

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 = 2.00V, Id = 20mA @ 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)
100	22.12	51.36	0.00	4.38	0.01	1.27	24.22	13.03	0.65
200	22.10	45.16	0.02	4.41	0.03	1.27	24.10	12.96	0.58
300	22.06	41.41	0.04	4.44	0.06	1.27	24.38	13.24	0.64
400	22.01	39.22	0.07	4.47	0.06	1.27	24.50	12.81	0.69
500	21.95	37.29	0.11	4.52	0.09	1.26	24.04	12.88	0.68
1000	21.55	31.62	0.44	4.84	0.18	1.23	23.41	13.30	0.64
2000	20.28	26.75	1.44	5.77	0.34	1.14	23.19	12.84	0.67
3000	18.93	24.38	2.51	6.64	0.47	1.07	23.52	12.67	0.76
4000	17.82	22.73	3.60	7.68	0.57	1.01	23.67	12.76	0.72
5000	16.89	21.36	4.77	9.38	0.67	0.97	23.76	13.15	0.67
6000	15.88	20.35	5.89	12.39	0.78	0.95	25.45	13.20	0.75
7000	14.66	19.78	6.45	16.16	0.88	0.97	26.32	13.41	0.81
8000	13.39	19.40	6.55	17.80	0.97	1.00	26.56	13.41	0.83
9000	12.28	18.91	6.72	17.59	1.03	1.01	28.24	13.73	0.80
10000	11.37	18.29	7.12	17.44	1.07	1.00	28.98	13.52	0.78
11000	10.54	17.64	7.57	17.37	1.12	0.98	27.83	13.64	0.99
12000	9.70	17.04	7.48	16.35	1.15	0.97	29.89	13.33	1.01
13000	8.77	16.53	6.94	14.92	1.17	0.98	27.54	13.20	1.02
14000	7.89	15.98	6.59	14.26	1.19	0.99	30.01	13.42	1.13
15000	7.22	15.23	6.72	14.60	1.20	0.98	30.88	13.61	1.21
16000	6.66	14.35	7.07	15.31	1.19	0.96	30.61	13.91	1.37
17000	6.08	13.47	7.17	14.83	1.18	0.93	30.15	13.71	1.13
18000	5.36	12.71	6.87	12.99	1.17	0.90	32.36	13.46	1.27
19000	4.51	12.04	6.35	11.28	1.15	0.88	33.58	12.72	1.57
20000	3.65	11.35	5.98	10.19	1.14	0.86	34.36	12.55	2.00

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Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Vd = 4.00V, Id = 40mA @ 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)	K	Measure	(dBm)	(dBm)	(dB)
100	23.49	51.66	0.05	5.77	0.13	1.46	27.30	17.57	1.76
200	23.46	45.86	0.06	5.80	0.08	1.46	27.55	17.67	1.26
300	23.42	42.17	0.09	5.82	0.09	1.45	28.09	17.75	1.18
400	23.36	39.63	0.13	5.85	0.11	1.45	28.38	17.71	1.09
500	23.30	37.76	0.18	5.90	0.12	1.44	28.17	17.77	0.99
1000	22.84	32.16	0.55	6.28	0.22	1.38	27.94	17.68	0.85
2000	21.44	27.33	1.70	7.34	0.39	1.23	28.44	17.76	0.83
3000	19.98	24.90	2.90	8.30	0.53	1.10	28.90	17.89	0.90
4000	18.75	23.13	4.12	9.46	0.64	1.00	29.48	18.10	0.88
5000	17.70	21.68	5.38	11.40	0.73	0.93	30.06	18.60	0.86
6000	16.57	20.64	6.53	14.82	0.83	0.89	31.04	18.90	0.88
7000	15.28	19.94	6.99	17.90	0.92	0.89	31.45	19.17	1.01
8000	13.97	19.40	7.00	17.42	0.99	0.91	31.89	19.13	0.95
9000	12.85	18.81	7.15	16.75	1.03	0.92	32.75	19.52	0.92
10000	11.92	18.07	7.57	16.77	1.06	0.91	33.27	19.39	0.96
11000	11.08	17.35	8.03	16.55	1.10	0.89	33.34	19.47	1.18
12000	10.21	16.69	7.89	15.19	1.12	0.88	33.45	19.19	1.25
13000	9.27	16.16	7.29	13.57	1.14	0.88	33.58	19.07	1.22
14000	8.37	15.57	6.91	12.90	1.15	0.89	34.26	19.27	1.20
15000	7.68	14.82	7.06	13.23	1.16	0.89	35.11	19.38	1.49
16000	7.10	13.95	7.45	13.89	1.16	0.87	34.37	19.68	1.58
17000	6.50	13.11	7.56	13.53	1.15	0.84	33.98	19.37	1.58
18000	5.75	12.39	7.24	11.99	1.14	0.81	35.90	18.07	1.61
19000	4.88	11.77	6.68	10.53	1.13	0.80	35.96	16.95	2.01
20000	4.00	11.12	6.28	9.61	1.13	0.79	36.53	13.85	2.33

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 = 2.00V, Id = 20mA @ 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)
100	23.83	51.46	0.02	5.93	0.04	1.49	22.81	12.66	0.50
200	23.79	45.95	0.03	5.96	0.06	1.48	22.60	12.59	0.46
300	23.75	42.60	0.06	5.99	0.07	1.48	22.91	12.68	0.53
400	23.70	40.12	0.09	6.01	0.09	1.47	22.96	12.59	0.56
500	23.64	38.11	0.14	6.06	0.11	1.46	22.57	12.51	0.55
1000	23.20	32.46	0.51	6.44	0.21	1.40	21.71	12.52	0.50
2000	21.80	27.55	1.67	7.51	0.39	1.24	21.39	12.26	0.52
3000	20.32	25.09	2.88	8.43	0.53	1.10	21.74	11.93	0.59
4000	19.11	23.29	4.13	9.61	0.64	0.99	21.73	12.07	0.55
5000	18.05	21.86	5.43	11.54	0.73	0.91	21.67	12.66	0.44
6000	16.92	20.75	6.60	14.92	0.83	0.87	23.55	13.00	0.56
7000	15.64	20.02	7.10	18.01	0.91	0.87	24.57	13.28	0.61
8000	14.31	19.49	7.05	17.23	0.98	0.89	24.79	13.28	0.59
9000	13.19	18.85	7.22	16.98	1.02	0.90	26.44	13.63	0.55
10000	12.30	18.10	7.73	17.49	1.05	0.89	27.60	13.55	0.55
11000	11.46	17.33	8.21	17.06	1.08	0.86	26.29	13.67	0.72
12000	10.57	16.70	7.95	15.31	1.10	0.85	29.08	13.25	0.65
13000	9.62	16.15	7.34	13.40	1.12	0.85	27.20	13.25	0.71
14000	8.71	15.57	6.93	12.41	1.13	0.86	28.71	13.47	0.66
15000	8.01	14.84	7.03	12.69	1.13	0.86	30.14	13.69	0.71
16000	7.46	13.93	7.54	13.86	1.13	0.84	29.37	14.04	0.96
17000	6.88	13.06	7.76	13.72	1.12	0.81	28.92	13.88	0.78
18000	6.12	12.35	7.36	12.06	1.12	0.78	31.93	13.62	0.77
19000	5.26	11.73	6.74	10.80	1.11	0.78	32.53	12.85	1.17
20000	4.39	11.09	6.32	9.79	1.11	0.76	35.09	12.70	1.49

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 = 4.00V, Id = 40mA @ 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)			(dBm)	(dBm)	(dB)
100	23.71	51.14	0.11	4.94	0.45	1.32	27.63	18.10	1.73
200	23.67	46.21	0.11	4.89	0.27	1.31	28.05	18.21	1.20
300	23.64	42.41	0.14	4.90	0.20	1.31	28.66	18.29	1.03
400	23.60	40.10	0.17	4.93	0.19	1.30	28.92	18.26	0.94
500	23.53	38.29	0.22	4.97	0.19	1.30	28.59	18.33	0.89
1000	23.09	32.59	0.59	5.36	0.24	1.26	28.76	18.24	0.67
2000	21.63	27.79	1.76	6.42	0.40	1.15	29.05	18.31	0.65
3000	20.12	25.44	2.97	7.31	0.54	1.05	29.56	18.40	0.69
4000	18.90	23.72	4.23	8.44	0.64	0.97	30.19	18.64	0.67
5000	17.80	22.34	5.53	10.20	0.74	0.93	30.71	19.00	0.58
6000	16.67	21.30	6.64	13.33	0.84	0.92	31.38	19.22	0.67
7000	15.42	20.54	7.02	17.92	0.93	0.93	31.70	19.48	0.65
8000	14.11	20.05	6.89	19.72	1.00	0.97	32.26	19.38	0.71
9000	13.02	19.42	7.08	19.70	1.05	0.98	33.33	19.88	0.66
10000	12.14	18.66	7.52	19.87	1.08	0.96	33.41	19.68	0.68
11000	11.30	17.88	7.95	19.57	1.11	0.94	33.66	19.78	0.76
12000	10.45	17.23	7.74	18.31	1.13	0.94	33.53	19.46	0.82
13000	9.52	16.64	7.04	15.87	1.14	0.94	32.97	19.30	0.83
14000	8.61	16.05	6.59	14.39	1.15	0.95	34.24	19.54	0.85
15000	7.93	15.27	6.78	14.85	1.15	0.95	35.22	19.71	1.01
16000	7.39	14.32	7.20	16.53	1.14	0.93	36.10	19.96	1.09
17000	6.84	13.40	7.34	15.66	1.13	0.89	34.32	19.69	1.08
18000	6.11	12.63	7.00	13.60	1.11	0.86	35.21	18.25	1.20
19000	5.33	11.89	6.52	12.43	1.10	0.85	34.37	17.07	1.49
20000	4.48	11.18	6.07	10.92	1.09	0.83	35.48	14.25	1.79

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 = 2.00V, Id = 20mA @ 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)			(dBm)	(dBm)	(dB)
100	23.82	51.77	0.01	5.16	0.03	1.39	24.36	13.03	0.81
200	23.77	45.94	0.02	5.19	0.03	1.39	24.26	12.95	0.72
300	23.74	42.49	0.04	5.23	0.04	1.39	24.55	13.26	0.82
400	23.69	39.92	0.08	5.27	0.08	1.38	24.73	12.82	0.81
500	23.63	38.14	0.13	5.32	0.10	1.37	24.30	12.89	0.81
1000	23.19	32.46	0.51	5.73	0.20	1.33	23.73	13.32	0.78
2000	21.74	27.63	1.70	6.81	0.39	1.19	23.65	12.88	0.88
3000	20.23	25.22	2.92	7.74	0.53	1.07	23.91	12.71	0.95
4000	19.01	23.48	4.18	8.92	0.64	0.98	24.09	12.81	0.87
5000	17.92	22.09	5.48	10.76	0.73	0.92	24.10	13.23	0.92
6000	16.78	21.03	6.60	14.05	0.83	0.90	25.62	13.27	0.95
7000	15.51	20.28	7.02	18.18	0.92	0.91	26.36	13.51	1.07
8000	14.18	19.77	6.91	18.62	0.99	0.93	26.73	13.33	1.05
9000	13.08	19.13	7.10	18.48	1.03	0.94	28.25	13.80	1.03
10000	12.20	18.36	7.56	18.84	1.06	0.93	29.11	13.57	0.99
11000	11.36	17.60	8.01	18.41	1.09	0.91	28.03	13.71	1.31
12000	10.49	16.94	7.80	16.87	1.11	0.90	29.99	13.43	1.41
13000	9.55	16.38	7.11	14.58	1.13	0.90	28.02	13.27	1.47
14000	8.63	15.81	6.67	13.28	1.14	0.91	30.10	13.49	1.35
15000	7.95	15.04	6.85	13.75	1.14	0.91	30.72	13.68	1.47
16000	7.41	14.11	7.29	15.21	1.13	0.89	30.74	13.89	1.64
17000	6.84	13.22	7.44	14.51	1.12	0.85	30.82	13.67	1.63
18000	6.10	12.47	7.09	12.75	1.11	0.83	32.03	13.47	1.68
19000	5.30	11.78	6.60	11.68	1.10	0.82	33.30	12.67	2.24
20000	4.44	11.11	6.15	10.35	1.10	0.80	33.92	12.59	2.38

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Output Return Loss = -S22 (dB)

TEST CONDITIONS: Vd = 4.00V, Id = 40mA @ 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)			(dBm)	(dBm)	(dB)
100	23.20	51.72	0.15	4.70	0.34	1.30	26.02	16.51	1.86
200	23.16	45.92	0.17	4.77	0.20	1.31	26.28	16.62	1.41
300	23.11	42.42	0.20	4.81	0.16	1.31	26.76	16.69	1.30
400	23.05	39.77	0.24	4.85	0.16	1.30	27.02	16.65	1.23
500	22.99	37.82	0.28	4.91	0.17	1.29	26.71	16.71	1.14
1000	22.52	32.23	0.66	5.29	0.23	1.26	26.39	16.62	0.97
2000	21.13	27.35	1.78	6.33	0.39	1.15	26.98	16.94	1.00
3000	19.67	24.99	2.98	7.33	0.53	1.06	27.41	17.25	1.06
4000	18.42	23.34	4.18	8.41	0.63	0.99	28.09	17.33	1.04
5000	17.38	21.98	5.41	10.15	0.73	0.94	28.57	17.69	0.95
6000	16.29	20.91	6.56	13.37	0.84	0.92	29.51	18.40	1.10
7000	15.02	20.26	7.02	17.30	0.93	0.94	30.14	18.85	1.11
8000	13.74	19.76	7.07	18.79	1.01	0.96	30.38	18.80	1.17
9000	12.63	19.18	7.19	18.41	1.06	0.97	31.49	19.22	1.14
10000	11.69	18.52	7.48	17.98	1.10	0.97	31.96	19.08	1.19
11000	10.83	17.78	7.92	17.67	1.13	0.95	31.69	19.14	1.43
12000	9.99	17.13	7.90	16.68	1.16	0.94	32.62	18.84	1.44
13000	9.07	16.56	7.32	15.20	1.18	0.95	32.47	18.81	1.45
14000	8.19	15.96	6.99	14.55	1.19	0.96	32.89	18.89	1.44
15000	7.53	15.14	7.28	15.25	1.19	0.95	33.95	19.13	1.65
16000	6.96	14.24	7.64	16.18	1.19	0.92	33.98	19.40	1.74
17000	6.34	13.41	7.55	15.17	1.18	0.90	32.88	19.09	1.65
18000	5.57	12.67	7.14	12.93	1.16	0.87	34.99	17.75	1.88
19000	4.69	12.02	6.59	11.27	1.15	0.86	35.73	16.63	2.32
20000	3.80	11.34	6.21	10.19	1.15	0.84	36.37	13.52	2.94