

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 = 138.14mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)			(dBm)	(dBm)	(dB)
2000	24.82	64.21	17.43	29.77	45.75	1.02	27.63	16.09	7.85
2500	23.63	62.16	15.19	23.86	40.75	1.03	27.82	16.11	8.12
3000	22.48	60.77	14.20	21.80	39.26	1.03	27.83	16.13	8.34
3500	21.88	59.56	14.36	21.00	36.60	1.03	27.83	16.23	8.47
4000	21.77	58.41	15.53	20.89	32.76	1.02	28.29	16.14	8.44
4500	21.84	57.40	17.29	21.41	29.24	1.01	28.61	16.01	8.23
5000	21.94	56.75	19.63	21.88	27.07	1.00	28.48	16.08	8.03
5500	21.94	56.34	23.13	21.90	25.96	1.00	29.08	15.89	7.74
6000	21.86	56.20	28.69	22.02	25.88	0.99	29.01	15.96	7.57
6500	21.71	56.82	32.59	22.44	28.29	0.99	28.97	15.99	7.35
7000	21.50	58.26	26.77	23.91	34.21	1.00	28.41	16.00	7.25
7500	21.23	59.40	22.53	26.82	40.19	1.00	28.65	15.90	7.03
8000	20.93	61.92	19.98	31.79	55.45	1.01	28.77	15.87	6.86
8500	20.61	63.59	18.19	37.58	69.31	1.01	29.13	15.61	6.71
9000	20.44	53.72	16.24	35.60	22.51	1.02	29.26	15.35	6.67
9500	20.44	48.80	14.54	28.83	12.62	1.03	29.04	15.28	6.55
10000	20.00	51.32	15.13	27.03	17.81	1.03	29.21	15.23	6.34
10500	19.60	52.12	14.90	26.80	20.41	1.03	30.41	14.57	6.29
11000	19.42	48.01	13.72	22.63	12.81	1.04	30.07	14.26	6.17
11500	19.48	47.13	13.12	17.59	11.27	1.03	29.20	14.25	5.99
12000	19.41	49.31	14.35	15.12	14.57	1.01	28.63	13.90	5.99
12500	19.37	51.44	16.64	13.64	18.78	0.98	28.67	14.16	5.83
13000	19.36	53.19	21.19	12.47	23.02	0.95	27.75	13.76	5.80
13500	19.43	54.42	32.59	12.04	26.32	0.94	27.83	13.84	5.65
14000	19.54	55.04	21.29	12.17	27.75	0.95	27.66	14.32	5.63
14500	19.63	55.21	14.90	12.52	27.44	0.97	27.49	14.59	5.65
15000	19.74	54.87	11.25	13.91	25.37	1.03	27.50	15.11	5.62
15500	19.73	53.80	9.17	16.24	21.75	1.09	27.32	15.21	5.64
16000	19.63	52.11	8.01	18.70	17.52	1.14	27.22	15.37	5.54
16500	19.48	51.03	7.58	22.32	15.51	1.17	27.07	15.69	5.48
17000	19.27	49.77	7.66	23.10	13.80	1.17	27.04	15.69	5.38
17500	19.32	47.36	8.35	17.51	10.59	1.12	26.66	15.57	5.30
18000	19.04	44.50	9.47	13.01	7.99	1.05	26.66	15.61	5.31
18500	18.46	42.20	10.53	10.46	6.50	0.98	26.67	15.38	5.47
19000	18.08	41.18	13.74	9.56	6.16	0.92	26.34	15.28	5.30
19500	17.36	40.68	19.93	8.29	6.23	0.85	26.04	15.33	5.10
20000	16.07	40.13	16.94	7.33	6.46	0.82	25.92	15.64	5.22

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 = 136.57mA @ Temperature = -45°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
2000	26.11	64.17	17.31	34.94	39.25	1.02	30.34	15.06	6.68
2500	24.94	61.91	15.33	28.01	34.22	1.03	30.81	15.10	6.89
3000	23.75	60.66	14.33	25.35	33.65	1.03	30.81	15.12	7.14
3500	23.16	59.39	14.50	24.47	31.15	1.03	31.07	15.19	7.28
4000	23.10	58.04	15.62	24.08	27.06	1.02	31.79	15.17	7.23
4500	23.25	57.27	17.22	23.96	24.56	1.01	32.16	15.07	7.01
5000	23.40	56.47	19.64	23.31	22.17	1.01	31.87	15.10	6.84
5500	23.44	56.08	23.15	21.85	21.19	1.00	32.18	15.08	6.57
6000	23.38	55.95	28.12	20.81	21.07	0.99	32.87	15.01	6.33
6500	23.23	56.55	30.32	20.43	22.95	0.99	32.83	14.99	6.16
7000	23.02	57.76	27.08	21.19	27.03	0.99	32.16	15.00	6.08
7500	22.75	58.95	23.35	22.31	31.96	1.00	32.50	14.98	5.84
8000	22.44	61.12	20.99	23.85	42.43	1.00	32.44	15.01	5.72
8500	22.12	61.48	19.10	25.37	45.75	1.01	32.30	14.82	5.53
9000	21.93	53.35	16.50	24.01	18.13	1.02	31.88	14.66	5.51
9500	22.04	47.93	13.61	21.88	9.37	1.04	31.94	14.59	5.39
10000	21.60	50.21	13.92	26.21	12.90	1.04	32.26	14.58	5.24
10500	21.17	51.87	14.24	29.54	16.49	1.04	30.53	14.09	5.18
11000	20.95	48.21	13.35	24.88	10.97	1.04	29.54	13.85	5.03
11500	21.09	46.32	12.31	18.17	8.46	1.04	29.30	13.93	4.93
12000	21.08	48.33	13.64	15.39	10.70	1.01	28.10	13.56	4.88
12500	21.06	50.35	16.14	13.67	13.60	0.98	29.03	13.72	4.74
13000	21.06	52.14	21.05	12.34	16.73	0.95	27.71	13.58	4.62
13500	21.16	53.35	36.57	11.79	19.01	0.93	27.76	13.49	4.54
14000	21.30	53.94	22.42	11.66	19.85	0.94	27.94	13.95	4.48
14500	21.46	53.89	15.06	12.12	19.01	0.97	27.93	14.24	4.57
15000	21.64	53.50	11.03	13.32	17.22	1.03	28.68	14.46	4.46
15500	21.75	52.72	8.68	15.16	14.88	1.10	28.80	14.47	4.43
16000	21.72	50.96	7.40	18.05	11.74	1.16	28.66	14.67	4.33
16500	21.59	49.77	6.69	20.99	10.01	1.20	28.68	14.95	4.33
17000	21.33	48.64	6.99	21.08	9.19	1.19	28.55	15.08	4.27
17500	21.46	46.62	7.88	16.69	7.43	1.14	28.06	15.12	4.19
18000	21.30	43.93	9.23	12.93	5.75	1.05	27.98	15.15	4.13
18500	20.61	41.39	9.92	10.16	4.58	0.97	27.36	15.00	4.46
19000	20.15	40.14	11.81	9.80	4.29	0.93	27.14	14.91	4.14
19500	19.49	39.48	16.47	9.15	4.37	0.88	27.16	14.94	3.89
20000	18.30	39.03	16.55	7.85	4.54	0.84	27.39	15.29	3.92

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 = 135.12mA @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
2000	23.60	64.35	17.18	24.10	53.24	1.02	28.70	15.68	8.88
2500	22.40	62.31	14.82	20.53	47.43	1.02	28.99	15.67	9.14
3000	21.27	60.80	13.94	19.21	44.87	1.03	28.97	15.69	9.36
3500	20.67	59.53	14.29	18.75	41.67	1.02	28.87	15.82	9.47
4000	20.50	58.47	15.60	18.78	37.96	1.01	29.50	15.68	9.40
4500	20.52	57.53	17.37	19.54	34.42	1.01	29.98	15.54	9.20
5000	20.57	56.82	19.78	20.48	31.89	1.00	29.64	15.63	9.02
5500	20.55	56.40	23.67	21.30	30.65	1.00	30.55	15.28	8.72
6000	20.46	56.28	30.10	22.36	30.69	0.99	30.46	15.47	8.50
6500	20.32	56.76	37.12	23.86	33.03	1.00	30.28	15.57	8.32
7000	20.13	57.98	27.32	27.19	38.90	1.00	29.39	15.66	8.19
7500	19.88	58.80	22.43	35.13	43.85	1.01	29.59	15.51	7.98
8000	19.60	61.00	19.63	41.83	58.08	1.01	29.77	15.43	7.81
8500	19.30	64.30	18.13	30.65	87.50	1.01	30.12	15.09	7.59
9000	19.07	57.97	16.59	29.18	43.03	1.02	30.26	14.74	7.57
9500	19.02	50.43	15.21	29.89	18.03	1.03	30.03	14.68	7.46
10000	18.62	51.52	16.18	24.31	21.48	1.02	30.14	14.61	7.29
10500	18.22	51.90	15.81	24.05	23.44	1.02	30.38	13.92	7.21
11000	18.04	47.83	14.77	21.62	14.82	1.03	29.35	13.54	7.10
11500	18.07	47.40	14.24	17.58	13.83	1.02	28.37	13.43	6.96
12000	17.98	49.82	15.61	15.35	18.45	1.00	27.62	13.15	6.93
12500	17.91	52.14	17.69	14.10	24.30	0.98	28.08	13.43	6.81
13000	17.87	54.19	21.12	12.92	30.84	0.96	26.75	12.93	6.81
13500	17.91	55.81	31.06	12.52	37.03	0.94	27.10	13.09	6.64
14000	18.00	56.63	24.02	12.96	40.39	0.95	26.97	13.46	6.57
14500	18.04	56.96	16.67	12.89	40.97	0.97	26.91	13.67	6.56
15000	18.09	56.78	12.45	14.12	39.01	1.02	27.20	14.32	6.56
15500	18.03	55.68	10.24	16.23	33.78	1.07	27.19	14.49	6.58
16000	17.87	53.98	8.74	18.26	27.33	1.12	27.13	14.59	6.52
16500	17.73	52.75	8.46	22.55	24.03	1.14	27.06	14.95	6.52
17000	17.54	51.43	8.27	23.75	20.95	1.14	26.98	14.83	6.40
17500	17.49	48.55	8.55	17.62	15.11	1.12	26.57	14.63	6.35
18000	17.16	45.49	9.57	12.42	11.02	1.04	26.52	14.61	6.32
18500	16.64	43.33	11.02	10.00	9.06	0.96	26.14	14.15	6.35
19000	16.28	42.52	15.63	8.96	8.76	0.89	25.82	14.04	6.26
19500	15.53	42.07	30.55	7.94	8.93	0.84	25.28	14.06	6.16
20000	14.14	41.44	16.78	7.25	9.29	0.82	25.20	14.34	6.28