Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = -S11 (dB)
Gain(Power Gain) = S21 (dB)
Reverse Isolation = -S12 (dB)
Output Return Loss = -S22 (dB)

TEST CONDITIONS: Vd = 3.00V, Id = 11.07mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
9000	12.50	26.26	9.87	8.30	2.08	0.85	22.17	6.49	1.30
9500	13.48	24.45	12.12	13.84	1.78	0.91	23.96	7.60	1.27
9600	13.56	24.26	12.56	14.76	1.75	0.91	24.40	7.77	1.26
9700	13.64	24.08	12.95	15.40	1.72	0.91	24.08	7.90	1.25
9800	13.70	23.89	13.31	15.68	1.69	0.90	24.06	8.39	1.30
9900	13.68	23.80	13.62	15.86	1.68	0.90	24.74	8.44	1.24
10000	13.71	23.66	13.86	15.71	1.65	0.89	24.31	8.03	1.30
10100	13.71	23.58	14.17	15.59	1.64	0.89	24.49	8.30	1.31
10200	13.70	23.52	14.38	15.25	1.64	0.88	24.44	8.53	1.25
10300	13.71	23.42	14.58	15.17	1.62	0.88	24.83	8.56	1.24
10400	13.71	23.37	14.82	15.11	1.61	0.88	24.63	8.75	1.26
10500	13.70	23.32	14.92	15.06	1.61	0.87	24.52	8.67	1.25
10600	13.69	23.28	15.06	15.09	1.60	0.87	24.92	8.46	1.30
10700	13.68	23.26	15.23	15.21	1.61	0.87	24.72	8.45	1.28
10800	13.68	23.27	15.33	15.39	1.61	0.87	24.54	8.62	1.30
10900	13.69	23.21	15.43	15.67	1.60	0.87	25.55	8.11	1.28
11000	13.69	23.19	15.56	16.01	1.60	0.88	25.35	8.03	1.23
11100	13.68	23.19	15.70	16.48	1.61	0.88	25.68	7.93	1.24
11200	13.68	23.20	15.86	17.07	1.61	0.88	25.32	8.20	1.24
11300	13.70	23.24	16.11	17.83	1.62	0.89	25.26	8.06	1.22
11400	13.69	23.23	16.46	18.91	1.63	0.89	25.09	8.03	1.28
11500	13.71	23.23	16.80	20.33	1.63	0.89	24.71	8.11	1.26
11600	13.72	23.26	17.11	22.09	1.64	0.90	24.83	7.61	1.30
11700	13.73	23.29	17.38	24.68	1.64	0.90	24.72	7.79	1.24
11800	13.72	23.30	17.62	27.68	1.65	0.90	23.89	7.75	1.26
11900	13.73	23.38	18.27	32.44	1.66	0.90	24.72	7.40	1.31
12000	13.74	23.46	18.67	33.15	1.67	0.91	24.15	7.62	1.29
12100	13.72	23.51	19.12	28.44	1.68	0.91	23.62	6.78	1.25
12200	13.71	23.62	19.75	24.76	1.70	0.91	23.61	6.86	1.20
12300	13.69	23.69	20.31	21.83	1.71	0.90	23.80	7.14	1.26
12400	13.68	23.81	21.06	19.62	1.73	0.90	23.07	6.54	1.23
12500	13.66	23.96	21.69	17.80	1.74	0.90	22.05	6.99	1.21
12600	13.62	24.09	22.53	16.15	1.76	0.90	22.02	6.93	1.25
12700	13.56	24.21	23.60	14.77	1.78	0.89	21.60	6.27	1.34
12800	13.50	24.40	24.79	13.60	1.81	0.88	20.58	5.94	1.33
12900	13.44	24.59	26.12	12.54	1.83	0.87	21.11	6.10	1.35
13000	13.38	24.81	27.65	11.62	1.86	0.87	20.57	5.81	1.35
13500	12.85	26.12	33.34	8.19	2.06	0.80	17.63	4.26	1.38
14000	12.01	27.93	23.17	5.72	2.35	0.71	15.12	2.87	1.47
14500	10.88	30.17	17.76	4.01	2.78	0.60	13.30	1.42	1.58
15000	9.42	32.42	14.54	2.87	3.29	0.50	12.21	0.23	1.69

Typical Performance Data

Definitions:
Input Return Loss = -S11 (dB)
Gain(Power Gain) = S21 (dB)
Reverse Isolation = -S12 (dB)
Output Return Loss = -S22 (dB)

TEST CONDITIONS: Vd = 2.70V, Id = 9.42mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
9000	12.19	25.97	9.36	8.51	2.08	0.87	20.48	5.43	1.34
9500	13.14	24.21	11.53	14.43	1.79	0.93	21.81	6.56	1.33
9600	13.22	24.03	11.93	15.48	1.77	0.93	22.23	6.72	1.31
9700	13.29	23.85	12.29	16.20	1.73	0.92	21.92	6.87	1.29
9800	13.35	23.67	12.63	16.63	1.70	0.92	22.09	7.33	1.35
9900	13.34	23.59	12.92	16.86	1.70	0.92	22.40	7.38	1.30
10000	13.36	23.45	13.13	16.72	1.67	0.91	22.04	6.99	1.36
10100	13.36	23.38	13.41	16.60	1.66	0.91	22.34	7.27	1.39
10200	13.34	23.34	13.60	16.21	1.66	0.90	22.33	7.49	1.34
10300	13.35	23.24	13.79	16.10	1.65	0.90	22.46	7.52	1.31
10400	13.35	23.19	13.97	16.08	1.64	0.89	22.21	7.69	1.34
10500	13.34	23.14	14.07	16.04	1.63	0.89	22.32	7.62	1.32
10600	13.33	23.11	14.21	16.09	1.63	0.89	22.23	7.44	1.35
10700	13.32	23.09	14.36	16.25	1.63	0.89	22.16	7.42	1.38
10800	13.31	23.11	14.47	16.48	1.64	0.89	22.14	7.57	1.35
10900	13.32	23.06	14.57	16.80	1.64	0.89	22.68	7.09	1.35
11000	13.31	23.04	14.67	17.23	1.64	0.89	22.52	7.01	1.29
11100	13.30	23.03	14.83	17.80	1.64	0.90	22.56	6.91	1.34
11200	13.30	23.05	14.96	18.51	1.65	0.90	22.32	7.17	1.30
11300	13.31	23.10	15.19	19.44	1.66	0.90	22.40	7.03	1.29
11400	13.30	23.09	15.47	20.77	1.66	0.91	22.14	6.99	1.31
11500	13.31	23.10	15.82	22.56	1.67	0.91	21.84	7.04	1.29
11600	13.31	23.14	16.10	24.83	1.68	0.91	21.64	6.57	1.35
11700	13.32	23.17	16.35	28.25	1.68	0.91	21.65	6.73	1.31
11800	13.30	23.19	16.55	31.13	1.69	0.92	20.96	6.68	1.29
11900	13.30	23.29	17.14	31.23	1.71	0.92	21.35	6.35	1.37
12000	13.30	23.36	17.50	27.57	1.72	0.92	20.90	6.54	1.38
12100	13.27	23.42	17.92	24.07	1.73	0.92	20.33	5.74	1.28
12200	13.26	23.54	18.48	21.56	1.75	0.92	20.25	5.79	1.29
12300	13.23	23.62	19.00	19.39	1.76	0.91	20.45	6.05	1.31
12400	13.20	23.75	19.62	17.66	1.78	0.91	19.81	5.47	1.27
12500	13.17	23.90	20.10	16.20	1.80	0.91	19.37	5.86	1.29
12600	13.12	24.03	20.81	14.82	1.81	0.90	19.29	5.79	1.34
12700	13.06	24.17	21.62	13.64	1.83	0.89	18.75	5.15	1.39
12800	12.98	24.36	22.47	12.63	1.86	0.89	17.92	4.81	1.39
12900	12.91	24.56	23.36	11.69	1.89	0.88	18.36	4.92	1.41
13000	12.85	24.77	24.18	10.87	1.92	0.87	17.92	4.62	1.46
13500	12.26	26.08	26.36	7.78	2.13	0.80	15.23	3.02	1.44
14000	11.38	27.83	21.69	5.50	2.42	0.71	12.97	1.58	1.55
14500	10.23	29.96	17.21	3.91	2.83	0.60	11.24	0.11	1.65
15000	8.77	32.00	14.22	2.83	3.31	0.50	10.21	-1.11	1.74

Typical Performance Data

Definitions:
Input Return Loss = -S11 (dB)
Gain(Power Gain) = S21 (dB)
Reverse Isolation = -S12 (dB)
Output Return Loss = -S22 (dB)

TEST CONDITIONS: Vd = 3.30V, Id = 12.73mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
9000	12.72	26.49	10.29	8.11	2.09	0.84	23.02	7.40	1.28
9500	13.74	24.62	12.62	13.34	1.77	0.90	25.32	8.51	1.21
9600	13.83	24.43	13.10	14.16	1.74	0.90	25.36	8.66	1.19
9700	13.91	24.23	13.49	14.69	1.70	0.89	25.85	8.79	1.17
9800	13.97	24.04	13.88	14.97	1.67	0.89	25.71	9.31	1.24
9900	13.96	23.95	14.27	15.13	1.66	0.89	25.91	9.35	1.19
10000	13.99	23.80	14.52	14.96	1.64	0.88	25.89	8.93	1.29
10100	14.00	23.72	14.86	14.85	1.62	0.87	26.05	9.20	1.29
10200	13.98	23.67	15.08	14.51	1.62	0.87	26.11	9.47	1.23
10300	13.99	23.56	15.31	14.40	1.60	0.86	26.58	9.48	1.19
10400	13.99	23.51	15.55	14.36	1.59	0.86	26.64	9.66	1.24
10500	13.98	23.45	15.66	14.30	1.58	0.86	26.72	9.58	1.22
10600	13.98	23.41	15.83	14.30	1.58	0.86	26.93	9.36	1.25
10700	13.97	23.38	15.98	14.41	1.58	0.86	27.03	9.35	1.23
10800	13.97	23.38	16.09	14.56	1.58	0.86	26.70	9.53	1.22
10900	13.98	23.33	16.22	14.77	1.58	0.86	27.42	9.01	1.22
11000	13.98	23.30	16.33	15.08	1.58	0.86	27.38	8.93	1.17
11100	13.98	23.29	16.49	15.50	1.58	0.86	27.67	8.82	1.20
11200	13.98	23.30	16.67	16.00	1.58	0.87	27.81	9.12	1.18
11300	14.01	23.34	16.86	16.63	1.59	0.87	27.42	8.96	1.18
11400	14.01	23.31	17.23	17.55	1.59	0.87	27.62	8.93	1.22
11500	14.02	23.32	17.61	18.72	1.60	0.88	27.42	9.03	1.19
11600	14.03	23.34	17.94	20.17	1.60	0.88	27.97	8.51	1.24
11700	14.05	23.36	18.17	22.22	1.61	0.89	27.40	8.69	1.21
11800	14.05	23.37	18.41	24.60	1.61	0.89	26.64	8.67	1.18
11900	14.06	23.45	19.12	28.42	1.63	0.89	28.31	8.32	1.26
12000	14.08	23.52	19.59	33.75	1.64	0.90	27.52	8.55	1.26
12100	14.07	23.56	20.07	34.29	1.64	0.90	27.60	7.67	1.16
12200	14.07	23.67	20.75	28.96	1.66	0.90	26.99	7.76	1.13
12300	14.07	23.72	21.29	24.62	1.67	0.90	27.32	8.07	1.25
12400	14.06	23.85	22.10	21.67	1.68	0.90	27.11	7.45	1.19
12500	14.04	23.98	22.86	19.42	1.70	0.89	25.00	7.96	1.16
12600	14.01	24.11	23.80	17.44	1.72	0.89	24.93	7.91	1.22
12700	13.97	24.23	25.03	15.83	1.73	0.89	24.78	7.23	1.29
12800	13.92	24.41	26.37	14.50	1.76	0.88	23.32	6.89	1.29
12900	13.87	24.59	27.94	13.31	1.78	0.87	24.01	7.10	1.28
13000	13.82	24.81	30.07	12.29	1.80	0.86	23.27	6.82	1.33
13500	13.33	26.13	35.82	8.55	1.99	0.81	19.83	5.30	1.31
14000	12.53	27.98	23.29	5.89	2.28	0.71	17.05	3.98	1.41
14500	11.41	30.34	17.92	4.08	2.71	0.60	15.12	2.54	1.50
15000	9.95	32.77	14.58	2.88	3.26	0.50	13.95	1.38	1.56

Typical Performance Data

Definitions:
Input Return Loss = -S11 (dB)
Gain(Power Gain) = S21 (dB)
Reverse Isolation = -S12 (dB)
Output Return Loss = -S22 (dB)

TEST CONDITIONS: Vd = 3.00V, Id = 12.11mA @ Temperature = -45°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
9000	13.27	26.62	10.18	6.82	1.91	0.76	22.70	6.75	0.79
9500	14.45	24.51	13.06	11.69	1.63	0.84	24.91	7.99	0.75
9600	14.57	24.28	13.72	12.68	1.60	0.85	25.59	8.22	0.74
9700	14.67	24.07	14.43	13.48	1.57	0.85	25.72	8.48	0.69
9800	14.74	23.85	15.15	13.98	1.54	0.84	25.62	8.79	0.78
9900	14.75	23.73	15.91	14.42	1.53	0.84	26.93	9.03	0.73
10000	14.78	23.59	16.53	14.41	1.50	0.84	26.04	8.48	0.81
10100	14.78	23.47	17.20	14.46	1.49	0.83	27.09	9.00	0.79
10200	14.77	23.44	17.44	13.98	1.48	0.83	26.89	9.19	0.74
10300	14.75	23.35	17.62	13.65	1.47	0.82	27.12	9.08	0.73
10400	14.74	23.29	17.67	13.31	1.46	0.82	27.59	9.34	0.75
10500	14.71	23.26	17.56	13.00	1.45	0.81	27.51	9.30	0.75
10600	14.70	23.20	17.51	12.87	1.45	0.81	28.31	9.13	0.74
10700	14.68	23.18	17.46	12.89	1.45	0.81	28.39	9.33	0.73
10800	14.66	23.18	17.29	12.92	1.45	0.81	27.47	9.36	0.74
10900	14.67	23.14	16.94	12.93	1.44	0.81	29.47	8.82	0.77
11000	14.65	23.13	16.60	12.97	1.44	0.81	29.45	8.64	0.67
11100	14.65	23.11	16.48	13.18	1.44	0.81	28.42	8.39	0.72
11200	14.65	23.11	16.32	13.53	1.45	0.82	28.77	8.79	0.71
11300	14.67	23.15	16.21	14.04	1.45	0.82	27.71	8.46	0.69
11400	14.67	23.11	16.09	14.68	1.46	0.83	28.54	8.60	0.72
11500	14.71	23.11	16.51	15.47	1.46	0.83	29.79	8.77	0.73
11600	14.74	23.09	16.98	16.54	1.46	0.84	28.15	8.13	0.71
11700	14.77	23.10	17.31	17.91	1.47	0.84	29.03	8.31	0.69
11800	14.78	23.10	17.50	19.48	1.47	0.85	31.85	8.67	0.68
11900	14.81	23.16	18.40	21.96	1.48	0.86	30.49	8.03	0.78
12000	14.85	23.19	19.36	25.46	1.48	0.86	34.20	8.38	0.75
12100	14.85	23.23	20.38	31.03	1.49	0.86	32.82	7.68	0.67
12200	14.86	23.31	21.51	37.29	1.50	0.86	32.19	7.56	0.64
12300	14.87	23.36	23.01	29.46	1.51	0.86	29.70	7.55	0.71
12400	14.87	23.48	25.02	24.77	1.52	0.86	29.50	7.13	0.69
12500	14.87	23.58	26.98	21.55	1.53	0.86	30.01	8.05	0.64
12600	14.86	23.69	29.42	18.95	1.54	0.86	30.91	7.66	0.67
12700	14.83	23.82	31.18	16.88	1.56	0.85	27.05	7.04	0.76
12800	14.79	23.98	30.07	15.25	1.57	0.85	25.61	6.91	0.72
12900	14.75	24.15	28.11	13.97	1.59	0.84	26.45	7.01	0.71
13000	14.72	24.34	26.59	12.92	1.61	0.84	25.16	6.82	0.77
13500	14.39	25.52	22.36	9.25	1.74	0.79	21.40	5.48	0.74
14000	13.73	27.30	23.92	6.25	1.95	0.71	18.34	4.34	0.82
14500	12.57	29.88	20.17	3.95	2.26	0.58	15.56	2.66	0.92
15000	11.00	32.82	13.57	2.59	2.69	0.46	14.65	1.52	1.07

Typical Performance Data

Definitions:
Input Return Loss = -S11 (dB)
Gain(Power Gain) = S21 (dB)
Reverse Isolation = -S12 (dB)
Output Return Loss = -S22 (dB)

TEST CONDITIONS: Vd = 2.70V, Id = 10.27mA @ Temperature = -45°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
9000	12.98	26.37	9.59	7.02	1.92	0.78	21.30	5.67	0.83
9500	14.13	24.32	12.30	12.20	1.64	0.86	23.04	6.91	0.78
9600	14.24	24.12	12.88	13.28	1.62	0.87	23.81	7.13	0.77
9700	14.34	23.90	13.54	14.21	1.59	0.87	23.38	7.39	0.74
9800	14.41	23.70	14.16	14.75	1.56	0.86	23.80	7.68	0.79
9900	14.41	23.58	14.83	15.24	1.55	0.86	24.05	7.92	0.77
10000	14.45	23.44	15.37	15.24	1.53	0.85	23.78	7.40	0.84
10100	14.44	23.33	15.94	15.27	1.52	0.85	24.32	7.92	0.85
10200	14.43	23.30	16.18	14.74	1.51	0.84	24.27	8.09	0.77
10300	14.41	23.22	16.30	14.37	1.50	0.84	24.20	7.98	0.76
10400	14.40	23.16	16.32	14.01	1.49	0.83	24.04	8.24	0.79
10500	14.37	23.14	16.27	13.66	1.49	0.83	24.30	8.21	0.78
10600	14.36	23.08	16.23	13.54	1.48	0.83	23.87	8.06	0.82
10700	14.34	23.06	16.21	13.59	1.48	0.83	24.21	8.25	0.78
10800	14.33	23.07	16.08	13.63	1.48	0.83	24.36	8.26	0.77
10900	14.33	23.04	15.78	13.68	1.48	0.83	24.56	7.74	0.77
11000	14.30	23.03	15.51	13.75	1.48	0.83	24.63	7.58	0.74
11100	14.30	23.02	15.44	14.01	1.48	0.83	25.34	7.34	0.78
11200	14.31	23.03	15.30	14.43	1.49	0.84	24.96	7.70	0.72
11300	14.32	23.06	15.23	15.04	1.49	0.85	25.28	7.39	0.75
11400	14.32	23.05	15.17	15.78	1.50	0.85	25.07	7.51	0.74
11500	14.34	23.04	15.53	16.72	1.50	0.86	24.64	7.67	0.74
11600	14.37	23.04	15.95	18.02	1.50	0.86	24.95	7.06	0.81
11700	14.39	23.05	16.28	19.67	1.51	0.87	24.96	7.22	0.76
11800	14.39	23.06	16.50	21.63	1.51	0.87	24.29	7.58	0.72
11900	14.42	23.13	17.30	24.90	1.52	0.88	24.81	6.95	0.80
12000	14.44	23.18	18.16	29.47	1.53	0.88	24.44	7.28	0.81
12100	14.44	23.22	19.06	32.47	1.54	0.88	23.40	6.62	0.69
12200	14.44	23.32	20.09	28.68	1.55	0.88	24.07	6.50	0.70
12300	14.44	23.37	21.34	24.19	1.56	0.88	24.34	6.46	0.75
12400	14.43	23.49	23.06	21.41	1.57	0.88	23.20	6.06	0.72
12500	14.43	23.61	24.74	19.14	1.59	0.87	22.80	6.93	0.67
12600	14.40	23.73	27.07	17.09	1.60	0.87	22.55	6.54	0.72
12700	14.36	23.85	30.61	15.40	1.61	0.86	21.59	5.95	0.81
12800	14.31	24.02	35.82	14.06	1.63	0.86	20.83	5.82	0.79
12900	14.27	24.20	39.23	12.95	1.65	0.85	21.44	5.88	0.80
13000	14.23	24.39	36.45	12.02	1.67	0.84	20.89	5.67	0.85
13500	13.85	25.60	28.22	8.70	1.81	0.79	18.04	4.29	0.78
14000	13.12	27.37	30.98	5.93	2.03	0.70	15.63	3.09	0.85
14500	11.89	29.86	20.13	3.78	2.33	0.57	13.15	1.38	0.95
15000	10.31	32.53	13.39	2.54	2.73	0.46	12.40	0.19	1.10

Typical Performance Data

Definitions:
Input Return Loss = -S11 (dB)
Gain(Power Gain) = S21 (dB)
Reverse Isolation = -S12 (dB)
Output Return Loss = -S22 (dB)

TEST CONDITIONS: Vd = 3.30V, Id = 13.97mA @ Temperature = -45°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
9000	13.42	26.76	10.56	6.70	1.91	0.75	22.00	7.70	0.76
9500	14.62	24.62	13.56	11.37	1.62	0.83	24.05	8.97	0.73
9600	14.73	24.38	14.23	12.31	1.59	0.84	24.28	9.18	0.70
9700	14.84	24.16	14.98	13.09	1.56	0.84	24.99	9.45	0.68
9800	14.92	23.96	15.79	13.52	1.52	0.83	24.60	9.76	0.75
9900	14.92	23.83	16.59	13.95	1.51	0.83	25.47	9.99	0.71
10000	14.96	23.68	17.26	13.92	1.49	0.83	24.96	9.44	0.76
10100	14.96	23.55	18.00	13.98	1.48	0.82	25.79	9.96	0.78
10200	14.94	23.53	18.28	13.52	1.47	0.82	25.96	10.15	0.74
10300	14.93	23.43	18.44	13.20	1.45	0.81	25.74	10.03	0.69
10400	14.92	23.38	18.50	12.86	1.44	0.81	26.12	10.29	0.74
10500	14.89	23.34	18.38	12.56	1.44	0.80	26.51	10.24	0.72
10600	14.88	23.28	18.31	12.41	1.43	0.80	27.04	10.07	0.73
10700	14.86	23.25	18.26	12.43	1.43	0.80	27.61	10.29	0.72
10800	14.85	23.25	18.06	12.46	1.43	0.80	26.58	10.31	0.72
10900	14.85	23.21	17.65	12.44	1.42	0.80	26.85	9.77	0.72
11000	14.83	23.19	17.27	12.47	1.42	0.80	26.17	9.59	0.69
11100	14.83	23.17	17.12	12.67	1.42	0.80	25.72	9.34	0.72
11200	14.84	23.17	16.92	12.98	1.43	0.81	25.94	9.74	0.71
11300	14.87	23.19	16.77	13.45	1.43	0.81	25.49	9.42	0.65
11400	14.87	23.16	16.66	14.03	1.43	0.82	25.84	9.54	0.68
11500	14.90	23.15	17.06	14.73	1.44	0.82	26.45	9.72	0.69
11600	14.94	23.13	17.54	15.72	1.44	0.83	25.31	9.08	0.69
11700	14.98	23.14	17.88	16.95	1.44	0.83	25.70	9.26	0.70
11800	14.99	23.13	18.05	18.34	1.45	0.84	27.47	9.63	0.66
11900	15.03	23.17	19.00	20.50	1.45	0.84	25.67	8.97	0.76
12000	15.07	23.21	19.98	23.42	1.46	0.85	26.56	9.33	0.72
12100	15.08	23.24	21.08	27.93	1.46	0.85	26.64	8.61	0.62
12200	15.09	23.32	22.20	37.40	1.48	0.85	25.80	8.49	0.62
12300	15.11	23.36	23.72	35.60	1.48	0.85	25.25	8.48	0.70
12400	15.11	23.47	25.52	27.64	1.49	0.86	25.55	8.05	0.67
12500	15.12	23.57	27.16	23.47	1.50	0.85	28.84	8.99	0.61
12600	15.12	23.67	28.54	20.34	1.51	0.85	27.28	8.58	0.69
12700	15.09	23.78	28.26	17.95	1.52	0.85	26.73	7.97	0.74
12800	15.05	23.95	26.51	16.10	1.54	0.84	28.31	7.83	0.74
12900	15.03	24.12	24.90	14.70	1.56	0.84	27.15	7.94	0.72
13000	15.00	24.30	23.65	13.56	1.57	0.83	26.75	7.75	0.77
13500	14.70	25.47	20.24	9.65	1.70	0.80	25.19	6.43	0.71
14000	14.09	27.24	21.19	6.48	1.90	0.71	21.39	5.34	0.80
14500	12.95	29.89	19.47	4.05	2.22	0.58	17.96	3.67	0.86
15000	11.38	33.01	13.48	2.64	2.69	0.46	16.93	2.55	1.01

Typical Performance Data

Definitions:
Input Return Loss = -S11 (dB)
Gain(Power Gain) = S21 (dB)
Reverse Isolation = -S12 (dB)
Output Return Loss = -S22 (dB)

TEST CONDITIONS: Vd = 3.00V, Id = 9.22mA @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
9000	11.82	25.97	9.57	9.75	2.22	0.92	19.43	5.84	1.79
9500	12.68	24.39	11.54	16.26	1.92	0.96	20.65	6.76	1.73
9600	12.75	24.22	11.85	16.95	1.88	0.95	20.54	6.84	1.76
9700	12.81	24.07	12.14	17.29	1.85	0.95	20.65	6.86	1.70
9800	12.86	23.91	12.33	17.20	1.82	0.94	20.54	7.33	1.77
9900	12.85	23.84	12.52	17.05	1.81	0.94	20.46	7.24	1.76
10000	12.87	23.72	12.66	16.67	1.79	0.93	20.83	7.12	1.81
10100	12.87	23.67	12.86	16.42	1.78	0.93	20.57	7.15	1.82
10200	12.86	23.60	13.01	16.24	1.77	0.92	20.65	7.32	1.76
10300	12.87	23.54	13.12	16.23	1.76	0.92	20.84	7.45	1.77
10400	12.88	23.49	13.33	16.39	1.76	0.92	20.56	7.49	1.79
10500	12.88	23.45	13.50	16.55	1.75	0.92	20.58	7.41	1.77
10600	12.87	23.42	13.68	16.81	1.75	0.92	20.80	7.26	1.79
10700	12.86	23.41	13.91	17.17	1.76	0.92	20.38	7.08	1.79
10800	12.87	23.42	14.16	17.70	1.76	0.92	20.29	7.25	1.78
10900	12.89	23.39	14.47	18.41	1.76	0.92	20.52	6.97	1.79
11000	12.88	23.38	14.78	19.22	1.77	0.92	20.60	6.95	1.73
11100	12.88	23.38	15.08	20.15	1.77	0.92	20.62	6.94	1.79
11200	12.89	23.43	15.47	21.36	1.78	0.93	20.24	6.93	1.77
11300	12.89	23.47	15.95	22.73	1.80	0.93	20.17	6.96	1.75
11400	12.89	23.46	16.55	25.08	1.80	0.93	19.80	6.77	1.79
11500	12.90	23.51	17.10	28.11	1.81	0.93	19.56	6.66	1.80
11600	12.90	23.56	17.63	32.56	1.82	0.93	19.53	6.45	1.82
11700	12.90	23.61	18.16	34.76	1.83	0.93	19.38	6.47	1.79
11800	12.88	23.65	18.67	30.95	1.84	0.93	18.69	6.12	1.76
11900	12.87	23.76	19.41	26.49	1.87	0.93	18.90	6.07	1.85
12000	12.87	23.86	19.76	23.62	1.88	0.93	18.52	6.00	1.82
12100	12.84	23.95	20.10	21.19	1.90	0.93	17.98	5.39	1.75
12200	12.80	24.06	20.65	19.27	1.92	0.93	17.86	5.49	1.71
12300	12.77	24.18	21.04	17.59	1.94	0.92	18.06	5.76	1.79
12400	12.73	24.34	21.32	16.14	1.96	0.92	17.49	5.23	1.75
12500	12.68	24.51	21.39	14.86	1.99	0.92	16.87	5.06	1.77
12600	12.61	24.70	21.59	13.69	2.02	0.91	16.94	5.05	1.84
12700	12.52	24.86	21.79	12.62	2.05	0.90	16.59	4.59	1.88
12800	12.43	25.08	21.91	11.71	2.09	0.89	15.92	4.18	1.86
12900	12.34	25.32	21.92	10.87	2.12	0.88	15.91	4.14	1.90
13000	12.24	25.57	21.91	10.13	2.16	0.87	15.49	3.78	1.94
13500	11.49	27.12	20.34	7.16	2.46	0.80	13.20	2.10	1.98
14000	10.45	29.02	16.59	5.11	2.88	0.71	11.03	0.48	2.11
14500	9.26	31.06	13.85	3.81	3.42	0.61	9.73	-0.86	2.23
15000	7.93	32.62	12.91	2.94	3.95	0.52	8.46	-1.92	2.30

Typical Performance Data

Definitions:
Input Return Loss = -S11 (dB)
Gain(Power Gain) = S21 (dB)
Reverse Isolation = -S12 (dB)
Output Return Loss = -S22 (dB)

TEST CONDITIONS: Vd = 2.70V, Id = 7.90mA @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
9000	11.47	25.65	9.16	10.03	2.22	0.94	17.95	4.81	1.88
9500	12.29	24.12	11.08	17.14	1.93	0.97	19.00	5.69	1.83
9600	12.36	23.97	11.36	17.98	1.90	0.97	18.97	5.78	1.84
9700	12.41	23.82	11.60	18.40	1.87	0.96	19.00	5.80	1.79
9800	12.46	23.67	11.79	18.32	1.84	0.96	18.97	6.23	1.87
9900	12.45	23.62	11.97	18.15	1.83	0.95	18.90	6.15	1.84
10000	12.47	23.50	12.09	17.72	1.81	0.95	19.16	6.05	1.91
10100	12.46	23.45	12.28	17.46	1.81	0.94	18.94	6.07	1.93
10200	12.46	23.40	12.40	17.27	1.80	0.94	18.97	6.23	1.87
10300	12.46	23.34	12.51	17.29	1.79	0.94	19.21	6.35	1.83
10400	12.47	23.30	12.70	17.48	1.79	0.94	19.04	6.38	1.89
10500	12.47	23.26	12.85	17.70	1.78	0.94	18.94	6.31	1.88
10600	12.46	23.23	13.02	18.02	1.79	0.94	19.04	6.17	1.92
10700	12.45	23.23	13.24	18.49	1.79	0.94	18.71	6.00	1.87
10800	12.45	23.25	13.46	19.16	1.80	0.94	18.55	6.13	1.88
10900	12.46	23.22	13.77	20.07	1.80	0.94	18.72	5.88	1.88
11000	12.46	23.22	14.05	21.09	1.81	0.94	18.75	5.86	1.83
11100	12.45	23.23	14.33	22.33	1.81	0.94	18.82	5.84	1.91
11200	12.45	23.28	14.68	23.92	1.83	0.94	18.41	5.82	1.87
11300	12.45	23.34	15.11	25.81	1.84	0.94	18.42	5.83	1.86
11400	12.45	23.33	15.62	29.28	1.85	0.94	18.01	5.64	1.84
11500	12.45	23.38	16.11	33.56	1.86	0.94	17.75	5.52	1.88
11600	12.44	23.44	16.56	34.59	1.87	0.94	17.70	5.32	1.90
11700	12.44	23.50	17.04	29.45	1.88	0.94	17.47	5.34	1.89
11800	12.41	23.55	17.50	25.95	1.90	0.94	16.97	4.98	1.85
11900	12.39	23.66	18.13	23.00	1.92	0.94	16.98	4.91	1.93
12000	12.38	23.77	18.45	20.88	1.94	0.94	16.67	4.82	1.92
12100	12.34	23.86	18.74	19.03	1.95	0.94	16.09	4.23	1.85
12200	12.30	23.99	19.20	17.50	1.98	0.93	15.99	4.31	1.85
12300	12.26	24.11	19.55	16.09	2.00	0.93	16.24	4.53	1.90
12400	12.20	24.28	19.80	14.86	2.03	0.92	15.61	4.03	1.88
12500	12.14	24.46	19.83	13.74	2.06	0.92	15.05	3.82	1.88
12600	12.06	24.66	19.93	12.71	2.09	0.91	15.17	3.79	1.92
12700	11.96	24.83	20.05	11.77	2.12	0.90	14.75	3.33	1.98
12800	11.85	25.06	20.09	10.95	2.16	0.89	14.08	2.92	1.99
12900	11.75	25.30	19.99	10.20	2.21	0.88	14.10	2.86	1.96
13000	11.64	25.55	19.85	9.52	2.25	0.87	13.70	2.50	2.04
13500	10.82	27.10	18.10	6.82	2.56	0.80	11.46	0.78	2.10
14000	9.74	28.94	15.36	4.93	2.99	0.70	9.33	-0.84	2.24
14500	8.55	30.83	13.23	3.72	3.51	0.61	8.05	-2.16	2.39
15000	7.24	32.23	12.57	2.91	4.02	0.52	6.80	-3.25	2.48

Typical Performance Data

Definitions:
Input Return Loss = -S11 (dB)
Gain(Power Gain) = S21 (dB)
Reverse Isolation = -S12 (dB)
Output Return Loss = -S22 (dB)

TEST CONDITIONS: Vd = 3.30V, Id = 10.48mA @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
9000	12.08	26.24	9.94	9.50	2.23	0.90	20.55	6.76	1.74
9500	12.98	24.60	11.99	15.51	1.91	0.94	22.04	7.65	1.68
9600	13.06	24.43	12.30	16.09	1.87	0.94	21.92	7.74	1.68
9700	13.12	24.27	12.61	16.35	1.84	0.93	22.04	7.77	1.63
9800	13.17	24.10	12.81	16.25	1.80	0.93	21.98	8.25	1.69
9900	13.16	24.03	13.03	16.10	1.79	0.92	21.95	8.16	1.72
10000	13.19	23.91	13.18	15.74	1.77	0.92	22.29	8.04	1.77
10100	13.19	23.84	13.40	15.52	1.76	0.91	22.02	8.05	1.76
10200	13.19	23.78	13.56	15.35	1.75	0.91	22.06	8.25	1.73
10300	13.19	23.71	13.67	15.31	1.74	0.91	22.34	8.37	1.67
10400	13.20	23.66	13.89	15.43	1.73	0.90	22.22	8.43	1.72
10500	13.21	23.61	14.08	15.57	1.73	0.90	21.97	8.33	1.73
10600	13.21	23.57	14.25	15.77	1.72	0.90	22.40	8.20	1.71
10700	13.20	23.56	14.52	16.06	1.73	0.90	21.94	8.01	1.72
10800	13.21	23.57	14.80	16.52	1.73	0.90	21.72	8.17	1.75
10900	13.23	23.53	15.15	17.11	1.73	0.90	22.15	7.88	1.75
11000	13.23	23.51	15.49	17.78	1.73	0.91	22.22	7.87	1.68
11100	13.23	23.51	15.81	18.53	1.74	0.91	22.27	7.87	1.72
11200	13.24	23.55	16.24	19.48	1.75	0.91	21.75	7.88	1.71
11300	13.25	23.59	16.78	20.52	1.76	0.91	21.77	7.90	1.70
11400	13.26	23.58	17.43	22.20	1.76	0.91	21.42	7.71	1.74
11500	13.27	23.62	18.04	24.35	1.77	0.92	21.16	7.62	1.72
11600	13.27	23.66	18.62	27.22	1.78	0.92	21.26	7.40	1.75
11700	13.28	23.71	19.20	31.07	1.79	0.92	20.97	7.44	1.71
11800	13.27	23.75	19.81	33.88	1.80	0.92	20.38	7.09	1.67
11900	13.27	23.85	20.70	30.76	1.82	0.92	20.54	7.04	1.78
12000	13.27	23.94	21.12	26.93	1.83	0.92	20.10	6.98	1.76
12100	13.25	24.01	21.48	23.74	1.85	0.92	19.71	6.36	1.68
12200	13.22	24.13	21.98	21.35	1.87	0.92	19.53	6.47	1.65
12300	13.20	24.24	22.42	19.29	1.88	0.92	19.71	6.79	1.73
12400	13.17	24.39	22.68	17.56	1.91	0.92	19.15	6.24	1.71
12500	13.13	24.56	22.82	16.06	1.93	0.91	18.44	6.08	1.69
12600	13.07	24.74	23.04	14.72	1.96	0.91	18.49	6.11	1.75
12700	13.00	24.89	23.35	13.50	1.99	0.90	18.19	5.63	1.81
12800	12.92	25.11	23.58	12.48	2.02	0.89	17.50	5.24	1.81
12900	12.84	25.34	23.83	11.56	2.06	0.88	17.45	5.21	1.86
13000	12.75	25.59	23.99	10.73	2.10	0.87	17.04	4.87	1.86
13500	12.05	27.14	22.62	7.47	2.38	0.80	14.70	3.20	1.92
14000	11.04	29.11	17.59	5.26	2.79	0.71	12.49	1.58	2.01
14500	9.86	31.27	14.17	3.87	3.33	0.61	11.21	0.25	2.12
15000	8.52	32.98	13.05	2.96	3.89	0.52	9.93	-0.78	2.20

Typical Performance Data

Definitions:
Input Return Loss = -S11 (dB)
Gain(Power Gain) = S21 (dB)
Reverse Isolation = -S12 (dB)
Output Return Loss = -S22 (dB)

TEST CONDITIONS: Vd = 5.00V, Id = 29.30mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
9000	12.79	27.65	12.04	6.27	2.19	0.74	27.69	10.74	1.20
9500	14.13	25.41	13.75	10.03	1.78	0.83	28.72	12.06	1.15
10000	14.60	24.19	15.97	13.54	1.60	0.85	29.49	12.53	1.22
10100	14.62	24.05	16.29	13.85	1.58	0.85	29.87	12.83	1.21
10200	14.65	23.95	16.56	14.04	1.56	0.85	30.47	13.20	1.17
10300	14.67	23.81	16.95	14.13	1.54	0.84	29.58	13.13	1.19
10400	14.66	23.73	17.24	14.13	1.53	0.84	30.05	13.46	1.18
10500	14.68	23.66	17.46	14.04	1.52	0.84	30.07	13.62	1.28
10600	14.68	23.58	17.78	13.97	1.51	0.83	30.03	13.33	1.25
10700	14.69	23.51	18.13	13.95	1.50	0.83	30.75	13.74	1.21
10800	14.68	23.46	18.37	13.93	1.50	0.83	31.27	13.81	1.20
10900	14.69	23.41	18.55	13.91	1.49	0.83	30.57	13.16	1.20
11000	14.68	23.39	18.96	14.00	1.49	0.83	30.99	13.20	1.22
11100	14.69	23.37	19.14	14.11	1.49	0.83	30.85	12.88	1.21
11200	14.70	23.34	19.42	14.33	1.49	0.83	30.41	13.31	1.28
11300	14.71	23.32	19.60	14.58	1.48	0.83	30.52	12.85	1.21
11400	14.73	23.32	19.88	14.93	1.48	0.83	30.15	12.85	1.22
11500	14.73	23.30	20.20	15.32	1.49	0.83	30.31	13.36	1.28
11600	14.76	23.30	20.76	15.91	1.49	0.84	29.88	12.51	1.22
11700	14.78	23.30	21.45	16.50	1.49	0.84	29.98	13.07	1.17
11800	14.81	23.32	22.04	17.07	1.49	0.84	29.94	13.47	1.21
11900	14.83	23.31	22.43	17.70	1.49	0.84	29.65	12.66	1.29
12000	14.86	23.32	22.83	18.58	1.49	0.85	29.86	13.16	1.25
12100	14.89	23.36	23.39	20.00	1.50	0.85	29.97	11.99	1.23
12200	14.93	23.39	24.39	22.03	1.50	0.85	30.00	11.89	1.26
12300	14.97	23.44	25.46	24.83	1.51	0.86	29.97	12.00	1.26
12400	15.00	23.49	25.88	28.75	1.51	0.86	30.36	11.27	1.20
12500	15.01	23.54	25.92	35.69	1.52	0.86	30.78	12.46	1.32
12600	15.03	23.61	25.94	40.12	1.53	0.86	29.97	11.81	1.25
12700	15.05	23.71	25.52	29.29	1.54	0.86	30.08	11.26	1.32
12800	15.05	23.81	24.85	24.22	1.55	0.86	29.93	11.34	1.28
12900	15.05	23.94	24.22	20.87	1.56	0.86	30.61	11.59	1.33
13000	15.05	24.08	23.22	18.51	1.57	0.86	30.61	11.52	1.35
13500	14.83	25.11	18.61	11.28	1.68	0.83	30.53	9.81	1.34
14000	14.30	26.81	15.37	7.52	1.88	0.76	27.88	9.11	1.41
14500	13.41	29.22	13.31	5.12	2.23	0.66	25.19	8.19	1.40
15000	12.26	32.31	12.01	3.59	2.84	0.56	24.41	7.64	1.55

Typical Performance Data

Definitions:
Input Return Loss = -S11 (dB)
Gain(Power Gain) = S21 (dB)
Reverse Isolation = -S12 (dB)
Output Return Loss = -S22 (dB)

TEST CONDITIONS: Vd = 4.75V, Id = 27.63mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
9000	12.75	27.59	11.91	6.30	2.19	0.74	25.38	10.31	1.20
9500	14.09	25.35	13.62	10.09	1.78	0.83	26.27	11.63	1.10
10000	14.56	24.13	15.83	13.67	1.60	0.85	27.52	12.12	1.23
10100	14.57	24.00	16.15	14.06	1.58	0.85	27.82	12.41	1.20
10200	14.59	23.90	16.41	14.24	1.57	0.85	28.26	12.79	1.19
10300	14.61	23.78	16.79	14.33	1.55	0.85	27.46	12.70	1.17
10400	14.61	23.69	17.10	14.34	1.54	0.84	27.93	13.04	1.18
10500	14.61	23.62	17.29	14.23	1.53	0.84	28.47	13.20	1.21
10600	14.62	23.54	17.61	14.18	1.52	0.84	28.05	12.91	1.24
10700	14.63	23.47	17.92	14.17	1.51	0.83	28.93	13.33	1.14
10800	14.63	23.42	18.23	14.18	1.50	0.83	29.41	13.39	1.15
10900	14.63	23.37	18.41	14.16	1.49	0.83	28.36	12.75	1.22
11000	14.63	23.35	18.81	14.26	1.49	0.83	28.25	12.78	1.22
11100	14.63	23.32	18.98	14.39	1.49	0.83	27.90	12.48	1.19
11200	14.64	23.30	19.23	14.61	1.49	0.83	28.54	12.89	1.29
11300	14.65	23.28	19.38	14.87	1.49	0.83	27.78	12.43	1.20
11400	14.66	23.27	19.65	15.24	1.49	0.83	28.24	12.45	1.23
11500	14.66	23.25	20.04	15.64	1.49	0.84	28.32	12.94	1.23
11600	14.69	23.26	20.56	16.26	1.49	0.84	27.10	12.11	1.21
11700	14.72	23.26	21.20	16.87	1.49	0.84	27.72	12.66	1.20
11800	14.74	23.28	21.88	17.46	1.50	0.84	28.58	13.06	1.21
11900	14.76	23.27	22.23	18.17	1.50	0.85	27.81	12.28	1.27
12000	14.78	23.28	22.63	19.07	1.50	0.85	28.42	12.77	1.19
12100	14.82	23.33	23.32	20.56	1.50	0.85	27.73	11.64	1.21
12200	14.86	23.36	24.18	22.75	1.51	0.86	27.70	11.56	1.23
12300	14.89	23.41	25.35	25.90	1.51	0.86	27.53	11.66	1.24
12400	14.91	23.46	25.81	30.65	1.52	0.86	27.64	10.99	1.21
12500	14.93	23.51	26.01	41.31	1.53	0.86	28.08	12.10	1.23
12600	14.95	23.59	26.11	36.24	1.53	0.87	27.39	11.48	1.25
12700	14.96	23.69	25.74	27.76	1.54	0.87	27.48	10.98	1.28
12800	14.96	23.79	25.28	23.38	1.56	0.87	27.67	11.06	1.24
12900	14.96	23.92	24.71	20.27	1.57	0.86	27.80	11.30	1.26
13000	14.95	24.07	23.72	18.06	1.58	0.86	28.66	11.23	1.32
13500	14.71	25.10	18.96	11.10	1.69	0.82	29.28	9.56	1.30
14000	14.17	26.79	15.60	7.45	1.89	0.76	32.40	8.85	1.39
14500	13.28	29.18	13.51	5.09	2.24	0.66	29.51	7.90	1.41
15000	12.13	32.21	12.15	3.58	2.85	0.56	26.67	7.31	1.54

Typical Performance Data

Definitions:
Input Return Loss = -S11 (dB)
Gain(Power Gain) = S21 (dB)
Reverse Isolation = -S12 (dB)
Output Return Loss = -S22 (dB)

TEST CONDITIONS: Vd = 5.25V, Id = 31.00mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
9000	12.82	27.72	12.17	6.23	2.20	0.73	32.14	11.14	1.22
9500	14.18	25.43	13.87	9.95	1.77	0.83	32.14	12.46	1.14
10000	14.67	24.22	16.11	13.40	1.59	0.85	32.76	12.93	1.22
10100	14.68	24.09	16.45	13.70	1.58	0.85	32.95	13.21	1.22
10200	14.71	23.98	16.74	13.84	1.56	0.85	32.47	13.60	1.21
10300	14.73	23.85	17.13	13.92	1.54	0.84	31.89	13.53	1.19
10400	14.73	23.78	17.43	13.88	1.53	0.84	32.24	13.86	1.21
10500	14.73	23.68	17.63	13.77	1.52	0.83	32.21	14.02	1.26
10600	14.74	23.61	18.00	13.73	1.51	0.83	31.46	13.72	1.19
10700	14.75	23.55	18.31	13.69	1.50	0.83	31.78	14.12	1.22
10800	14.75	23.51	18.63	13.68	1.49	0.83	31.95	14.21	1.20
10900	14.76	23.45	18.80	13.67	1.48	0.82	32.39	13.55	1.23
11000	14.75	23.44	19.26	13.74	1.48	0.82	32.46	13.58	1.19
11100	14.76	23.40	19.44	13.87	1.48	0.82	31.90	13.27	1.19
11200	14.76	23.37	19.71	14.07	1.48	0.82	32.33	13.70	1.24
11300	14.78	23.34	19.84	14.32	1.48	0.83	31.85	13.25	1.21
11400	14.79	23.34	20.10	14.67	1.48	0.83	31.89	13.22	1.25
11500	14.80	23.31	20.49	15.04	1.48	0.83	31.54	13.75	1.25
11600	14.83	23.33	21.05	15.59	1.48	0.83	31.09	12.90	1.24
11700	14.86	23.33	21.74	16.09	1.48	0.83	31.28	13.44	1.21
11800	14.88	23.34	22.39	16.64	1.48	0.84	31.87	13.83	1.26
11900	14.90	23.34	22.71	17.26	1.48	0.84	30.53	13.01	1.26
12000	14.93	23.34	23.10	18.09	1.48	0.84	30.45	13.51	1.23
12100	14.97	23.38	23.72	19.34	1.49	0.85	30.29	12.26	1.23
12200	15.01	23.41	24.52	21.24	1.49	0.85	30.03	12.15	1.22
12300	15.05	23.47	25.56	23.68	1.50	0.85	30.51	12.32	1.24
12400	15.08	23.51	25.93	27.01	1.50	0.86	30.17	11.52	1.21
12500	15.10	23.55	25.88	32.17	1.51	0.86	30.73	12.78	1.24
12600	15.13	23.63	25.78	40.00	1.51	0.86	30.08	12.10	1.26
12700	15.15	23.73	25.13	30.84	1.52	0.86	29.27	11.51	1.29
12800	15.15	23.82	24.48	25.23	1.53	0.86	29.45	11.60	1.24
12900	15.16	23.95	23.80	21.48	1.55	0.86	29.66	11.85	1.31
13000	15.15	24.09	22.78	18.95	1.56	0.86	28.71	11.75	1.36
13500	14.95	25.12	18.30	11.40	1.66	0.82	26.41	10.00	1.30
14000	14.43	26.82	15.11	7.57	1.86	0.76	24.74	9.32	1.42
14500	13.55	29.26	13.12	5.12	2.21	0.66	23.23	8.42	1.40
15000	12.39	32.41	11.86	3.57	2.82	0.56	22.95	7.93	1.58

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 = 5.00V, Id = 33.12mA @ Temperature = -45°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
9000	13.27	27.77	12.79	5.21	1.97	0.65	29.36	11.02	0.83
9500	14.74	25.33	15.33	8.46	1.62	0.76	29.11	12.29	0.76
10000	15.32	23.95	17.47	12.88	1.47	0.81	29.47	13.09	0.85
10100	15.34	23.83	17.80	13.35	1.45	0.81	30.10	13.62	0.83
10200	15.36	23.70	18.09	13.69	1.44	0.81	30.45	13.81	0.82
10300	15.36	23.59	18.41	13.83	1.43	0.81	29.15	13.49	0.79
10400	15.34	23.52	18.48	13.66	1.42	0.81	29.66	13.96	0.83
10500	15.31	23.46	18.38	13.12	1.41	0.80	30.02	14.08	0.86
10600	15.30	23.40	18.40	12.64	1.39	0.79	29.93	14.04	0.84
10700	15.28	23.34	18.46	12.17	1.39	0.78	30.20	14.69	0.79
10800	15.25	23.32	18.35	11.77	1.38	0.78	31.00	14.35	0.83
10900	15.24	23.27	18.06	11.47	1.37	0.77	30.65	14.11	0.82
11000	15.23	23.26	18.02	11.42	1.37	0.77	30.09	13.98	0.81
11100	15.23	23.22	17.84	11.43	1.37	0.77	29.90	13.51	0.81
11200	15.24	23.18	17.94	11.53	1.37	0.77	29.99	13.94	0.88
11300	15.27	23.13	17.98	11.68	1.36	0.76	29.31	13.00	0.84
11400	15.29	23.11	18.07	11.91	1.36	0.77	29.20	13.42	0.85
11500	15.31	23.06	18.29	12.29	1.36	0.77	29.40	13.57	0.86
11600	15.37	23.03	18.61	12.93	1.36	0.77	28.44	12.42	0.85
11700	15.43	23.00	19.13	13.58	1.35	0.78	28.47	13.29	0.82
11800	15.47	22.96	19.74	14.36	1.35	0.78	29.03	13.85	0.85
11900	15.54	22.92	20.36	15.39	1.35	0.79	28.55	12.82	0.89
12000	15.59	22.89	21.16	16.70	1.35	0.79	29.09	13.74	0.86
12100	15.66	22.90	22.17	18.42	1.35	0.80	29.27	12.97	0.83
12200	15.71	22.90	23.19	20.72	1.35	0.80	28.53	12.36	0.84
12300	15.75	22.94	24.03	23.66	1.35	0.81	28.16	11.61	0.83
12400	15.79	22.98	24.01	27.68	1.35	0.81	28.21	11.38	0.80
12500	15.81	23.01	23.41	32.85	1.36	0.81	28.57	12.43	0.82
12600	15.83	23.09	22.44	33.36	1.36	0.82	27.86	11.08	0.85
12700	15.85	23.17	21.25	28.11	1.37	0.82	28.01	11.13	0.86
12800	15.87	23.25	20.50	24.15	1.37	0.82	28.15	11.05	0.83
12900	15.88	23.35	19.92	21.42	1.38	0.82	27.67	10.90	0.85
13000	15.90	23.46	19.45	19.52	1.38	0.82	27.67	11.21	0.92
13500	15.89	24.23	16.51	13.18	1.44	0.80	27.69	10.23	0.89
14000	15.59	25.66	14.25	8.12	1.53	0.73	26.93	9.45	0.96
14500	14.81	27.94	12.57	4.91	1.69	0.61	26.75	8.76	0.96
15000	13.65	31.17	10.65	3.10	2.02	0.49	26.92	7.94	1.13

Typical Performance Data

Definitions:
Input Return Loss = -S11 (dB)
Gain(Power Gain) = S21 (dB)
Reverse Isolation = -S12 (dB)
Output Return Loss = -S22 (dB)

TEST CONDITIONS: Vd = 4.75V, Id = 31.16mA @ Temperature = -45°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
9000	13.26	27.72	12.69	5.24	1.97	0.66	26.24	10.59	0.83
9500	14.72	25.28	15.24	8.52	1.62	0.76	26.39	11.87	0.77
10000	15.29	23.91	17.42	13.01	1.47	0.81	27.39	12.68	0.85
10100	15.31	23.79	17.72	13.50	1.45	0.82	27.93	13.20	0.82
10200	15.33	23.66	18.02	13.86	1.44	0.82	28.15	13.38	0.79
10300	15.32	23.56	18.30	14.00	1.43	0.81	27.43	13.06	0.76
10400	15.30	23.49	18.37	13.85	1.42	0.81	27.56	13.53	0.82
10500	15.28	23.43	18.28	13.31	1.41	0.80	27.92	13.65	0.84
10600	15.26	23.36	18.32	12.82	1.40	0.80	27.99	13.61	0.82
10700	15.24	23.31	18.36	12.33	1.39	0.79	28.78	14.25	0.80
10800	15.22	23.28	18.24	11.94	1.38	0.78	28.81	13.91	0.83
10900	15.20	23.24	17.99	11.62	1.38	0.77	28.17	13.69	0.83
11000	15.19	23.22	17.94	11.57	1.37	0.77	28.18	13.57	0.80
11100	15.20	23.18	17.75	11.60	1.37	0.77	27.72	13.10	0.83
11200	15.21	23.15	17.85	11.70	1.37	0.77	27.52	13.51	0.86
11300	15.23	23.10	17.91	11.86	1.36	0.77	27.00	12.63	0.83
11400	15.25	23.07	17.99	12.09	1.36	0.77	27.27	13.02	0.83
11500	15.27	23.03	18.19	12.48	1.36	0.77	26.80	13.15	0.87
11600	15.33	23.00	18.50	13.12	1.36	0.78	26.28	12.12	0.85
11700	15.38	22.97	19.04	13.79	1.36	0.78	26.49	12.90	0.83
11800	15.43	22.94	19.70	14.62	1.36	0.79	26.97	13.43	0.81
11900	15.49	22.90	20.29	15.65	1.35	0.79	26.47	12.51	0.89
12000	15.54	22.87	21.11	17.01	1.35	0.80	27.06	13.34	0.83
12100	15.60	22.88	22.16	18.84	1.35	0.80	27.12	12.69	0.79
12200	15.65	22.88	23.20	21.26	1.35	0.81	26.80	12.13	0.89
12300	15.69	22.92	24.08	24.44	1.36	0.81	26.09	11.44	0.84
12400	15.73	22.96	24.14	29.19	1.36	0.81	26.22	11.21	0.79
12500	15.75	23.00	23.52	36.35	1.36	0.82	26.50	12.19	0.83
12600	15.77	23.07	22.61	33.62	1.37	0.82	25.51	10.92	0.83
12700	15.79	23.15	21.44	27.42	1.37	0.82	25.89	10.95	0.86
12800	15.80	23.23	20.63	23.62	1.38	0.82	25.72	10.88	0.84
12900	15.81	23.34	20.07	21.01	1.38	0.82	25.50	10.74	0.82
13000	15.82	23.45	19.62	19.19	1.39	0.82	25.69	11.04	0.89
13500	15.81	24.24	16.66	12.95	1.44	0.80	25.34	10.10	0.85
14000	15.49	25.66	14.38	8.01	1.54	0.73	25.04	9.30	0.98
14500	14.70	27.95	12.68	4.88	1.71	0.61	26.15	8.57	0.93
15000	13.54	31.13	10.75	3.09	2.02	0.48	27.73	7.72	1.10

Typical Performance Data

Definitions:
Input Return Loss = -S11 (dB)
Gain(Power Gain) = S21 (dB)
Reverse Isolation = -S12 (dB)
Output Return Loss = -S22 (dB)

TEST CONDITIONS: Vd = 5.25V, Id = 35.61mA @ Temperature = -45°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
9000	13.30	27.83	12.93	5.17	1.98	0.65	31.03	11.42	0.86
9500	14.78	25.38	15.49	8.38	1.62	0.75	31.27	12.68	0.78
10000	15.36	23.99	17.65	12.70	1.46	0.81	31.27	13.46	0.86
10100	15.39	23.86	17.96	13.16	1.45	0.81	31.56	14.00	0.83
10200	15.41	23.74	18.21	13.47	1.43	0.81	32.06	14.21	0.85
10300	15.41	23.63	18.50	13.59	1.42	0.81	31.78	13.85	0.83
10400	15.39	23.56	18.61	13.42	1.41	0.81	31.63	14.35	0.85
10500	15.36	23.50	18.53	12.90	1.40	0.80	32.02	14.48	0.88
10600	15.35	23.43	18.57	12.43	1.39	0.79	31.51	14.43	0.86
10700	15.33	23.38	18.64	11.95	1.38	0.78	32.77	15.10	0.82
10800	15.30	23.35	18.54	11.57	1.37	0.77	32.14	14.75	0.85
10900	15.29	23.31	18.25	11.26	1.37	0.77	31.40	14.51	0.87
11000	15.27	23.30	18.21	11.20	1.37	0.76	31.34	14.36	0.83
11100	15.29	23.25	18.01	11.23	1.36	0.76	31.70	13.85	0.85
11200	15.29	23.22	18.06	11.32	1.36	0.76	30.70	14.31	0.90
11300	15.32	23.17	18.15	11.46	1.35	0.76	30.05	13.35	0.83
11400	15.34	23.14	18.23	11.69	1.35	0.76	30.12	13.73	0.90
11500	15.37	23.09	18.38	12.05	1.35	0.77	30.95	13.92	0.89
11600	15.43	23.06	18.72	12.66	1.35	0.77	29.86	12.58	0.88
11700	15.48	23.03	19.23	13.27	1.35	0.78	30.16	13.62	0.82
11800	15.54	22.99	19.85	14.05	1.35	0.78	30.19	14.21	0.86
11900	15.60	22.95	20.46	15.02	1.34	0.78	30.04	13.11	0.88
12000	15.66	22.92	21.27	16.27	1.34	0.79	29.98	14.06	0.86
12100	15.73	22.92	22.24	17.92	1.34	0.80	29.54	13.15	0.83
12200	15.78	22.92	23.22	20.02	1.34	0.80	29.68	12.50	0.86
12300	15.83	22.96	23.98	22.57	1.34	0.81	29.00	11.74	0.87
12400	15.86	22.99	23.84	25.92	1.35	0.81	28.94	11.49	0.82
12500	15.89	23.03	23.18	29.96	1.35	0.81	29.46	12.60	0.86
12600	15.92	23.10	22.23	32.39	1.35	0.82	28.46	11.20	0.87
12700	15.94	23.17	21.08	28.64	1.36	0.82	28.20	11.24	0.89
12800	15.96	23.25	20.27	24.73	1.36	0.82	28.29	11.17	0.87
12900	15.97	23.35	19.75	21.97	1.37	0.82	28.18	11.03	0.91
13000	15.99	23.47	19.26	19.99	1.38	0.82	27.50	11.35	0.93
13500	16.01	24.23	16.35	13.41	1.42	0.80	26.55	10.33	0.89
14000	15.73	25.64	14.04	8.23	1.51	0.73	25.26	9.56	1.00
14500	14.97	27.94	12.37	4.96	1.68	0.61	24.02	8.88	0.96
15000	13.81	31.19	10.53	3.09	1.99	0.48	23.81	8.09	1.12

Typical Performance Data

Definitions:
Input Return Loss = -S11 (dB)
Gain(Power Gain) = S21 (dB)
Reverse Isolation = -S12 (dB)
Output Return Loss = -S22 (dB)

TEST CONDITIONS: Vd = 5.00V, Id = 24.16mA @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
9000	12.32	27.57	11.53	7.22	2.38	0.80	27.55	10.35	1.56
9500	13.61	25.42	12.87	11.91	1.91	0.89	28.89	11.63	1.48
10000	14.03	24.32	14.74	14.86	1.71	0.89	28.77	11.97	1.59
10100	14.05	24.21	15.05	14.85	1.69	0.88	28.92	12.06	1.56
10200	14.09	24.11	15.29	14.61	1.67	0.88	28.86	12.42	1.58
10300	14.11	23.99	15.64	14.50	1.65	0.87	28.88	12.62	1.55
10400	14.10	23.92	15.98	14.31	1.64	0.87	28.39	12.71	1.59
10500	14.12	23.83	16.36	14.22	1.62	0.86	28.60	12.85	1.60
10600	14.13	23.77	16.76	14.22	1.61	0.86	28.37	12.53	1.63
10700	14.15	23.70	17.14	14.36	1.60	0.86	28.40	12.53	1.58
10800	14.16	23.66	17.63	14.63	1.60	0.86	28.68	12.82	1.57
10900	14.16	23.61	18.05	14.89	1.60	0.86	28.59	12.22	1.58
11000	14.18	23.60	18.69	15.25	1.60	0.86	28.82	12.27	1.56
11100	14.19	23.56	19.17	15.65	1.60	0.86	28.81	12.14	1.57
11200	14.20	23.55	19.73	16.10	1.60	0.86	28.47	12.30	1.62
11300	14.21	23.53	20.25	16.66	1.60	0.86	28.32	12.26	1.54
11400	14.23	23.53	20.78	17.34	1.60	0.87	27.90	11.98	1.58
11500	14.23	23.52	21.34	18.03	1.60	0.87	28.28	12.41	1.62
11600	14.25	23.55	21.94	18.83	1.61	0.87	28.88	11.96	1.62
11700	14.26	23.57	22.76	19.70	1.61	0.88	28.33	12.09	1.56
11800	14.27	23.61	23.43	20.48	1.62	0.88	27.76	12.13	1.60
11900	14.28	23.64	23.70	21.34	1.62	0.88	28.15	11.73	1.63
12000	14.29	23.68	23.96	22.40	1.63	0.88	27.44	11.78	1.57
12100	14.31	23.72	24.30	24.19	1.64	0.89	27.20	10.92	1.59
12200	14.34	23.80	25.13	26.69	1.65	0.89	27.45	11.04	1.66
12300	14.36	23.88	25.93	30.60	1.66	0.89	27.66	11.40	1.61
12400	14.37	23.96	26.35	34.09	1.67	0.89	26.95	10.79	1.64
12500	14.37	24.03	26.90	31.30	1.68	0.89	26.82	11.36	1.66
12600	14.38	24.15	28.00	26.72	1.70	0.89	26.97	11.35	1.63
12700	14.38	24.26	29.06	23.13	1.71	0.89	26.50	10.77	1.68
12800	14.35	24.39	29.99	20.35	1.73	0.89	26.16	10.81	1.66
12900	14.33	24.58	30.46	17.94	1.76	0.89	25.52	10.94	1.72
13000	14.28	24.76	29.48	16.05	1.78	0.88	24.99	10.58	1.73
13500	13.86	26.07	21.17	9.87	1.96	0.83	23.11	8.94	1.73
14000	13.11	28.01	15.98	6.87	2.30	0.76	21.34	8.03	1.86
14500	12.16	30.49	13.53	5.07	2.87	0.68	20.10	6.98	1.89
15000	11.09	33.17	12.74	3.94	3.72	0.61	19.34	6.27	2.01

Typical Performance Data

Definitions:
Input Return Loss = -S11 (dB)
Gain(Power Gain) = S21 (dB)
Reverse Isolation = -S12 (dB)
Output Return Loss = -S22 (dB)

TEST CONDITIONS: Vd = 4.75V, Id = 22.88mA @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
9000	12.28	27.50	11.41	7.25	2.37	0.80	25.98	9.93	1.58
9500	13.56	25.37	12.74	12.01	1.91	0.89	27.77	11.22	1.52
10000	13.97	24.28	14.60	15.09	1.71	0.89	29.11	11.57	1.58
10100	13.99	24.17	14.93	15.07	1.70	0.89	28.66	11.67	1.58
10200	14.02	24.07	15.15	14.85	1.67	0.88	28.62	12.04	1.60
10300	14.04	23.94	15.49	14.74	1.65	0.88	28.32	12.22	1.54
10400	14.04	23.88	15.81	14.53	1.64	0.87	28.48	12.32	1.58
10500	14.06	23.79	16.21	14.47	1.63	0.87	28.47	12.46	1.61
10600	14.07	23.72	16.61	14.47	1.62	0.86	28.34	12.14	1.60
10700	14.08	23.66	17.00	14.61	1.61	0.86	28.01	12.13	1.55
10800	14.09	23.62	17.46	14.90	1.61	0.86	28.40	12.44	1.55
10900	14.10	23.57	17.90	15.20	1.60	0.86	28.59	11.83	1.60
11000	14.11	23.56	18.49	15.57	1.61	0.86	29.16	11.89	1.58
11100	14.12	23.52	18.97	16.00	1.60	0.86	28.99	11.75	1.56
11200	14.13	23.51	19.53	16.49	1.60	0.87	28.64	11.93	1.62
11300	14.14	23.49	20.03	17.08	1.60	0.87	29.39	11.88	1.59
11400	14.15	23.49	20.54	17.77	1.61	0.87	28.96	11.60	1.59
11500	14.16	23.49	21.12	18.51	1.61	0.87	28.46	12.03	1.61
11600	14.17	23.52	21.73	19.37	1.62	0.88	29.57	11.57	1.61
11700	14.17	23.54	22.55	20.28	1.62	0.88	28.76	11.72	1.56
11800	14.19	23.58	23.20	21.16	1.63	0.88	28.24	11.77	1.61
11900	14.20	23.61	23.50	22.13	1.63	0.88	28.38	11.36	1.63
12000	14.21	23.65	23.75	23.26	1.64	0.89	27.68	11.41	1.63
12100	14.23	23.70	24.06	25.27	1.65	0.89	28.37	10.56	1.55
12200	14.25	23.78	24.85	28.30	1.66	0.89	28.39	10.67	1.65
12300	14.26	23.86	25.68	33.10	1.67	0.89	29.00	11.03	1.62
12400	14.27	23.94	26.12	35.29	1.68	0.89	28.49	10.42	1.65
12500	14.28	24.01	26.76	30.29	1.69	0.90	27.89	10.99	1.65
12600	14.28	24.13	27.92	25.83	1.71	0.90	28.03	10.97	1.63
12700	14.27	24.25	29.19	22.45	1.72	0.90	27.23	10.41	1.68
12800	14.24	24.38	30.64	19.81	1.75	0.89	27.33	10.45	1.66
12900	14.22	24.57	31.63	17.54	1.77	0.89	26.60	10.56	1.72
13000	14.17	24.75	30.85	15.74	1.80	0.88	25.85	10.21	1.72
13500	13.72	26.07	21.57	9.75	1.98	0.83	23.86	8.58	1.74
14000	12.97	27.99	16.15	6.82	2.33	0.76	21.79	7.66	1.84
14500	12.02	30.42	13.64	5.05	2.88	0.68	20.23	6.62	1.91
15000	10.96	33.05	12.85	3.93	3.72	0.61	19.37	5.89	2.03

Typical Performance Data

Definitions:
Input Return Loss = -S11 (dB)
Gain(Power Gain) = S21 (dB)
Reverse Isolation = -S12 (dB)
Output Return Loss = -S22 (dB)

TEST CONDITIONS: Vd = 5.25V, Id = 25.34mA @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
9000	12.36	27.63	11.62	7.18	2.38	0.80	28.15	10.74	1.56
9500	13.67	25.47	12.93	11.84	1.91	0.89	28.48	12.02	1.48
10000	14.09	24.35	14.84	14.69	1.70	0.89	28.62	12.35	1.61
10100	14.11	24.24	15.18	14.64	1.69	0.88	28.38	12.42	1.60
10200	14.14	24.14	15.41	14.41	1.66	0.88	28.79	12.79	1.58
10300	14.17	24.01	15.78	14.29	1.64	0.87	28.76	13.00	1.55
10400	14.17	23.95	16.12	14.09	1.63	0.86	28.47	13.08	1.60
10500	14.19	23.86	16.53	14.02	1.62	0.86	28.39	13.22	1.63
10600	14.20	23.79	16.94	14.01	1.61	0.86	28.30	12.90	1.57
10700	14.21	23.73	17.34	14.13	1.60	0.85	27.87	12.87	1.55
10800	14.22	23.69	17.83	14.40	1.60	0.85	28.05	13.18	1.59
10900	14.23	23.64	18.27	14.67	1.59	0.85	27.79	12.58	1.60
11000	14.24	23.62	18.95	15.01	1.59	0.86	28.12	12.63	1.61
11100	14.26	23.59	19.43	15.40	1.59	0.86	27.89	12.50	1.57
11200	14.27	23.57	20.00	15.84	1.59	0.86	27.44	12.66	1.63
11300	14.28	23.56	20.54	16.37	1.59	0.86	27.80	12.65	1.61
11400	14.30	23.55	21.05	17.00	1.59	0.86	27.22	12.34	1.57
11500	14.30	23.55	21.62	17.64	1.59	0.87	27.48	12.76	1.63
11600	14.32	23.57	22.26	18.40	1.60	0.87	27.58	12.33	1.62
11700	14.33	23.60	23.08	19.18	1.60	0.87	27.48	12.44	1.55
11800	14.34	23.64	23.76	19.93	1.61	0.88	27.39	12.47	1.61
11900	14.36	23.66	24.01	20.74	1.61	0.88	27.05	12.07	1.65
12000	14.37	23.70	24.22	21.68	1.62	0.88	26.59	12.10	1.59
12100	14.39	23.75	24.47	23.25	1.63	0.88	25.83	11.25	1.61
12200	14.42	23.82	25.26	25.49	1.64	0.89	25.86	11.36	1.67
12300	14.44	23.90	26.00	28.77	1.65	0.89	26.48	11.75	1.64
12400	14.45	23.97	26.40	32.29	1.66	0.89	25.68	11.12	1.60
12500	14.46	24.05	26.82	31.69	1.67	0.89	26.03	11.70	1.63
12600	14.47	24.16	27.78	27.49	1.68	0.89	25.81	11.68	1.64
12700	14.47	24.28	28.65	23.78	1.70	0.89	25.25	11.10	1.68
12800	14.45	24.40	29.44	20.83	1.72	0.89	25.24	11.15	1.66
12900	14.43	24.59	29.67	18.29	1.74	0.89	25.07	11.28	1.68
13000	14.39	24.76	28.72	16.32	1.77	0.88	24.29	10.92	1.74
13500	13.97	26.09	20.86	9.93	1.95	0.83	22.31	9.26	1.73
14000	13.23	28.04	15.79	6.87	2.28	0.76	20.99	8.35	1.89
14500	12.28	30.54	13.35	5.05	2.84	0.68	19.73	7.32	1.86
15000	11.21	33.30	12.58	3.91	3.70	0.61	19.24	6.61	2.03