

*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 = 5V, Id = 126mA @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)			(dBm)	(dBm)	(dB)
4.4	6.31	35.66	8.46	4.12	7.96	0.68	22.66	14.35	13.65
4.6	8.80	37.47	9.82	4.61	8.14	0.71	25.25	15.13	11.84
4.8	10.45	40.23	10.13	5.44	10.11	0.77	35.52	16.32	10.40
5.0	11.45	41.57	10.33	6.40	11.37	0.83	33.36	16.91	9.15
5.2	12.14	41.42	10.75	7.37	11.02	0.88	29.89	17.65	8.24
5.4	12.63	40.72	11.38	8.33	10.16	0.91	28.97	17.91	7.62
5.6	13.00	40.00	12.16	9.23	9.35	0.93	28.89	17.71	7.02
5.8	13.29	39.26	13.04	10.07	8.61	0.94	28.74	18.13	6.51
6.0	13.50	38.64	14.02	10.81	8.03	0.95	28.73	17.76	6.20
6.2	13.67	38.56	15.12	11.46	7.96	0.95	28.58	17.98	5.90
6.4	13.79	38.02	16.31	12.00	7.50	0.95	28.34	18.22	5.66
6.6	13.88	37.79	17.60	12.42	7.31	0.95	28.37	17.98	5.48
6.8	13.93	37.68	19.06	12.73	7.24	0.95	28.25	18.26	5.38
7.0	13.96	37.49	20.66	12.92	7.10	0.95	28.18	18.57	5.28
7.2	13.97	37.23	22.47	13.01	6.91	0.95	28.07	18.46	5.20
7.4	13.96	37.19	24.53	13.04	6.90	0.95	27.99	18.46	5.16
7.6	13.95	37.17	26.90	12.99	6.90	0.95	27.94	18.66	5.11
7.8	13.91	37.06	29.65	12.91	6.84	0.95	27.79	18.23	5.07
8.0	13.88	37.21	32.42	12.83	6.98	0.94	27.70	18.50	5.12
8.5	13.76	37.03	31.01	12.51	6.90	0.94	27.42	18.17	5.12
9.0	13.63	37.04	26.40	12.19	6.97	0.94	27.26	17.61	5.14
9.5	13.50	37.22	23.60	11.89	7.17	0.94	26.99	18.41	5.17
10.0	13.35	37.29	21.79	11.62	7.30	0.93	26.65	19.07	5.35
10.5	13.23	37.08	20.56	11.38	7.19	0.93	26.54	19.84	5.50
11.0	13.12	37.27	19.68	11.22	7.43	0.93	26.32	19.79	5.54
11.5	13.05	37.22	18.97	11.06	7.39	0.93	25.90	19.01	5.66
12.0	12.98	37.18	18.51	10.96	7.39	0.93	25.56	19.21	5.68
12.5	12.95	37.17	18.13	10.85	7.38	0.93	25.26	19.05	5.63
13.0	12.93	37.13	17.86	10.77	7.35	0.93	24.99	19.36	5.75
13.5	12.92	37.11	17.81	10.78	7.34	0.93	24.75	19.75	5.81
14.0	12.92	36.54	17.83	10.76	6.88	0.93	24.40	19.41	5.75
14.5	12.98	36.10	17.84	10.76	6.51	0.92	24.21	19.21	5.81
15.0	13.03	35.86	17.90	10.81	6.30	0.93	23.84	19.52	6.03
15.5	13.09	35.28	17.98	10.90	5.87	0.93	23.60	19.69	6.00
16.0	13.18	34.78	18.00	11.05	5.50	0.93	23.50	19.24	6.02
16.5	13.27	34.24	18.01	11.29	5.14	0.93	23.47	19.05	6.09
17.0	13.34	33.71	17.76	11.61	4.82	0.94	23.30	19.45	5.94
17.5	13.39	33.16	17.37	12.12	4.53	0.95	23.59	19.84	5.93
18.0	13.38	32.90	16.74	12.89	4.43	0.96	22.90	19.61	5.90
18.5	13.35	32.31	15.84	13.89	4.18	0.98	22.74	19.66	6.01
19.0	13.28	31.94	14.65	15.15	4.05	0.99	22.72	19.14	5.96
19.5	13.11	31.53	13.43	16.89	3.93	1.02	22.57	18.71	6.14
20.0	12.86	31.28	12.32	19.07	3.91	1.04	23.03	18.06	6.24
20.5	12.47	31.28	11.25	21.24	4.03	1.06	23.14	18.15	6.17
21.0	11.99	31.28	10.32	21.72	4.19	1.08	23.54	17.58	6.04
21.5	11.39	31.18	9.47	19.83	4.32	1.09	24.16	16.98	6.17
22.0	10.71	30.96	8.78	17.58	4.42	1.11	25.35	16.71	6.24



*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 = 125mA @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)			(dBm)	(dBm)	(dB)
4.4	6.47	35.56	8.48	4.08	7.69	0.68	21.30	14.04	13.59
4.6	8.97	37.36	9.88	4.58	7.88	0.70	23.24	14.81	11.79
4.8	10.62	40.31	10.16	5.43	10.01	0.77	30.15	15.90	10.32
5.0	11.61	41.63	10.35	6.40	11.25	0.83	30.90	16.41	9.12
5.2	12.28	41.35	10.76	7.39	10.78	0.88	33.31	17.15	8.20
5.4	12.76	40.72	11.39	8.36	10.03	0.91	30.80	17.36	7.58
5.6	13.13	39.88	12.16	9.29	9.11	0.93	30.68	17.14	6.98
5.8	13.40	39.35	13.03	10.14	8.60	0.94	30.14	17.57	6.47
6.0	13.62	38.79	14.00	10.91	8.08	0.95	30.37	17.19	6.14
6.2	13.78	38.35	15.08	11.58	7.70	0.95	29.92	17.41	5.86
6.4	13.89	37.96	16.26	12.15	7.38	0.95	29.27	17.65	5.59
6.6	13.98	37.81	17.54	12.60	7.26	0.96	29.46	17.40	5.44
6.8	14.03	37.55	18.95	12.91	7.07	0.95	29.05	17.70	5.36
7.0	14.06	37.45	20.53	13.13	7.01	0.95	28.78	18.00	5.23
7.2	14.07	37.33	22.34	13.24	6.93	0.95	28.76	17.89	5.13
7.4	14.06	37.25	24.35	13.27	6.89	0.95	28.57	17.89	5.11
7.6	14.05	37.07	26.73	13.24	6.77	0.95	28.42	18.09	5.06
7.8	14.01	37.19	29.51	13.16	6.88	0.95	28.45	17.65	5.07
8.0	13.98	37.05	32.60	13.06	6.80	0.95	28.19	17.83	5.09
8.5	13.87	36.87	32.24	12.75	6.72	0.94	27.95	17.60	5.07
9.0	13.75	37.02	27.23	12.41	6.88	0.94	27.89	17.03	5.09
9.5	13.62	37.07	24.17	12.11	6.98	0.94	27.38	17.84	5.14
10.0	13.48	36.98	22.30	11.83	6.98	0.94	26.98	18.40	5.31
10.5	13.37	37.20	21.01	11.59	7.21	0.93	26.78	19.33	5.43
11.0	13.27	37.06	20.08	11.42	7.15	0.93	26.55	19.28	5.49
11.5	13.20	37.21	19.40	11.25	7.30	0.93	26.16	18.45	5.60
12.0	13.15	37.02	18.90	11.13	7.15	0.93	25.73	18.67	5.67
12.5	13.12	37.10	18.54	11.01	7.22	0.93	25.41	18.51	5.59
13.0	13.11	37.05	18.26	10.93	7.16	0.93	25.17	18.74	5.70
13.5	13.11	36.89	18.21	10.93	7.04	0.93	24.92	19.28	5.75
14.0	13.13	36.46	18.24	10.91	6.69	0.93	24.57	18.92	5.72
14.5	13.19	36.09	18.30	10.90	6.37	0.93	24.40	18.62	5.77
15.0	13.25	35.60	18.37	10.95	5.99	0.93	24.05	19.06	5.97
15.5	13.33	35.20	18.49	11.02	5.68	0.93	23.92	19.34	5.97
16.0	13.43	34.67	18.58	11.16	5.31	0.93	23.94	18.66	5.96
16.5	13.53	34.13	18.59	11.40	4.95	0.93	24.03	18.46	5.99
17.0	13.61	33.49	18.30	11.72	4.59	0.94	23.98	18.99	5.88
17.5	13.67	33.09	17.86	12.25	4.37	0.95	24.17	19.41	5.88
18.0	13.67	32.66	17.11	13.04	4.19	0.96	23.36	19.12	5.82
18.5	13.65	32.10	16.11	14.11	3.97	0.97	23.01	19.10	5.92
19.0	13.58	31.70	14.79	15.47	3.83	0.99	23.09	18.55	5.92
19.5	13.41	31.34	13.48	17.39	3.74	1.02	23.16	18.11	6.08
20.0	13.15	31.19	12.29	19.98	3.76	1.04	23.85	17.45	6.24
20.5	12.75	31.10	11.21	22.78	3.84	1.06	23.75	17.53	6.09
21.0	12.24	31.22	10.26	23.16	4.05	1.08	24.49	16.95	5.99
21.5	11.63	31.13	9.41	20.55	4.18	1.10	24.97	16.34	6.08
22.0	10.93	30.79	8.73	17.89	4.24	1.11	25.33	16.10	6.18



*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 = 126mA @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)			(dBm)	(dBm)	(dB)
4.4	6.19	35.51	8.44	4.15	7.97	0.69	23.61	14.65	13.70
4.6	8.65	37.53	9.78	4.64	8.36	0.71	27.31	15.43	11.89
4.8	10.31	40.37	10.09	5.45	10.43	0.77	31.18	16.65	10.42
5.0	11.33	41.65	10.31	6.40	11.64	0.83	30.06	17.34	9.19
5.2	12.02	41.47	10.74	7.35	11.22	0.88	28.87	18.03	8.29
5.4	12.52	40.92	11.38	8.29	10.51	0.90	28.43	18.41	7.64
5.6	12.90	39.91	12.16	9.17	9.35	0.92	28.35	18.24	7.01
5.8	13.19	39.44	13.05	9.99	8.87	0.94	28.35	18.65	6.54
6.0	13.41	38.82	14.04	10.71	8.26	0.94	28.26	18.31	6.21
6.2	13.58	38.41	15.13	11.31	7.89	0.95	28.18	18.42	5.93
6.4	13.70	37.94	16.32	11.84	7.50	0.95	28.10	18.66	5.67
6.6	13.79	37.87	17.65	12.23	7.43	0.95	28.07	18.53	5.53
6.8	13.84	37.55	19.11	12.52	7.19	0.95	28.04	18.80	5.39
7.0	13.87	37.44	20.75	12.68	7.11	0.95	28.06	19.10	5.32
7.2	13.88	37.24	22.55	12.78	6.96	0.95	27.93	19.00	5.21
7.4	13.87	37.14	24.61	12.79	6.91	0.95	27.86	19.01	5.17
7.6	13.86	37.16	27.04	12.76	6.95	0.94	27.86	19.21	5.14
7.8	13.82	37.22	29.65	12.68	7.02	0.94	27.66	18.78	5.11
8.0	13.79	37.26	32.02	12.58	7.07	0.94	27.63	18.95	5.14
8.5	13.67	37.12	30.09	12.30	7.02	0.94	27.35	18.72	5.14
9.0	13.54	36.97	25.75	11.99	6.97	0.94	27.13	18.16	5.17
9.5	13.40	37.10	23.11	11.71	7.13	0.93	26.97	19.05	5.21
10.0	13.24	37.28	21.37	11.46	7.36	0.93	26.64	19.49	5.38
10.5	13.12	37.34	20.20	11.24	7.48	0.93	26.59	20.21	5.52
11.0	13.00	37.23	19.34	11.09	7.46	0.93	26.37	20.15	5.57
11.5	12.91	37.29	18.65	10.94	7.54	0.93	25.94	19.53	5.69
12.0	12.84	37.21	18.19	10.85	7.51	0.93	25.61	19.72	5.71
12.5	12.80	37.29	17.82	10.74	7.59	0.93	25.31	19.55	5.68
13.0	12.77	37.17	17.54	10.67	7.49	0.93	25.07	19.75	5.76
13.5	12.75	37.26	17.47	10.69	7.58	0.93	24.78	20.09	5.83
14.0	12.75	36.71	17.43	10.69	7.13	0.93	24.44	19.85	5.80
14.5	12.79	36.33	17.47	10.69	6.80	0.93	24.23	19.66	5.85
15.0	12.83	35.98	17.50	10.74	6.51	0.93	23.91	19.93	6.08
15.5	12.89	35.57	17.54	10.84	6.18	0.93	23.51	20.09	6.08
16.0	12.96	34.99	17.58	10.99	5.76	0.93	23.41	19.69	6.04
16.5	13.04	34.44	17.58	11.22	5.38	0.93	23.32	19.50	6.11
17.0	13.10	33.90	17.33	11.53	5.05	0.94	23.08	19.88	6.01
17.5	13.15	33.40	16.97	12.03	4.77	0.95	22.91	20.23	5.91
18.0	13.13	33.01	16.43	12.77	4.60	0.96	22.83	20.04	5.93
18.5	13.10	32.53	15.62	13.70	4.40	0.98	22.74	20.11	6.04
19.0	13.02	32.03	14.52	14.86	4.20	0.99	22.71	19.63	6.01
19.5	12.86	31.65	13.38	16.39	4.09	1.01	22.53	19.21	6.20
20.0	12.62	31.50	12.32	18.30	4.11	1.04	22.85	18.56	6.30
20.5	12.25	31.35	11.29	20.14	4.16	1.06	23.07	18.67	6.21
21.0	11.77	31.31	10.36	20.74	4.30	1.08	23.40	18.12	6.08
21.5	11.20	31.33	9.52	19.37	4.48	1.09	24.11	17.52	6.22
22.0	10.54	31.05	8.83	17.45	4.55	1.11	24.76	17.32	6.31

