

## 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 = 5V, Id = 82.76mA @ Temperature = +25degC

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)
50.0	16.53	22.23	15.73	14.35	1.13	0.75	38.96	19.87	4.69
100.0	16.17	21.84	14.55	16.24	1.14	0.77	38.28	19.57	4.76
200.0	15.89	21.53	14.07	17.76	1.14	0.77	37.90	19.70	4.67
300.0	15.79	21.51	14.04	17.96	1.15	0.78	37.78	19.74	4.83
400.0	15.73	21.50	14.03	17.87	1.15	0.78	38.29	19.71	4.77
500.0	15.69	21.52	14.11	17.52	1.16	0.78	37.43	19.70	4.82
600.0	15.65	21.61	14.22	17.09	1.17	0.78	37.22	19.63	4.91
700.0	15.61	21.59	14.31	16.65	1.17	0.78	36.88	19.66	4.88
800.0	15.54	21.71	14.64	16.07	1.19	0.79	36.58	19.66	4.89
900.0	15.54	21.70	14.88	15.45	1.18	0.78	36.49	19.59	4.91
1000.0	15.53	21.77	15.03	14.98	1.19	0.78	35.63	19.60	4.84
1100.0	15.50	21.81	15.27	14.51	1.19	0.78	35.81	19.68	4.95
1200.0	15.48	21.86	15.59	14.06	1.20	0.77	35.79	19.61	4.93
1300.0	15.45	21.88	15.98	13.65	1.20	0.77	35.26	19.53	5.02
1400.0	15.44	21.90	16.42	13.30	1.20	0.76	35.10	19.55	5.00
1500.0	15.42	22.00	16.91	12.96	1.21	0.76	35.20	19.43	4.97
1600.0	15.41	22.02	17.40	12.65	1.21	0.76	35.18	19.52	5.02
1700.0	15.39	22.05	18.01	12.37	1.22	0.75	35.17	19.37	5.00
1800.0	15.38	22.13	18.66	12.12	1.22	0.75	35.01	19.34	4.99
1900.0	15.37	22.18	19.41	11.92	1.23	0.75	34.53	19.33	4.98
2000.0	15.36	22.21	20.23	11.75	1.23	0.75	34.21	19.22	4.99
2200.0	15.35	22.28	22.56	11.47	1.24	0.74	33.51	19.06	4.98
2400.0	15.36	22.39	25.53	11.36	1.25	0.74	32.83	19.01	5.03
2600.0	15.38	22.45	29.94	11.41	1.26	0.74	32.12	18.71	4.99
2800.0	15.41	22.48	37.62	11.51	1.27	0.74	31.63	18.60	5.05
3000.0	15.46	22.48	38.77	11.80	1.27	0.74	31.16	18.17	5.00
3200.0	15.51	22.53	31.96	12.25	1.28	0.74	30.59	17.88	5.00
3400.0	15.56	22.50	28.32	12.98	1.28	0.75	29.87	17.31	5.04
3600.0	15.62	22.47	26.79	13.77	1.28	0.75	29.35	16.93	4.99
3800.0	15.66	22.46	25.82	14.77	1.28	0.76	28.71	16.58	4.97
4000.0	15.67	22.46	26.04	15.77	1.29	0.77	27.92	16.03	4.98
4500.0	15.55	22.49	28.67	15.89	1.30	0.78	25.77	14.57	5.09
5000.0	15.29	22.47	27.39	12.60	1.29	0.76	24.27	13.64	4.95
5500.0	15.04	22.29	22.87	9.72	1.24	0.71	23.16	12.81	5.13
6000.0	14.41	22.08	18.86	9.00	1.25	0.72	22.16	12.00	5.24
6500.0	13.71	21.74	14.80	9.54	1.27	0.77	21.14	11.23	5.41
7000.0	12.81	21.59	11.73	10.11	1.34	0.83	20.73	10.69	5.49
7500.0	11.49	21.65	9.65	8.90	1.44	0.85	19.81	10.08	5.69
8000.0	9.77	22.10	8.50	6.76	1.59	0.81	18.81	9.35	5.99

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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: Vd = 5V, Id = 83.36mA @ Temperature = -45degC

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)
50.0	16.60	21.86	15.24	14.46	1.10	0.73	39.32	19.56	3.92
100.0	16.26	21.90	14.53	16.07	1.13	0.77	38.41	19.28	4.00
200.0	15.98	21.62	14.18	17.43	1.14	0.77	37.95	19.39	3.90
300.0	15.90	21.57	14.11	17.74	1.14	0.77	38.02	19.44	3.92
400.0	15.84	21.59	13.98	17.77	1.15	0.78	38.52	19.44	3.96
500.0	15.80	21.58	13.98	17.46	1.15	0.78	37.74	19.42	3.99
600.0	15.77	21.57	14.11	16.99	1.15	0.78	37.75	19.36	4.07
700.0	15.74	21.60	14.22	16.57	1.16	0.78	37.31	19.40	4.02
800.0	15.66	21.73	14.46	16.18	1.18	0.78	37.05	19.39	4.04
900.0	15.67	21.73	14.61	15.58	1.17	0.78	37.10	19.36	4.09
1000.0	15.66	21.74	14.67	15.08	1.17	0.77	36.18	19.26	4.06
1100.0	15.63	21.79	14.88	14.59	1.18	0.77	36.40	19.38	4.08
1200.0	15.61	21.80	15.20	14.20	1.18	0.77	36.50	19.32	4.09
1300.0	15.60	21.85	15.45	13.87	1.18	0.77	36.10	19.30	4.19
1400.0	15.58	21.93	15.69	13.54	1.19	0.77	35.89	19.29	4.18
1500.0	15.56	21.94	16.06	13.09	1.19	0.76	35.99	19.15	4.15
1600.0	15.55	21.93	16.52	12.72	1.19	0.75	35.97	19.21	4.15
1700.0	15.54	22.03	17.00	12.49	1.20	0.75	36.17	19.18	4.16
1800.0	15.54	22.06	17.49	12.35	1.20	0.75	36.08	19.14	4.17
1900.0	15.53	22.12	18.01	12.14	1.21	0.75	35.63	19.19	4.14
2000.0	15.51	22.09	18.62	11.89	1.20	0.74	35.35	19.03	4.15
2200.0	15.50	22.22	20.25	11.55	1.22	0.74	34.83	18.96	4.11
2400.0	15.52	22.29	22.20	11.48	1.22	0.74	34.20	19.09	4.14
2600.0	15.54	22.24	24.85	11.37	1.22	0.73	33.48	18.86	4.17
2800.0	15.58	22.30	27.97	11.46	1.23	0.73	33.02	18.73	4.17
3000.0	15.63	22.31	30.42	11.71	1.23	0.73	32.61	18.41	4.18
3200.0	15.69	22.34	30.99	12.14	1.24	0.73	32.15	18.33	4.11
3400.0	15.75	22.34	29.75	12.74	1.24	0.73	31.49	17.88	4.20
3600.0	15.83	22.26	28.59	13.40	1.23	0.73	31.13	17.59	4.10
3800.0	15.90	22.23	27.38	14.29	1.23	0.74	30.71	17.32	4.09
4000.0	15.93	22.20	26.74	15.49	1.23	0.74	30.08	16.85	4.06
4500.0	15.85	22.27	25.37	15.66	1.25	0.75	27.92	15.35	4.15
5000.0	15.73	22.34	22.01	11.81	1.23	0.72	26.39	14.52	4.05
5500.0	15.61	22.22	19.51	8.78	1.17	0.64	25.16	13.68	4.24
6000.0	15.12	22.04	17.36	7.90	1.16	0.63	24.07	12.89	4.31
6500.0	14.64	21.67	14.41	8.17	1.15	0.67	22.78	12.11	4.48
7000.0	13.94	21.44	11.46	8.58	1.17	0.73	22.25	11.52	4.57
7500.0	12.78	21.52	9.32	7.61	1.23	0.76	21.06	10.90	4.72
8000.0	11.18	21.93	8.07	5.89	1.31	0.72	19.71	10.11	4.96

## 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 = 77.97mA @ Temperature = +85degC

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)
50.0	16.45	21.45	15.75	14.49	1.09	0.71	39.50	20.02	5.31
100.0	16.09	21.74	14.64	16.33	1.14	0.77	38.58	19.68	5.39
200.0	15.79	21.49	14.03	18.06	1.15	0.78	38.17	19.77	5.30
300.0	15.69	21.46	13.99	18.22	1.15	0.78	38.09	19.84	5.32
400.0	15.62	21.47	14.11	17.92	1.16	0.78	38.25	19.76	5.40
500.0	15.58	21.50	14.29	17.46	1.17	0.78	37.52	19.76	5.41
600.0	15.54	21.54	14.42	17.04	1.17	0.78	37.09	19.66	5.48
700.0	15.49	21.60	14.53	16.58	1.18	0.79	36.58	19.73	5.52
800.0	15.43	21.65	14.90	15.93	1.19	0.78	36.22	19.72	5.51
900.0	15.42	21.71	15.21	15.24	1.20	0.78	35.95	19.60	5.56
1000.0	15.40	21.74	15.55	14.73	1.20	0.78	35.38	19.68	5.51
1100.0	15.38	21.79	15.90	14.31	1.20	0.78	35.31	19.70	5.54
1200.0	15.35	21.87	16.27	13.91	1.21	0.77	34.99	19.60	5.60
1300.0	15.33	21.88	16.74	13.44	1.21	0.77	34.44	19.47	5.64
1400.0	15.31	21.98	17.32	13.11	1.22	0.77	34.43	19.49	5.66
1500.0	15.29	22.02	17.92	12.78	1.23	0.76	34.42	19.43	5.65
1600.0	15.28	22.06	18.53	12.45	1.23	0.76	34.40	19.46	5.65
1700.0	15.26	22.11	19.33	12.19	1.24	0.75	34.07	19.24	5.68
1800.0	15.25	22.20	20.25	11.93	1.25	0.75	33.59	19.21	5.65
1900.0	15.24	22.18	21.22	11.74	1.25	0.75	33.03	19.19	5.66
2000.0	15.23	22.26	22.47	11.60	1.25	0.75	32.71	19.06	5.67
2200.0	15.21	22.37	26.05	11.35	1.27	0.74	31.94	18.83	5.65
2400.0	15.22	22.42	31.57	11.28	1.28	0.74	31.16	18.63	5.67
2600.0	15.23	22.50	41.44	11.38	1.29	0.74	30.39	18.19	5.65
2800.0	15.26	22.56	35.05	11.60	1.30	0.74	29.78	18.05	5.72
3000.0	15.30	22.64	30.01	12.05	1.31	0.75	29.12	17.55	5.71
3200.0	15.32	22.60	26.36	12.61	1.31	0.76	28.34	17.14	5.72
3400.0	15.34	22.63	24.47	13.50	1.32	0.77	27.64	16.50	5.75
3600.0	15.38	22.62	23.15	14.42	1.32	0.78	26.97	16.06	5.67
3800.0	15.38	22.55	22.47	15.60	1.32	0.78	26.31	15.65	5.68
4000.0	15.36	22.57	22.72	16.64	1.33	0.80	25.53	15.08	5.68
4500.0	15.10	22.57	24.33	16.55	1.35	0.81	23.75	13.66	5.84
5000.0	14.67	22.47	25.00	13.57	1.36	0.80	22.50	12.67	5.73
5500.0	14.26	22.25	21.53	11.10	1.33	0.78	21.64	11.87	5.90
6000.0	13.44	22.07	17.66	10.64	1.38	0.81	20.84	11.09	6.03
6500.0	12.52	21.81	14.02	11.62	1.45	0.86	20.03	10.38	6.21
7000.0	11.44	21.66	11.44	12.33	1.57	0.92	19.68	9.87	6.31
7500.0	10.01	21.79	9.85	10.15	1.73	0.92	19.01	9.38	6.53
8000.0	8.26	22.19	8.90	7.46	1.93	0.86	18.26	8.72	6.81