

## 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 = 5.00V, Id = 128.89mA @ 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)
4000	14.62	54.42	30.09	8.98	42.65	0.87	24.01	10.54	4.11
4500	15.36	52.37	14.82	10.30	31.03	0.94	25.65	11.81	3.45
5000	15.70	51.36	13.11	11.28	26.68	0.97	26.11	12.89	3.06
5500	15.98	50.69	13.29	11.90	24.21	0.98	26.00	13.86	2.87
6000	16.25	50.29	13.96	12.17	22.67	0.98	25.99	14.50	2.72
6500	16.51	50.08	14.59	12.34	21.64	0.98	25.99	14.99	2.61
7000	16.76	49.89	15.15	12.53	20.72	0.97	25.94	15.41	2.57
7500	17.01	49.84	15.64	12.78	20.17	0.97	25.90	15.72	2.50
8000	17.24	49.72	16.15	13.10	19.50	0.98	25.94	15.82	2.42
8500	17.51	49.82	16.60	13.32	19.22	0.98	26.08	15.76	2.49
9000	17.75	49.75	17.17	13.48	18.62	0.97	26.03	15.89	2.55
9500	17.97	49.32	17.89	13.46	17.35	0.97	25.86	16.13	2.48
10000	18.17	48.74	18.95	13.16	15.87	0.96	25.88	16.22	2.47
10500	18.34	48.07	19.62	12.68	14.35	0.96	25.87	16.38	2.48
11000	18.47	47.43	17.51	12.19	12.99	0.95	25.98	16.50	2.56
12000	18.52	46.86	10.26	11.12	11.01	1.00	26.41	16.55	2.74
13000	18.31	45.30	6.75	12.02	8.32	1.13	26.82	16.40	2.92
14000	18.24	43.47	5.78	16.09	6.52	1.24	27.28	16.12	3.01
15000	18.65	41.40	6.64	25.26	5.38	1.21	27.85	15.54	2.90
16000	19.16	39.02	10.71	24.26	4.55	1.07	28.25	15.31	2.70
16500	19.12	38.11	14.53	17.65	4.28	1.00	28.14	15.03	2.67
17000	18.67	37.57	14.65	13.53	4.14	0.97	28.31	14.85	2.73
17500	17.85	37.32	11.53	11.29	4.15	0.97	28.08	14.67	2.77
18000	16.94	36.87	9.62	10.07	4.08	0.98	27.90	14.58	2.90
18500	16.03	36.34	8.64	9.35	4.00	1.00	27.94	14.62	3.06
19000	15.23	35.97	8.02	9.02	3.99	1.02	27.85	14.67	3.39
19500	14.67	35.66	7.64	8.99	3.98	1.04	28.09	14.50	3.53
20000	14.38	35.43	7.63	9.53	4.06	1.06	27.96	14.40	3.78
20500	14.25	35.15	7.93	10.07	4.12	1.06	27.37	14.37	4.07
21000	14.26	34.80	8.04	10.19	4.02	1.05	26.10	14.43	4.19
21500	14.06	34.65	7.33	9.58	3.92	1.05	26.09	14.86	4.38
22000	13.49	34.68	6.04	8.60	3.86	1.05	25.87	14.75	4.59
22500	12.63	34.87	4.90	7.85	3.90	1.07	25.73	14.94	4.77
23000	11.71	35.12	4.07	7.53	4.00	1.11	25.59	15.11	4.86
23500	10.87	35.22	3.60	7.74	4.15	1.16	25.63	15.02	5.04
24000	10.24	35.19	3.46	8.78	4.40	1.24	25.66	15.08	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 = 5.00V, Id = 128.08mA @ 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)
4000	15.96	54.17	27.66	8.80	35.24	0.87	24.15	10.34	3.17
4500	16.64	52.10	14.20	10.21	25.75	0.94	26.82	11.63	2.62
5000	16.95	50.94	12.71	11.18	21.85	0.97	28.21	12.63	2.29
5500	17.17	50.27	12.58	11.61	19.83	0.98	28.82	13.49	2.16
6000	17.41	49.85	13.11	11.73	18.55	0.98	28.74	14.08	2.00
6500	17.63	49.63	13.19	11.58	17.60	0.98	28.01	14.47	1.90
7000	17.89	49.52	13.68	11.72	16.99	0.97	27.82	14.84	1.89
7500	18.13	49.52	14.08	11.73	16.60	0.97	27.75	15.15	1.79
8000	18.38	49.59	14.56	11.97	16.40	0.97	27.73	15.32	1.75
8500	18.66	49.69	14.75	12.19	16.14	0.97	27.81	15.41	1.75
9000	18.93	49.84	15.20	12.67	16.07	0.98	27.75	15.48	1.84
9500	19.19	49.48	16.00	12.86	15.10	0.97	27.59	15.74	1.77
10000	19.41	49.00	17.09	12.78	13.99	0.97	27.68	15.85	1.72
10500	19.60	48.34	19.16	12.01	12.65	0.95	27.65	15.96	1.76
11000	19.75	47.70	20.21	11.19	11.46	0.93	27.84	16.10	1.77
12000	19.82	47.03	11.26	9.50	9.52	0.94	28.20	16.23	2.00
13000	19.59	45.48	6.60	10.19	7.03	1.10	28.39	16.34	2.21
14000	19.56	43.58	5.31	15.45	5.41	1.26	28.95	16.09	2.28
15000	20.11	41.35	6.09	38.12	4.39	1.24	29.39	15.87	2.09
16000	20.80	38.80	10.19	20.07	3.63	1.07	30.66	15.57	1.85
16500	20.74	37.95	12.35	15.04	3.39	1.00	31.31	15.26	1.89
17000	20.32	37.44	11.73	12.88	3.27	0.99	32.48	15.13	1.92
17500	19.59	37.03	10.19	11.13	3.21	0.98	31.81	14.90	1.94
18000	18.84	36.33	9.38	10.10	3.09	0.98	31.88	14.82	1.95
18500	17.99	35.63	8.84	9.21	2.99	0.97	31.16	14.81	2.07
19000	17.05	35.21	8.14	8.57	2.98	0.99	31.61	14.90	2.37
19500	16.28	35.01	7.42	8.23	2.99	1.01	31.92	14.72	2.49
20000	15.82	34.97	6.76	8.77	3.03	1.07	30.93	14.65	2.76
20500	15.65	34.82	6.77	9.40	3.08	1.09	29.78	14.50	3.15
21000	15.76	34.25	7.22	10.13	3.01	1.09	29.01	14.64	3.35
21500	15.78	33.99	7.22	9.67	2.96	1.06	28.07	14.99	3.56
22000	15.45	33.87	6.19	8.80	2.89	1.04	27.83	14.93	3.63
22500	14.74	33.89	5.01	7.97	2.85	1.05	27.37	15.11	3.70
23000	13.71	34.15	4.06	6.99	2.88	1.05	27.16	14.95	3.77
23500	12.76	34.40	3.48	6.56	2.95	1.07	27.29	15.03	3.87
24000	11.83	34.90	3.05	6.86	3.14	1.15	27.18	15.18	3.89

## 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 = 130.07mA @ 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)
4000	13.64	54.71	35.55	9.03	49.45	0.88	23.38	10.07	4.74
4500	14.45	52.61	15.70	10.31	35.67	0.93	25.89	11.36	4.04
5000	14.84	51.67	13.86	11.32	30.80	0.97	26.94	12.47	3.62
5500	15.15	51.10	14.12	11.99	28.22	0.97	26.92	13.44	3.43
6000	15.43	50.69	14.77	12.37	26.36	0.97	26.91	14.08	3.26
6500	15.71	50.44	15.63	12.71	25.07	0.97	26.82	14.58	3.13
7000	15.97	50.23	16.30	13.11	23.96	0.97	26.67	14.98	3.09
7500	16.23	50.09	17.10	13.66	23.11	0.98	26.63	15.28	3.03
8000	16.47	49.88	18.09	14.19	22.16	0.98	26.57	15.40	2.94
8500	16.72	49.81	18.92	14.33	21.43	0.98	26.72	15.36	2.99
9000	16.94	49.74	19.45	14.21	20.74	0.97	26.54	15.49	3.05
9500	17.14	49.17	19.44	13.90	18.93	0.97	26.35	15.71	3.02
10000	17.32	48.53	19.74	13.48	17.17	0.97	26.33	15.81	3.00
10500	17.47	47.82	18.77	13.00	15.44	0.96	26.40	15.98	3.08
11000	17.56	47.21	15.52	12.69	14.02	0.97	26.46	16.10	3.15
12000	17.55	46.69	9.46	12.36	12.04	1.04	27.03	16.20	3.36
13000	17.44	45.06	6.90	14.15	9.22	1.16	27.64	16.09	3.52
14000	17.45	43.20	6.31	17.75	7.27	1.22	28.12	15.95	3.58
15000	17.70	41.35	7.13	22.91	6.11	1.19	29.02	15.15	3.51
16000	18.00	39.18	10.48	31.37	5.26	1.08	29.45	14.91	3.41
16500	17.99	38.24	14.70	22.14	5.00	1.02	28.88	14.67	3.33
17000	17.62	37.62	18.18	15.71	4.85	0.98	29.05	14.49	3.36
17500	16.79	37.41	13.33	12.13	4.89	0.97	28.68	14.32	3.45
18000	15.76	37.20	10.10	10.25	4.91	0.98	28.66	14.21	3.55
18500	14.76	36.84	8.48	9.24	4.84	1.00	28.39	14.22	3.84
19000	13.93	36.61	7.63	8.90	4.86	1.03	28.47	14.22	4.25
19500	13.37	36.34	7.34	8.88	4.89	1.05	28.45	14.07	4.44
20000	13.19	35.98	7.40	9.43	4.88	1.06	28.18	14.00	4.67
20500	13.21	35.55	7.97	9.89	4.88	1.05	27.34	13.97	4.87
21000	13.22	35.18	8.24	9.97	4.79	1.03	25.96	14.35	4.94
21500	13.05	35.01	7.63	9.71	4.70	1.03	26.38	14.49	5.07
22000	12.53	35.02	6.66	9.04	4.72	1.04	26.12	14.46	5.20
22500	11.63	35.30	5.39	8.29	4.83	1.07	25.95	14.60	5.45
23000	10.58	35.63	4.43	7.69	5.02	1.10	26.09	14.82	5.68
23500	9.66	35.66	3.89	8.02	5.22	1.16	26.01	14.53	5.88
24000	8.98	35.64	3.60	9.06	5.45	1.24	25.93	14.52	5.94