

## 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 = 5.50V, Id = 136.54mA @ 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)
500.0	15.81	21.20	18.42	15.05	1.14	0.71	42.24	22.29	2.19
600.0	15.73	21.14	18.28	15.18	1.15	0.71	41.87	22.32	2.32
700.0	15.64	21.09	18.26	14.97	1.15	0.71	43.16	22.47	2.24
800.0	15.52	21.03	18.32	14.72	1.15	0.71	44.00	22.57	2.25
900.0	15.39	20.98	18.26	14.49	1.15	0.72	43.15	22.46	2.27
1000.0	15.26	20.89	18.22	14.31	1.15	0.72	44.46	22.86	2.41
1050.0	15.19	20.89	18.15	14.20	1.16	0.72	46.76	22.63	2.42
1100.0	15.12	20.83	18.05	14.08	1.15	0.72	44.94	22.78	2.46
1150.0	15.04	20.82	17.96	14.01	1.16	0.73	44.48	22.79	2.45
1200.0	14.97	20.78	17.80	13.94	1.16	0.73	44.82	22.75	2.36
1250.0	14.89	20.76	17.60	13.89	1.16	0.74	44.90	22.78	2.42
1300.0	14.81	20.74	17.37	13.86	1.16	0.74	43.53	22.73	2.51
1350.0	14.73	20.68	17.10	13.83	1.16	0.75	44.98	22.85	2.50
1400.0	14.65	20.66	16.75	13.84	1.16	0.75	46.26	22.93	2.50
1450.0	14.57	20.65	16.43	13.84	1.17	0.76	44.40	23.15	2.56
1500.0	14.49	20.56	16.10	13.87	1.16	0.76	46.60	23.08	2.59
1550.0	14.40	20.57	15.80	13.87	1.17	0.77	46.34	22.86	2.50
1600.0	14.32	20.54	15.42	13.88	1.17	0.78	47.36	23.12	2.66
1650.0	14.23	20.50	15.09	13.92	1.17	0.78	47.45	23.12	2.74
1700.0	14.15	20.42	14.68	14.00	1.17	0.79	47.91	23.03	2.77
1750.0	14.06	20.41	14.29	14.04	1.17	0.79	45.84	23.07	2.67
1800.0	13.98	20.38	13.86	14.19	1.17	0.80	45.63	23.18	2.72
1850.0	13.88	20.34	13.49	14.28	1.17	0.81	47.03	23.16	2.67
1900.0	13.80	20.33	13.07	14.37	1.18	0.82	44.39	23.18	2.72
1950.0	13.71	20.30	12.66	14.46	1.18	0.83	43.75	23.26	2.75
2000.0	13.63	20.22	12.26	14.55	1.17	0.83	46.62	23.29	2.78
2050.0	13.54	20.23	11.89	14.61	1.18	0.84	46.22	23.09	2.72
2100.0	13.45	20.19	11.53	14.72	1.17	0.85	44.82	23.21	2.59
2150.0	13.36	20.21	11.17	14.74	1.18	0.86	43.48	23.31	2.75
2200.0	13.27	20.10	10.78	14.89	1.17	0.87	44.68	23.36	2.77
2250.0	13.18	20.13	10.43	14.91	1.18	0.88	44.56	23.34	2.87
2300.0	13.09	20.07	10.05	15.04	1.18	0.88	45.91	23.28	2.91
2350.0	12.99	20.06	9.72	15.02	1.18	0.89	43.73	23.28	2.76
2400.0	12.90	20.07	9.36	15.08	1.18	0.90	45.21	23.23	2.90
2500.0	12.70	19.97	8.74	14.91	1.18	0.92	45.66	23.24	2.98
2600.0	12.50	19.98	8.14	14.60	1.18	0.93	44.29	23.33	3.18
2700.0	12.30	19.95	7.57	14.17	1.18	0.94	45.09	23.26	3.10
2800.0	12.09	19.90	7.02	13.60	1.18	0.95	43.68	23.19	3.21
2900.0	11.87	19.91	6.49	12.94	1.18	0.96	45.20	23.16	3.23
3000.0	11.65	19.92	5.98	12.19	1.18	0.97	44.95	23.07	3.25

## 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 = 5.50V, Id = 138.24mA @ 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)			(dBm)	(dBm)	(dB)
500.0	15.25	20.60	25.28	14.52	1.15	0.69	37.73	22.35	1.86
600.0	15.19	20.56	24.81	15.01	1.16	0.69	37.81	22.45	1.86
700.0	15.14	20.53	24.39	15.27	1.16	0.69	38.54	22.53	1.88
800.0	15.05	20.48	24.38	15.36	1.16	0.70	39.06	22.60	1.93
900.0	14.95	20.44	24.38	15.27	1.17	0.70	38.58	22.51	1.95
1000.0	14.85	20.44	24.17	15.24	1.17	0.71	40.36	22.83	1.99
1050.0	14.80	20.37	23.81	15.22	1.17	0.71	39.43	22.65	2.05
1100.0	14.75	20.34	23.41	15.19	1.17	0.71	40.97	22.76	2.10
1150.0	14.69	20.32	22.96	15.27	1.17	0.71	40.74	22.77	2.07
1200.0	14.63	20.31	22.61	15.24	1.17	0.72	40.26	22.76	2.00
1250.0	14.57	20.28	22.16	15.30	1.18	0.72	41.27	22.77	2.05
1300.0	14.51	20.25	21.65	15.27	1.18	0.72	40.03	22.72	2.11
1350.0	14.45	20.25	21.20	15.26	1.18	0.73	41.07	22.81	2.11
1400.0	14.38	20.22	20.56	15.26	1.18	0.73	41.42	22.90	2.12
1450.0	14.32	20.15	20.04	15.29	1.18	0.74	42.78	23.07	2.14
1500.0	14.25	20.16	19.42	15.34	1.18	0.74	41.50	23.03	2.18
1550.0	14.18	20.12	18.90	15.42	1.18	0.75	40.64	22.87	2.09
1600.0	14.12	20.11	18.26	15.56	1.19	0.76	42.64	23.09	2.25
1650.0	14.05	20.08	17.71	15.67	1.19	0.76	42.05	23.08	2.30
1700.0	13.98	20.04	17.15	15.84	1.19	0.77	40.93	23.01	2.33
1750.0	13.90	20.02	16.59	15.97	1.19	0.77	41.04	23.05	2.24
1800.0	13.83	19.99	16.02	16.19	1.19	0.78	42.62	23.12	2.31
1850.0	13.76	19.97	15.52	16.24	1.19	0.79	42.28	23.13	2.24
1900.0	13.68	19.95	15.01	16.42	1.19	0.80	42.55	23.11	2.31
1950.0	13.61	19.92	14.44	16.40	1.19	0.80	42.63	23.20	2.29
2000.0	13.54	19.87	13.98	16.52	1.19	0.81	43.60	23.23	2.34
2050.0	13.47	19.85	13.51	16.47	1.19	0.82	42.48	23.07	2.31
2100.0	13.39	19.82	13.05	16.67	1.19	0.82	44.28	23.17	2.32
2150.0	13.31	19.81	12.62	16.57	1.19	0.83	43.59	23.23	2.30
2200.0	13.24	19.80	12.12	16.78	1.19	0.84	43.38	23.29	2.34
2250.0	13.15	19.78	11.69	16.66	1.19	0.85	45.05	23.25	2.44
2300.0	13.07	19.72	11.20	16.79	1.19	0.85	46.37	23.20	2.43
2350.0	12.98	19.77	10.79	16.62	1.19	0.86	47.05	23.19	2.29
2400.0	12.90	19.72	10.35	16.57	1.19	0.87	46.47	23.18	2.43
2500.0	12.73	19.69	9.61	16.02	1.19	0.88	44.24	23.21	2.51
2600.0	12.56	19.68	8.91	15.30	1.19	0.89	46.61	23.24	2.61
2700.0	12.36	19.70	8.24	14.48	1.19	0.91	49.06	23.22	2.62
2800.0	12.15	19.68	7.59	13.58	1.19	0.91	46.93	23.18	2.78
2900.0	11.94	19.71	7.00	12.67	1.19	0.92	46.83	23.18	2.73
3000.0	11.73	19.75	6.50	11.78	1.19	0.92	45.39	23.17	2.71

## 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 = 5.50V, Id = 139.26mA @ 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)
500.0	16.09	21.57	15.66	14.80	1.14	0.72	46.35	22.13	2.51
600.0	16.00	21.52	15.53	14.69	1.14	0.72	45.79	22.15	2.55
700.0	15.88	21.46	15.62	14.29	1.14	0.72	49.28	22.33	2.61
800.0	15.74	21.39	15.63	13.92	1.14	0.73	47.21	22.43	2.57
900.0	15.59	21.30	15.54	13.57	1.14	0.73	46.63	22.32	2.60
1000.0	15.43	21.23	15.49	13.36	1.14	0.73	44.96	22.76	2.70
1050.0	15.35	21.23	15.47	13.24	1.15	0.74	47.60	22.51	2.76
1100.0	15.27	21.16	15.46	13.14	1.15	0.74	44.38	22.66	2.77
1150.0	15.18	21.11	15.40	13.05	1.15	0.74	43.68	22.70	2.78
1200.0	15.10	21.08	15.36	12.93	1.15	0.75	44.99	22.64	2.72
1250.0	15.01	21.02	15.25	12.88	1.15	0.75	43.41	22.69	2.81
1300.0	14.92	20.98	15.10	12.82	1.15	0.75	43.93	22.63	2.84
1350.0	14.83	20.98	14.95	12.77	1.15	0.76	42.88	22.76	2.85
1400.0	14.74	20.93	14.69	12.76	1.15	0.77	42.89	22.83	2.88
1450.0	14.65	20.90	14.51	12.77	1.15	0.77	43.14	23.05	2.93
1500.0	14.56	20.87	14.28	12.78	1.16	0.78	44.11	22.99	2.94
1550.0	14.46	20.79	14.07	12.77	1.15	0.78	46.39	22.74	2.89
1600.0	14.37	20.79	13.81	12.79	1.16	0.79	43.83	23.00	3.01
1650.0	14.27	20.69	13.54	12.78	1.15	0.79	44.50	23.01	3.07
1700.0	14.18	20.67	13.25	12.84	1.16	0.80	44.84	22.91	3.14
1750.0	14.08	20.65	12.93	12.86	1.16	0.81	46.52	22.96	3.02
1800.0	13.98	20.59	12.58	13.01	1.16	0.82	43.75	23.05	3.13
1850.0	13.89	20.56	12.26	13.03	1.16	0.82	43.18	23.04	3.06
1900.0	13.80	20.51	11.94	13.21	1.16	0.83	44.31	23.02	3.12
1950.0	13.70	20.46	11.56	13.25	1.16	0.84	43.33	23.12	3.11
2000.0	13.60	20.44	11.26	13.40	1.16	0.85	43.32	23.12	3.19
2050.0	13.51	20.45	10.95	13.41	1.17	0.86	44.06	22.94	3.15
2100.0	13.41	20.37	10.64	13.59	1.16	0.87	43.84	23.05	3.18
2150.0	13.31	20.37	10.35	13.53	1.17	0.88	43.37	23.13	3.18
2200.0	13.22	20.29	10.01	13.73	1.16	0.88	42.95	23.15	3.21
2250.0	13.12	20.29	9.71	13.75	1.17	0.89	42.51	23.12	3.29
2300.0	13.03	20.24	9.39	13.97	1.17	0.90	41.83	23.07	3.28
2350.0	12.92	20.24	9.12	13.98	1.17	0.91	41.81	23.05	3.19
2400.0	12.82	20.19	8.83	14.16	1.17	0.92	42.68	22.99	3.34
2500.0	12.62	20.14	8.27	14.18	1.17	0.94	42.81	23.02	3.41
2600.0	12.42	20.11	7.73	14.13	1.17	0.95	42.07	23.11	3.57
2700.0	12.21	20.06	7.21	13.93	1.17	0.97	41.60	23.03	3.58
2800.0	11.99	20.00	6.72	13.57	1.17	0.98	41.31	22.96	3.74
2900.0	11.78	19.98	6.24	13.18	1.17	0.99	42.47	22.92	3.76
3000.0	11.55	19.97	5.77	12.59	1.17	1.00	42.38	22.83	3.77