

## 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, Rbias=2.74K ohms, Id=40 mA @ Temperature =25degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	Noise Figure	FREQ	1dB Comp. Output (1)	
					K	Measure				Current Limit 50mA	Current Limit 60mA
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dB)	(MHz)	(dBm)	
50.0	23.26	33.42	13.89	9.03	1.58	0.77	28.84	2.58	50.0	14.90	16.04
100.0	24.51	30.49	12.02	12.15	1.16	0.71	28.52	1.28	100.0	18.20	19.15
200.0	24.77	29.46	10.32	15.72	1.04	0.73	29.84	0.74	200.0	19.33	20.89
300.0	24.31	28.94	9.09	17.38	1.00	0.79	30.19	0.70	300.0	19.05	20.84
500.0	22.91	28.06	7.44	19.05	0.97	0.91	30.21	0.67	500.0	18.79	20.59
600.0	22.16	27.63	6.91	19.64	0.96	0.96	30.93	0.69	600.0	18.47	20.28
800.0	20.68	26.81	6.25	20.28	0.96	1.03	31.54	0.71	800.0	18.98	20.69
1000.0	19.34	26.05	5.90	20.67	0.98	1.07	31.25	0.74	1000.0	19.18	20.79
1200.0	18.14	25.32	5.71	20.93	1.00	1.11	31.86	0.81	1200.0	18.99	20.66
1400.0	17.08	24.56	5.63	21.06	1.02	1.12	31.58	0.88	1400.0	19.08	20.65
1600.0	16.13	23.84	5.63	21.15	1.04	1.13	31.82	0.94	1600.0	18.95	20.56
1700.0	15.70	23.49	5.65	21.07	1.05	1.13	31.70	0.95	1700.0	18.87	20.52
1900.0	14.90	22.76	5.73	20.89	1.06	1.13	32.04	0.89	1900.0	18.56	20.22
2100.0	14.19	22.08	5.91	20.53	1.07	1.12	32.24	0.95	2100.0	18.14	19.88
2300.0	13.57	21.41	6.06	19.99	1.07	1.11	32.26	1.04	2300.0	18.11	19.84
2500.0	13.00	20.79	6.28	19.48	1.08	1.10	32.16	1.10	2600.0	18.31	20.00
2700.0	12.49	20.16	6.52	18.99	1.08	1.08	32.22	1.25	2800.0	17.99	19.74
2900.0	12.01	19.55	6.84	18.52	1.09	1.06	32.05	1.29	2900.0	18.25	19.92
3000.0	11.72	19.32	6.92	18.69	1.10	1.06	31.84	1.23	2900.0	18.25	19.92
3200.0	11.39	18.72	7.02	18.40	1.08	1.04	31.68	1.18	4100.0	19.19	20.76
3400.0	11.03	18.18	7.12	18.48	1.07	1.03	31.89	1.25	4300.0	19.36	20.88
3600.0	10.71	17.73	7.18	18.95	1.07	1.02	31.98	1.34	4500.0	19.39	21.00
3800.0	10.43	17.36	7.08	19.95	1.07	1.02	32.59	1.24	4700.0	19.28	20.89
4000.0	10.16	17.06	6.89	21.52	1.06	1.02	32.81	1.49	5000.0	19.83	21.40
4100.0	10.02	16.95	6.86	22.88	1.07	1.02	33.17	1.43	5200.0	19.84	21.37
4300.0	9.29	16.81	7.75	25.35	1.18	1.00	33.68	1.76	5300.0	19.85	21.39
4500.0	8.84	16.78	5.89	27.90	1.13	1.09	33.59	1.92	5400.0	19.88	21.38
4700.0	8.71	16.61	5.28	25.52	1.09	1.11	32.84	1.75	5400.0	19.88	21.38
4900.0	8.34	16.46	4.89	21.79	1.09	1.13	33.06	1.79	5600.0	20.16	21.68
5100.0	7.94	16.33	4.56	19.26	1.09	1.14	33.54	1.86	5800.0	20.01	21.53
5300.0	7.51	16.17	4.21	17.08	1.09	1.15	34.17	2.18	6000.0	20.14	21.65
5400.0	7.30	16.11	4.06	16.05	1.09	1.16	33.89	2.01	6200.0	20.10	21.59
5600.0	6.86	16.01	3.78	14.67	1.10	1.17	34.37	2.18	6500.0	19.97	21.44
5800.0	6.45	15.88	3.51	13.40	1.09	1.17	34.99	2.34	6700.0	19.82	21.26
6000.0	6.04	15.73	3.28	12.37	1.09	1.17	34.84	2.52	6900.0	19.66	21.19
6200.0	5.64	15.60	3.07	11.50	1.08	1.17	34.73	2.62	7000.0	19.67	21.10
6400.0	5.23	15.49	2.90	10.69	1.08	1.17	34.68	2.70			
6600.0	4.86	15.40	2.75	10.09	1.08	1.16	34.24	2.88			
6800.0	4.48	15.27	2.59	9.47	1.07	1.16	34.36	3.19			
7000.0	4.10	15.24	2.46	8.89	1.07	1.15	34.64	3.52			

(1) Current is externally limited during P1dB measurements. Unit is capable of higher output power if current is not limited.

## 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, Rbias=2.74K ohms, Id=47 mA @ Temperature = -45degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	Noise Figure
					K	Measure		
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dB)
50.0	23.97	31.71	15.00	10.01	1.32	0.72	29.95	2.09
100.0	24.99	30.40	14.57	13.67	1.14	0.69	29.77	1.03
200.0	25.11	29.57	12.41	18.31	1.05	0.71	31.09	0.62
300.0	24.65	29.14	10.58	20.60	1.03	0.75	31.43	0.55
500.0	23.29	28.50	8.27	22.19	1.02	0.87	31.57	0.55
600.0	22.56	28.01	7.57	22.69	1.01	0.91	32.27	0.55
800.0	21.12	27.22	6.72	23.03	1.02	0.98	32.77	0.56
1000.0	19.80	26.39	6.25	23.08	1.03	1.03	32.50	0.58
1200.0	18.61	25.54	6.00	23.45	1.04	1.06	33.02	0.65
1400.0	17.56	24.69	5.86	23.71	1.04	1.07	32.87	0.68
1600.0	16.61	23.90	5.84	24.03	1.05	1.08	33.10	0.75
1700.0	16.18	23.53	5.84	24.28	1.06	1.09	33.02	0.72
1900.0	15.40	22.75	5.91	24.37	1.06	1.08	33.38	0.69
2100.0	14.70	22.02	6.11	23.96	1.07	1.08	33.45	0.72
2300.0	14.07	21.32	6.25	23.62	1.07	1.07	33.58	0.81
2500.0	13.50	20.61	6.45	22.83	1.06	1.05	33.44	0.82
2700.0	13.00	19.94	6.76	22.04	1.06	1.03	33.44	0.92
2900.0	12.53	19.31	7.10	20.93	1.06	1.01	33.29	1.03
3000.0	12.20	19.13	7.30	21.10	1.08	1.01	33.07	0.92
3200.0	11.92	18.45	7.25	20.82	1.05	0.99	33.06	0.87
3400.0	11.56	17.92	7.44	20.27	1.04	0.98	33.10	0.92
3600.0	11.23	17.45	7.44	20.99	1.04	0.97	33.24	1.02
3800.0	10.96	17.09	7.33	22.39	1.04	0.97	33.58	1.04
4000.0	10.69	16.76	7.11	24.25	1.03	0.97	33.88	1.08
4100.0	10.55	16.66	7.00	25.98	1.04	0.97	34.06	1.12
4300.0	10.03	16.46	7.68	27.97	1.10	0.95	34.37	1.25
4500.0	9.30	16.51	6.00	24.91	1.09	1.04	34.44	1.51
4700.0	9.22	16.32	5.33	21.98	1.05	1.06	33.93	1.40
4900.0	8.86	16.16	4.90	18.75	1.05	1.07	34.07	1.46
5100.0	8.43	16.03	4.52	16.80	1.05	1.08	34.56	1.40
5300.0	8.00	15.91	4.20	15.23	1.05	1.09	34.98	1.58
5400.0	7.80	15.81	4.03	14.31	1.05	1.09	34.85	1.61
5600.0	7.36	15.69	3.74	13.21	1.05	1.10	35.18	1.70
5800.0	6.94	15.58	3.45	12.13	1.05	1.10	35.52	1.78
6000.0	6.53	15.44	3.22	11.24	1.04	1.10	35.27	1.95
6200.0	6.15	15.30	3.04	10.64	1.04	1.10	35.15	2.02
6400.0	5.74	15.19	2.84	9.85	1.03	1.10	35.06	2.25
6600.0	5.38	15.09	2.68	9.34	1.03	1.09	34.70	2.39
6800.0	5.03	14.97	2.53	8.84	1.03	1.09	35.18	2.32
7000.0	4.65	14.87	2.38	8.28	1.02	1.07	35.08	2.82

## 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, Rbias=2.74K ohms, Id=34 mA @ Temperature = +85degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	Noise Figure
					K	Measure		
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dB)
50.0	22.42	33.47	13.01	7.81	1.64	0.75	27.47	3.08
100.0	23.86	30.55	10.25	10.16	1.18	0.71	27.16	1.54
200.0	24.27	29.23	8.71	12.68	1.02	0.74	28.51	0.92
300.0	23.83	28.52	7.85	13.82	0.96	0.80	28.86	0.87
500.0	22.42	27.58	6.64	15.24	0.91	0.93	28.76	0.81
600.0	21.67	27.15	6.30	15.88	0.90	0.98	29.50	0.84
800.0	20.19	26.35	5.81	16.70	0.91	1.06	30.20	0.86
1000.0	18.84	25.63	5.54	17.31	0.93	1.11	29.88	0.91
1200.0	17.64	24.93	5.43	17.64	0.96	1.14	30.42	0.99
1400.0	16.58	24.27	5.37	17.82	0.98	1.16	30.09	1.08
1600.0	15.64	23.68	5.41	18.00	1.02	1.16	30.33	1.18
1700.0	15.21	23.35	5.43	17.99	1.02	1.17	30.15	1.15
1900.0	14.41	22.76	5.52	17.94	1.05	1.16	30.65	1.20
2100.0	13.71	22.13	5.68	17.64	1.07	1.16	30.76	1.21
2300.0	13.08	21.50	5.85	17.40	1.08	1.15	30.79	1.26
2500.0	12.51	20.88	6.08	17.03	1.09	1.13	30.75	1.37
2700.0	11.99	20.31	6.26	16.82	1.10	1.12	30.87	1.49
2900.0	11.50	19.72	6.56	16.58	1.11	1.10	30.66	1.56
3000.0	11.23	19.50	6.63	16.63	1.12	1.09	30.39	1.53
3200.0	10.89	18.93	6.68	16.62	1.10	1.09	30.24	1.55
3400.0	10.52	18.41	6.77	17.04	1.10	1.08	30.52	1.64
3600.0	10.19	17.99	6.83	17.33	1.10	1.07	30.64	1.72
3800.0	9.91	17.61	6.78	18.11	1.09	1.07	31.41	1.76
4000.0	9.62	17.33	6.65	19.52	1.10	1.07	31.58	1.86
4100.0	9.47	17.21	6.58	20.62	1.11	1.08	31.94	1.91
4300.0	8.78	17.10	7.40	22.92	1.22	1.05	32.41	2.23
4500.0	8.32	17.09	5.90	26.88	1.19	1.13	32.46	2.34
4700.0	8.20	16.93	5.29	28.53	1.15	1.16	31.53	2.20
4900.0	7.86	16.75	4.91	25.69	1.14	1.18	31.69	2.28
5100.0	7.47	16.58	4.59	22.29	1.14	1.19	32.19	2.28
5300.0	7.06	16.47	4.27	19.49	1.14	1.20	32.86	2.28
5400.0	6.84	16.41	4.08	18.17	1.14	1.21	32.64	2.52
5600.0	6.42	16.28	3.78	16.31	1.14	1.22	33.34	2.71
5800.0	6.02	16.11	3.55	14.74	1.13	1.22	33.79	2.91
6000.0	5.60	16.01	3.31	13.52	1.13	1.23	33.99	3.04
6200.0	5.16	15.90	3.06	12.35	1.12	1.23	33.90	3.26
6400.0	4.77	15.80	2.91	11.66	1.12	1.23	33.76	3.58
6600.0	4.37	15.73	2.77	10.84	1.13	1.23	33.29	3.67
6800.0	3.93	15.65	2.60	10.02	1.13	1.22	33.36	3.87
7000.0	3.55	15.59	2.50	9.45	1.13	1.21	35.44	4.14