
19.1	17.85	31.69	-27.51	-17.21	3.05	0.95	23.56	16.16	2.48
19.2	17.91	31.53	-23.75	-17.20	2.98	0.95	23.48	16.09	2.43
19.3	17.97	31.50	-21.12	-17.10	2.95	0.95	23.06	15.89	2.44
19.4	18.00	31.41	-18.93	-16.90	2.90	0.96	22.75	15.75	2.55
19.5	18.02	31.27	-17.09	-16.53	2.83	0.96	22.72	15.76	2.64
19.6	18.04	31.03	-15.59	-16.22	2.73	0.96	23.05	15.87	2.60
19.7	18.04	31.09	-14.33	-16.05	2.73	0.97	23.14	16.01	2.62
19.8	18.05	30.94	-13.16	-15.83	2.66	0.98	23.02	16.06	2.60
19.9	18.02	31.00	-12.09	-15.61	2.65	0.99	22.56	15.51	2.74
20.0	17.97	30.90	-11.13	-15.29	2.59	1.00	22.50	15.54	2.72

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: $V_{DD} = +4.75V$, $I_{DD} = 85mA$ @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.1	11.96	67.54	-2.40	-23.61	128.02	1.57	31.86	20.48	10.97
0.2	13.94	70.31	-5.50	-31.20	239.24	1.28	31.03	19.97	7.29
0.3	14.59	64.61	-7.92	-32.45	134.87	1.16	31.92	19.84	6.01
0.4	14.84	59.69	-9.74	-32.17	79.47	1.11	35.23	19.70	5.61
0.5	14.97	66.84	-11.10	-31.15	184.42	1.08	31.80	19.75	5.43
1.0	15.16	56.66	-14.04	-26.24	58.75	1.04	32.56	19.67	4.83
1.5	15.23	53.85	-14.04	-26.73	42.57	1.04	32.24	19.85	4.32
2.0	15.22	51.30	-12.21	-26.52	31.46	1.06	32.56	19.89	3.93
2.5	14.86	48.25	-10.07	-27.57	22.51	1.10	31.26	19.76	3.71
3.0	13.78	46.92	-9.91	-32.50	22.23	1.10	33.07	19.63	4.10
3.5	13.20	46.69	-11.17	-34.65	24.13	1.08	33.13	19.43	4.33
4.0	13.14	46.21	-12.04	-31.50	23.37	1.06	32.71	19.40	4.18
4.5	13.15	45.79	-12.33	-28.44	22.29	1.06	32.61	19.51	3.89
5.0	13.20	44.52	-12.41	-27.07	19.16	1.05	33.79	19.46	3.49
5.5	13.27	43.74	-12.73	-26.16	17.49	1.05	32.19	19.40	3.12
6.0	13.37	42.82	-13.31	-23.57	15.67	1.04	32.51	19.49	2.70
6.5	13.43	42.05	-14.32	-20.72	14.39	1.03	32.53	19.36	2.59
7.0	13.49	41.20	-15.52	-18.50	13.08	1.01	32.45	19.03	2.50
7.5	13.53	40.76	-16.74	-17.22	12.43	1.00	31.93	18.80	2.39
8.0	13.60	39.69	-17.67	-16.79	10.97	0.99	31.63	18.79	2.30
8.5	13.71	38.97	-18.39	-17.10	10.05	0.99	30.51	18.71	2.43
9.0	13.88	38.08	-19.02	-17.99	9.01	0.99	32.01	18.72	2.53
9.5	14.06	37.14	-18.87	-18.52	8.00	0.99	31.42	18.61	2.69
10.0	14.16	36.43	-17.36	-17.88	7.29	1.00	30.39	18.39	2.90
10.5	14.19	35.83	-15.37	-17.13	6.72	1.00	30.38	18.56	3.16
11.0	14.17	35.08	-13.52	-16.98	6.12	1.02	29.83	18.07	3.40
11.5	14.10	34.62	-12.09	-17.46	5.80	1.04	30.41	18.29	3.51
12.0	14.00	34.20	-11.00	-18.51	5.54	1.06	29.71	18.41	3.66
12.5	13.86	33.78	-10.31	-18.74	5.34	1.07	30.54	18.48	3.72
13.0	13.71	33.58	-9.82	-18.11	5.26	1.08	30.65	18.66	3.76
13.5	13.56	33.37	-9.78	-17.44	5.23	1.08	30.99	18.42	3.78
14.0	13.46	33.00	-10.05	-17.34	5.12	1.07	29.96	18.28	3.73
14.5	13.45	32.58	-10.61	-18.04	4.97	1.07	30.33	17.86	3.71
15.0	13.51	32.18	-11.36	-18.93	4.81	1.05	30.49	17.37	3.65
15.5	13.62	31.57	-12.22	-19.36	4.51	1.04	28.62	17.14	3.61
16.0	13.79	30.97	-13.22	-19.23	4.20	1.03	29.73	16.98	3.66
16.5	14.01	30.38	-15.18	-19.46	3.91	1.01	28.27	16.78	3.74
17.0	14.26	29.66	-18.94	-20.52	3.60	0.99	26.57	16.43	3.85
17.5	14.49	28.97	-23.40	-20.58	3.29	0.97	26.22	16.17	4.08
18.0	14.59	28.46	-18.35	-17.13	3.05	0.96	25.69	15.77	4.25
18.1	14.57	28.26	-16.84	-16.45	2.97	0.96	25.18	15.87	4.30
18.2	14.56	28.31	-16.06	-15.76	2.97	0.96	25.70	15.61	4.35
18.3	14.52	28.19	-15.01	-15.30	2.92	0.96	25.68	15.79	4.44
18.4	14.48	28.15	-14.17	-14.77	2.89	0.96	25.28	15.85	4.48
18.5	14.42	28.16	-13.38	-14.26	2.89	0.97	25.05	15.80	4.51
18.6	14.35	28.11	-12.69	-13.83	2.87	0.97	24.57	15.60	4.56
18.7	14.27	28.09	-11.95	-13.42	2.85	0.97	24.81	15.61	4.65
18.8	14.19	28.04	-11.36	-13.12	2.83	0.98	24.31	15.48	4.67
18.9	14.09	28.12	-10.87	-12.96	2.85	0.99	24.28	15.33	4.74
19.0	14.00	28.16	-10.43	-12.82	2.86	0.99	24.36	15.48	4.76
19.1	13.90	28.17	-10.05	-12.76	2.87	1.00	24.89	15.86	4.94
19.2	13.80	28.23	-9.69	-12.76	2.89	1.01	24.97	15.81	4.95
19.3	13.69	28.20	-9.37	-12.79	2.89	1.02	24.80	15.80	4.97
19.4	13.57	28.24	-9.07	-12.88	2.92	1.03	24.89	15.75	5.00
19.5	13.45	28.35	-8.81	-12.97	2.97	1.05	24.74	15.60	5.01
19.6	13.34	28.35	-8.62	-13.18	2.99	1.06	25.09	15.62	5.13
19.7	13.24	28.28	-8.44	-13.52	2.99	1.07	24.82	15.73	5.17
19.8	13.14	28.38	-8.29	-13.88	3.05	1.08	25.60	15.71	5.22
19.9	13.02	28.41	-8.14	-14.35	3.09	1.09	25.31	15.56	5.23
20.0	12.91	28.47	-8.00	-14.74	3.14	1.10	25.59	15.53	5.32

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = S22 (dB)

TEST CONDITIONS: $V_{DD} = +5.00V$, $I_{DD} = 85mA$ @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.1	11.95	62.38	-2.40	-23.24	70.61	1.57	32.26	20.84	10.96
0.2	13.92	67.28	-5.49	-30.63	168.87	1.28	31.75	20.30	7.27
0.3	14.57	70.92	-7.92	-31.88	279.36	1.16	31.78	20.17	6.02
0.4	14.82	61.93	-9.73	-31.48	103.11	1.11	33.22	20.02	5.69
0.5	14.95	68.17	-11.10	-30.57	215.43	1.08	32.31	19.94	5.35
1.0	15.14	56.85	-14.03	-25.85	60.10	1.04	32.11	20.00	4.83
1.5	15.21	53.61	-13.99	-26.40	41.44	1.04	32.43	20.16	4.30
2.0	15.20	50.11	-12.17	-26.18	27.47	1.06	32.35	20.08	3.92
2.5	14.84	48.13	-10.04	-26.97	22.22	1.10	32.18	19.96	3.75
3.0	13.76	47.53	-9.88	-31.24	23.88	1.10	33.41	19.84	4.13
3.5	13.18	47.58	-11.14	-33.11	26.77	1.08	32.92	19.64	4.35
4.0	13.12	46.83	-12.02	-31.42	25.15	1.06	32.55	19.72	4.19
4.5	13.13	46.23	-12.29	-28.85	23.49	1.06	32.61	19.71	3.87
5.0	13.18	44.89	-12.38	-27.63	20.04	1.06	32.59	19.79	3.54
5.5	13.25	44.14	-12.70	-26.70	18.34	1.05	34.22	19.60	3.14
6.0	13.35	42.84	-13.28	-24.01	15.74	1.04	33.04	19.68	2.74
6.5	13.40	42.47	-14.29	-20.98	15.13	1.03	33.45	19.68	2.58
7.0	13.47	41.77	-15.48	-18.71	14.00	1.01	32.70	19.35	2.42
7.5	13.51	41.10	-16.72	-17.38	12.97	1.00	32.08	19.12	2.40
8.0	13.58	40.04	-17.67	-16.92	11.46	0.99	31.94	18.98	2.37
8.5	13.69	39.26	-18.36	-17.21	10.44	0.99	30.47	19.02	2.43
9.0	13.85	38.50	-18.94	-18.07	9.49	0.99	30.83	19.03	2.45
9.5	14.02	37.68	-18.71	-18.62	8.54	1.00	31.41	18.92	2.67
10.0	14.12	36.74	-17.18	-17.95	7.58	1.00	30.07	18.69	2.90
10.5	14.16	36.03	-15.22	-17.19	6.91	1.01	30.10	18.87	3.15
11.0	14.13	35.31	-13.42	-16.98	6.31	1.02	30.39	18.37	3.33
11.5	14.07	34.97	-12.04	-17.42	6.06	1.04	30.07	18.46	3.53
12.0	13.96	34.46	-10.99	-18.49	5.73	1.06	30.36	18.59	3.59
12.5	13.83	34.14	-10.30	-18.84	5.58	1.08	31.38	18.67	3.72
13.0	13.67	33.85	-9.81	-18.26	5.45	1.08	30.63	18.96	3.74
13.5	13.52	33.54	-9.75	-17.54	5.35	1.08	31.05	18.72	3.79
14.0	13.41	33.24	-10.05	-17.37	5.29	1.08	31.04	18.45	3.69
14.5	13.41	32.87	-10.63	-18.07	5.16	1.07	29.75	18.02	3.67
15.0	13.46	32.40	-11.41	-18.94	4.96	1.05	30.44	17.52	3.66
15.5	13.58	31.78	-12.29	-19.41	4.64	1.04	29.00	17.27	3.63
16.0	13.74	31.21	-13.31	-19.22	4.34	1.02	29.71	17.11	3.66
16.5	13.94	30.60	-15.29	-19.25	4.04	1.01	27.73	16.89	3.69
17.0	14.17	29.92	-19.01	-20.07	3.74	0.99	26.93	16.66	3.85
17.5	14.38	29.24	-22.96	-20.09	3.43	0.97	26.56	16.25	4.03
18.0	14.44	28.79	-18.10	-17.05	3.21	0.97	25.53	15.98	4.32
18.1	14.43	28.65	-16.63	-16.43	3.14	0.97	25.54	16.08	4.23
18.2	14.41	28.60	-15.87	-15.80	3.11	0.97	25.53	15.82	4.30
18.3	14.37	28.48	-14.86	-15.37	3.07	0.97	25.61	16.01	4.46
18.4	14.32	28.47	-14.09	-14.89	3.05	0.97	25.28	16.21	4.48
18.5	14.26	28.40	-13.29	-14.44	3.02	0.97	25.43	16.01	4.56
18.6	14.19	28.47	-12.61	-14.03	3.04	0.98	25.11	15.96	4.58
18.7	14.10	28.42	-11.89	-13.63	3.01	0.98	24.90	15.97	4.62
18.8	14.02	28.40	-11.32	-13.32	2.99	0.99	24.38	15.84	4.66
18.9	13.92	28.45	-10.82	-13.17	3.01	0.99	24.63	15.70	4.71
19.0	13.84	28.55	-10.40	-13.04	3.04	1.00	24.93	15.85	4.80
19.1	13.73	28.53	-10.02	-13.01	3.05	1.01	24.58	16.11	4.91
19.2	13.63	28.50	-9.68	-13.03	3.04	1.02	25.14	16.19	4.92
19.3	13.53	28.60	-9.35	-13.07	3.08	1.03	24.58	16.18	4.92
19.4	13.41	28.52	-9.06	-13.12	3.07	1.04	24.73	16.00	5.03
19.5	13.29	28.54	-8.79	-13.24	3.09	1.05	24.93	15.98	4.99
19.6	13.18	28.59	-8.60	-13.44	3.13	1.06	25.22	16.00	5.06
19.7	13.08	28.65	-8.44	-13.80	3.18	1.07	25.20	16.13	5.17
19.8	13.00	28.62	-8.30	-14.17	3.19	1.08	25.24	16.11	5.23
19.9	12.89	28.74	-8.14	-14.65	3.26	1.09	25.04	15.83	5.34
20.0	12.76	28.72	-8.01	-15.05	3.29	1.10	24.93	15.81	5.33

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: $V_{DD} = +5.25V$, $I_{DD} = 85mA$ @ Temperature = $+85^{\circ}C$

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
0.1	11.91	66.47	-2.39	-22.96	113.52	1.57	32.42	21.15	10.97
0.2	13.88	62.56	-5.49	-29.90	98.61	1.28	31.83	20.46	7.28
0.3	14.52	65.16	-7.91	-31.20	144.65	1.16	32.78	20.19	6.25
0.4	14.78	67.06	-9.72	-30.88	187.05	1.11	31.13	20.17	5.69
0.5	14.90	62.08	-11.09	-29.95	107.45	1.08	32.50	20.07	5.44
1.0	15.09	59.14	-13.99	-25.59	78.69	1.04	32.05	20.14	4.79
1.5	15.16	54.35	-13.96	-26.09	45.39	1.04	31.44	20.15	4.30
2.0	15.15	51.00	-12.13	-25.83	30.59	1.06	32.28	20.22	3.95
2.5	14.78	48.16	-10.01	-26.44	22.43	1.10	32.70	20.23	3.80
3.0	13.70	47.60	-9.85	-30.18	24.18	1.10	32.24	20.12	4.12
3.5	13.12	47.76	-11.11	-31.94	27.47	1.08	32.11	19.78	4.32
4.0	13.06	47.04	-11.98	-31.35	25.92	1.06	32.09	19.84	4.19
4.5	13.08	46.33	-12.26	-29.35	23.92	1.06	32.09	19.84	3.92
5.0	13.12	45.10	-12.35	-28.16	20.68	1.06	32.68	19.93	3.53
5.5	13.19	44.26	-12.68	-27.11	18.71	1.05	32.61	19.87	3.15
6.0	13.30	43.36	-13.26	-24.26	16.82	1.04	32.98	19.82	2.77
6.5	13.35	42.80	-14.27	-21.17	15.82	1.03	32.62	19.82	2.60
7.0	13.41	41.83	-15.47	-18.88	14.19	1.01	31.78	19.49	2.38
7.5	13.45	41.12	-16.73	-17.53	13.10	1.00	31.73	19.25	2.39
8.0	13.52	40.62	-17.68	-17.04	12.34	0.99	31.51	19.12	2.36
8.5	13.62	39.61	-18.38	-17.31	10.95	0.99	30.98	19.15	2.41
9.0	13.78	38.74	-18.91	-18.16	9.84	0.99	30.70	19.15	2.50
9.5	13.96	37.92	-18.61	-18.71	8.84	1.00	31.71	19.05	2.70
10.0	14.05	36.95	-17.04	-18.05	7.83	1.00	30.77	18.82	2.91
10.5	14.08	36.17	-15.09	-17.25	7.08	1.01	30.97	18.99	3.12
11.0	14.06	35.72	-13.34	-17.01	6.66	1.02	30.40	18.49	3.33
11.5	13.99	35.11	-11.99	-17.40	6.21	1.04	30.18	18.57	3.49
12.0	13.89	34.71	-10.97	-18.51	5.95	1.06	30.64	18.82	3.64
12.5	13.75	34.32	-10.28	-18.93	5.75	1.08	31.00	18.91	3.65
13.0	13.59	34.07	-9.80	-18.42	5.64	1.08	30.49	19.08	3.64
13.5	13.43	33.82	-9.74	-17.68	5.58	1.08	31.33	18.84	3.74
14.0	13.32	33.50	-10.05	-17.44	5.50	1.08	29.67	18.69	3.67
14.5	13.32	33.06	-10.65	-18.11	5.33	1.07	29.91	18.10	3.69
15.0	13.38	32.61	-11.45	-18.97	5.13	1.05	30.13	17.58	3.68
15.5	13.49	31.97	-12.37	-19.45	4.80	1.04	28.54	17.17	3.68
16.0	13.64	31.38	-13.40	-19.22	4.47	1.02	28.63	17.01	3.60
16.5	13.82	30.72	-15.38	-19.14	4.15	1.01	28.58	16.78	3.69
17.0	14.04	30.11	-19.03	-19.74	3.87	0.99	26.88	16.53	3.85
17.5	14.22	29.44	-22.38	-19.66	3.57	0.98	26.28	16.24	4.13
18.0	14.25	29.00	-17.76	-16.90	3.35	0.97	25.56	15.96	4.21
18.1	14.23	28.85	-16.37	-16.36	3.28	0.97	25.41	16.06	4.34
18.2	14.21	28.76	-15.67	-15.74	3.24	0.97	25.82	15.80	4.38
18.3	14.16	28.75	-14.70	-15.38	3.22	0.97	25.46	15.99	4.44
18.4	14.11	28.65	-13.96	-14.95	3.18	0.97	25.56	16.05	4.48
18.5	14.04	28.65	-13.18	-14.53	3.18	0.98	25.63	16.13	4.58
18.6	13.97	28.61	-12.55	-14.15	3.16	0.98	25.05	15.95	4.54
18.7	13.88	28.61	-11.84	-13.76	3.15	0.99	25.31	16.10	4.68
18.8	13.80	28.54	-11.27	-13.48	3.12	0.99	24.70	15.99	4.67
18.9	13.70	28.63	-10.79	-13.34	3.15	1.00	24.78	15.98	4.74
19.0	13.62	28.70	-10.39	-13.23	3.18	1.01	24.68	16.14	4.81
19.1	13.52	28.67	-10.01	-13.20	3.18	1.01	24.90	16.25	4.93
19.2	13.41	28.69	-9.67	-13.24	3.19	1.02	25.36	16.33	4.99
19.3	13.31	28.71	-9.36	-13.29	3.21	1.03	24.85	16.34	4.96
19.4	13.19	28.73	-9.06	-13.36	3.23	1.04	24.93	16.29	5.02
19.5	13.08	28.76	-8.80	-13.46	3.25	1.06	24.97	16.28	5.07
19.6	12.97	28.84	-8.61	-13.65	3.30	1.07	24.72	16.18	5.16
19.7	12.87	28.87	-8.47	-14.04	3.34	1.08	25.37	16.30	5.23
19.8	12.79	28.85	-8.31	-14.45	3.36	1.09	25.67	16.41	5.20
19.9	12.68	28.91	-8.17	-14.94	3.41	1.10	25.41	16.15	5.29
20.0	12.55	28.92	-8.05	-15.34	3.45	1.11	25.56	16.13	5.28