

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions or to view GRAPHS.**

**Definitions:**

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Icc = 35mA, Vd = 3.61V @Temperature = +25degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		FREQ	IP3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(MHz)	(dBm)	(dBm)	(dB)
50	23.52	25.53	27.58	25.99	1.03	0.80	50	25.58	12.32	2.26
100	23.46	25.90	30.96	24.44	1.04	0.76	100	25.47	11.61	2.12
200	23.42	25.71	29.78	24.12	1.03	0.77	200	25.49	11.61	2.38
400	23.21	25.59	29.41	22.98	1.04	0.76	400	25.38	11.60	2.42
600	22.88	25.37	29.77	21.35	1.04	0.75	600	25.08	11.51	2.38
800	22.55	25.23	28.96	20.32	1.04	0.74	800	25.27	11.13	2.27
1000	22.20	25.00	28.91	19.78	1.05	0.73	1000	25.03	10.95	2.28
1200	21.88	24.79	28.95	19.48	1.05	0.72	1200	25.10	10.89	2.36
1400	21.48	24.52	31.40	18.95	1.06	0.71	1400	25.06	11.10	2.32
1600	21.11	24.29	33.95	18.73	1.06	0.70	1600	25.54	10.95	2.25
1800	20.71	24.00	38.16	18.64	1.06	0.69	1800	26.03	11.39	2.36
2000	20.34	23.71	41.70	18.98	1.07	0.68	2000	25.86	11.10	2.28
2200	19.92	23.44	36.81	19.16	1.07	0.67	2200	25.80	10.60	2.39
2400	19.56	23.15	33.74	19.95	1.08	0.66	2400	25.78	10.75	2.41
2600	19.14	22.85	28.84	20.30	1.08	0.65	2600	25.89	11.40	2.43
2800	18.75	22.59	27.06	21.24	1.09	0.64	2800	26.12	11.62	2.37
3000	18.39	22.25	24.26	21.82	1.09	0.64	3000	26.34	11.41	2.43
3200	18.01	22.01	23.05	22.62	1.09	0.63	3200	26.27	11.62	2.48
3500	17.52	21.62	21.43	24.43	1.10	0.62	3400	26.29	11.69	2.46
4000	16.61	20.89	21.29	26.58	1.11	0.61	3600	26.06	11.80	2.43
4500	15.81	20.30	21.56	25.48	1.13	0.59	3800	25.94	11.98	2.54
5000	15.06	19.74	23.58	22.76	1.14	0.58	4000	26.00	12.19	2.60
5500	14.35	19.24	24.22	19.27	1.15	0.57	4200	25.75	12.19	2.61
6000	13.71	18.78	21.61	17.06	1.16	0.57	4400	25.89	12.10	2.73
6500	13.17	18.38	18.15	15.37	1.17	0.57	4800	25.31	11.97	2.78
7000	12.66	17.97	15.29	14.06	1.16	0.58	5000	25.26	11.57	2.69
7500	12.16	17.66	13.29	13.15	1.17	0.58	5200	25.14	11.27	2.70
8000	11.53	17.26	11.16	11.66	1.16	0.59	5600	25.09	11.20	2.77
9000	9.96	16.85	7.83	9.25	1.18	0.59	5800	24.62	11.13	2.99
10000	7.84	16.59	5.99	7.53	1.23	0.57	6000	24.48	10.87	3.00
11000	5.87	16.11	5.12	6.70	1.27	0.55	6200	24.21	11.45	2.90
12000	4.09	15.73	4.59	6.37	1.32	0.52	6600	23.55	10.93	3.09
13000	2.46	15.85	3.73	5.37	1.29	0.51	6800	23.32	10.83	3.01
14000	0.85	16.87	3.09	4.62	1.32	0.50	7000	23.44	10.73	3.07
15000	0.08	16.99	3.09	4.56	1.30	0.46	7200	22.95	10.59	3.05
16000	0.44	16.06	4.17	5.99	1.42	0.32	8000	22.02	9.31	3.36
17000	1.41	14.05	6.60	8.80	1.45	0.17				
18000	2.17	12.38	8.81	12.89	1.43	0.25				
19000	1.83	12.96	5.58	11.99	1.41	0.35				
20000	-0.65	20.01	3.66	7.37	2.76	0.35				

## 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: Icc = 28mA, Vd = 3.58V @Temperature = +25degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		FREQ	IP3 Output	1dB Comp. Output	Noise Figure
					K	Delta				
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(MHz)	(dBm)	(dBm)	(dB)
50	22.81	25.01	29.29	35.32	1.03	0.78	50	22.27	8.95	2.24
100	22.85	24.99	28.47	40.29	1.03	0.78	100	22.16	8.23	2.11
200	22.76	25.09	28.96	36.14	1.04	0.76	200	22.15	8.87	2.41
400	22.53	24.95	29.94	31.18	1.04	0.76	400	22.03	8.82	2.41
600	22.31	24.80	32.49	28.18	1.04	0.75	600	21.80	8.45	2.38
800	21.96	24.61	33.07	26.44	1.04	0.74	800	21.95	8.25	2.28
1000	21.71	24.51	32.04	24.36	1.05	0.72	1000	21.69	8.28	2.30
1200	21.34	24.26	30.78	23.63	1.05	0.71	1200	21.76	8.17	2.33
1400	21.04	24.05	31.70	22.95	1.05	0.71	1400	21.79	7.99	2.30
1600	20.62	23.75	30.21	22.18	1.06	0.70	1600	22.22	8.24	2.26
1800	20.32	23.57	28.84	21.48	1.06	0.68	1800	22.78	8.63	2.31
2000	19.93	23.31	26.46	21.33	1.07	0.67	2000	22.54	8.35	2.29
2200	19.58	23.07	25.21	21.57	1.07	0.67	2200	22.54	7.40	2.37
2400	19.18	22.77	23.05	22.01	1.07	0.66	2400	22.74	7.59	2.35
2600	18.82	22.52	22.67	22.40	1.08	0.65	2600	23.14	8.62	2.39
2800	18.44	22.24	20.76	23.09	1.08	0.64	2800	23.62	9.01	2.33
3000	18.12	22.02	20.39	23.60	1.09	0.63	3000	23.94	8.81	2.43
3200	17.76	21.77	19.46	24.45	1.09	0.62	3200	23.85	8.86	2.47
3500	17.24	21.34	18.46	26.12	1.09	0.62	3400	24.16	9.02	2.44
4000	16.41	20.77	18.31	29.03	1.11	0.60	3600	24.20	9.18	2.40
4500	15.60	20.11	18.67	28.58	1.12	0.59	3800	24.37	9.32	2.47
5000	14.89	19.66	19.95	25.00	1.14	0.58	4000	24.60	9.83	2.57
5500	14.17	19.14	20.85	20.52	1.16	0.57	4200	24.32	9.94	2.52
6000	13.53	18.73	19.69	18.06	1.17	0.56	4400	24.46	10.05	2.69
6500	13.00	18.34	16.89	16.14	1.17	0.56	4800	24.29	10.26	2.74
7000	12.47	17.98	14.55	14.75	1.18	0.56	5000	24.44	9.83	2.63
7500	11.99	17.69	12.73	13.79	1.18	0.56	5200	24.40	9.45	2.66
8000	11.32	17.35	10.68	12.15	1.18	0.57	5600	24.28	10.08	2.67
9000	9.77	16.92	7.60	9.71	1.19	0.57	5800	23.92	10.28	2.90
10000	7.66	16.76	5.88	8.01	1.26	0.55	6000	23.99	9.88	2.90
11000	5.69	16.27	5.05	7.16	1.31	0.53	6200	23.65	10.37	2.83
12000	3.95	15.87	4.52	6.77	1.35	0.50	6600	23.04	10.11	2.96
13000	2.28	15.98	3.71	5.75	1.32	0.49	6800	23.15	10.07	2.93
14000	0.71	16.90	3.09	4.92	1.35	0.48	7000	23.39	10.07	2.96
15000	-0.16	17.07	3.10	4.86	1.34	0.43	7200	22.79	9.94	2.96
16000	0.10	16.20	4.08	6.14	1.45	0.30	8000	21.89	8.74	3.17
17000	0.99	14.33	6.35	8.62	1.51	0.13				
18000	1.85	12.59	8.49	12.38	1.46	0.22				
19000	1.51	13.12	5.40	12.41	1.44	0.32				
20000	-0.93	19.95	3.65	7.76	2.84	0.34				

## 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: Icc = 42mA, Vd = 3.62V @Temperature = +25degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		FREQ	IP3 Output	1dB Comp. Output	Noise Figure
					K	Delta				
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(MHz)	(dBm)	(dBm)	(dB)
50	23.90	26.00	22.28	20.23	1.03	0.79	50	28.29	14.18	2.30
100	23.91	26.12	22.92	20.05	1.03	0.78	100	28.19	13.72	2.15
200	23.81	26.17	22.79	19.63	1.03	0.77	200	28.20	13.68	2.40
400	23.56	26.03	23.10	18.85	1.04	0.76	400	27.94	13.67	2.45
600	23.26	25.83	22.86	18.18	1.04	0.75	600	27.52	13.70	2.42
800	22.89	25.58	22.77	17.77	1.04	0.74	800	27.60	13.32	2.33
1000	22.55	25.38	22.83	17.49	1.05	0.73	1000	27.32	13.06	2.30
1200	22.15	25.10	23.58	17.20	1.05	0.72	1200	27.29	12.95	2.38
1400	21.78	24.86	24.68	16.94	1.05	0.71	1400	27.13	13.16	2.34
1600	21.35	24.58	25.73	17.02	1.06	0.70	1600	27.56	13.03	2.28
1800	20.96	24.30	27.20	17.11	1.06	0.69	1800	27.67	13.40	2.37
2000	20.57	23.99	29.40	17.40	1.07	0.68	2000	27.58	13.32	2.32
2200	20.15	23.71	33.67	17.82	1.07	0.67	2200	27.40	12.88	2.42
2400	19.75	23.30	47.29	18.31	1.07	0.67	2400	27.12	12.84	2.43
2600	19.34	23.06	44.21	18.97	1.08	0.65	2600	26.85	13.18	2.44
2800	18.93	22.75	33.45	19.72	1.09	0.64	2800	26.73	13.17	2.41
3000	18.58	22.45	29.64	20.49	1.09	0.64	3000	26.80	13.22	2.48
3200	18.20	22.16	26.58	21.09	1.09	0.63	3200	26.65	13.35	2.52
3500	17.67	21.76	23.99	22.73	1.10	0.62	3400	26.61	13.33	2.49
4000	16.77	21.03	23.53	24.64	1.11	0.61	3600	26.23	13.19	2.48
4500	15.94	20.42	24.02	23.75	1.13	0.59	3800	25.98	13.26	2.59
5000	15.19	19.83	26.64	21.51	1.14	0.59	4000	25.89	13.39	2.66
5500	14.46	19.29	27.34	18.54	1.15	0.58	4200	25.72	13.19	2.64
6000	13.82	18.79	22.86	16.51	1.15	0.57	4400	25.85	13.12	2.74
6500	13.28	18.38	18.78	14.89	1.16	0.58	4800	25.17	12.65	2.82
7000	12.79	17.96	15.85	13.68	1.15	0.58	5000	24.96	12.30	2.77
7500	12.31	17.63	13.76	12.75	1.15	0.59	5200	24.87	12.23	2.80
8000	11.66	17.20	11.48	11.32	1.15	0.60	5600	24.87	11.68	2.83
9000	10.10	16.70	8.05	8.92	1.16	0.61	5800	24.35	11.49	3.06
10000	8.00	16.50	6.09	7.18	1.21	0.59	6000	24.11	11.37	3.05
11000	6.01	16.01	5.20	6.38	1.25	0.57	6200	23.84	11.93	3.05
12000	4.21	15.62	4.62	6.04	1.29	0.54	6600	23.48	11.35	3.15
13000	2.52	15.78	3.76	5.05	1.26	0.53	6800	23.16	11.21	3.10
14000	0.98	16.83	3.10	4.38	1.30	0.52	7000	23.32	11.11	3.17
15000	0.22	16.95	3.10	4.32	1.27	0.48	7200	22.81	10.91	3.14
16000	0.69	15.94	4.19	5.76	1.37	0.35	8000	22.04	9.68	3.43
17000	1.68	13.88	6.78	8.88	1.42	0.19				
18000	2.45	12.18	9.08	13.15	1.39	0.28				
19000	2.04	12.88	5.71	11.51	1.39	0.37				
20000	-0.42	20.08	3.69	6.97	2.69	0.37				

## 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: Icc = 35mA, Vd = 3.78V @Temperature = -45degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		FREQ	IP3 Output	1dB Comp. Output	Noise Figure
					K	Delta				
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(MHz)	(dBm)	(dBm)	(dB)
50	23.82	26.38	24.06	22.34	1.04	0.75	50	25.84	12.27	1.83
100	23.81	25.97	27.03	21.87	1.03	0.78	100	25.70	11.80	1.71
200	23.71	26.02	28.19	22.78	1.03	0.77	200	25.72	11.67	1.95
400	23.53	25.80	24.23	20.18	1.03	0.78	400	25.69	11.77	1.97
600	23.23	25.65	24.32	19.21	1.04	0.76	600	25.53	11.58	1.94
800	22.91	25.38	23.88	18.42	1.04	0.76	800	25.77	11.40	1.84
1000	22.56	25.25	24.82	18.10	1.04	0.74	1000	25.54	11.25	1.81
1200	22.21	24.97	24.21	17.80	1.04	0.74	1200	25.62	11.13	1.86
1400	21.86	24.74	25.01	17.60	1.05	0.72	1400	25.66	11.24	1.80
1600	21.46	24.41	26.55	17.64	1.05	0.72	1600	26.18	11.10	1.75
1800	21.08	24.16	29.07	17.74	1.06	0.71	1800	26.69	11.59	1.85
2000	20.69	23.88	31.68	18.11	1.06	0.70	2000	26.54	11.33	1.79
2200	20.28	23.58	34.98	18.19	1.06	0.69	2200	26.50	10.94	1.88
2400	19.97	23.24	43.90	18.91	1.06	0.69	2400	26.51	10.85	1.86
2600	19.48	23.02	44.61	19.60	1.08	0.66	2600	26.72	11.53	1.88
2800	19.18	22.65	35.06	20.46	1.07	0.67	2800	26.97	11.80	1.85
3000	18.80	22.34	29.19	21.21	1.08	0.66	3000	27.35	11.52	1.92
3200	18.46	22.07	26.24	22.45	1.08	0.66	3200	27.24	11.83	1.95
3500	17.92	21.63	24.56	23.47	1.08	0.65	3400	27.36	11.84	1.91
4000	17.00	21.00	24.26	24.10	1.10	0.63	3600	27.23	11.97	1.88
4500	16.21	20.29	23.72	24.32	1.10	0.62	3800	27.13	11.99	1.96
5000	15.57	19.72	25.42	23.24	1.11	0.62	4000	27.23	12.39	1.99
5500	14.82	19.14	29.26	20.26	1.12	0.61	4200	27.04	12.44	2.01
6000	14.18	18.75	24.87	17.56	1.13	0.60	4400	27.19	12.41	2.09
6500	13.72	18.28	18.71	15.55	1.13	0.61	4800	26.63	12.54	2.16
7000	13.18	17.89	14.72	13.28	1.12	0.62	5000	26.50	12.25	2.04
7500	12.71	17.58	12.92	12.33	1.12	0.62	5200	26.56	12.05	2.12
8000	12.18	17.09	11.29	11.09	1.11	0.64	5600	26.57	12.06	2.18
9000	10.80	16.48	8.67	9.68	1.12	0.64	5800	25.94	12.07	2.44
10000	8.66	16.40	5.89	7.19	1.16	0.63	6000	25.75	11.99	2.44
11000	6.48	16.15	4.71	5.89	1.19	0.61	6200	25.48	12.32	2.39
12000	4.99	15.29	4.46	6.08	1.19	0.58	6600	24.91	11.85	2.51
13000	3.53	15.27	4.01	5.43	1.17	0.54	6800	24.64	11.74	2.45
14000	1.53	17.02	2.70	3.95	1.17	0.58	7000	24.63	11.68	2.49
15000	0.42	17.21	2.68	3.72	1.11	0.54	7200	24.04	11.45	2.43
16000	1.20	16.21	3.74	5.60	1.23	0.37	8000	23.13	10.29	2.72
17000	2.58	13.70	6.33	9.76	1.26	0.20				
18000	3.36	11.99	9.00	13.05	1.25	0.32				
19000	3.07	12.25	5.79	11.26	1.20	0.42				
20000	0.68	19.11	2.74	6.96	1.86	0.42				

## 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: Icc = 28mA, Vd = 3.76V @Temperature = -45degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		FREQ	IP3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(MHz)	(dBm)	(dBm)	(dB)
50	23.25	25.30	39.58	33.00	1.03	0.79	50	22.18	9.16	1.80
100	23.19	25.46	36.32	33.49	1.03	0.77	100	22.04	8.74	1.70
200	23.11	25.38	33.73	33.26	1.03	0.77	200	22.03	8.73	1.94
400	22.98	25.19	42.15	26.66	1.03	0.78	400	22.01	9.01	1.98
600	22.68	25.13	40.23	25.25	1.04	0.75	600	21.86	8.57	1.92
800	22.42	24.96	35.77	23.36	1.04	0.75	800	22.07	8.19	1.80
1000	22.08	24.71	39.64	22.09	1.04	0.74	1000	21.79	8.15	1.81
1200	21.80	24.45	36.95	20.93	1.04	0.74	1200	21.88	8.48	1.84
1400	21.46	24.26	38.93	20.96	1.05	0.73	1400	21.98	8.13	1.80
1600	21.08	24.06	36.33	20.70	1.05	0.71	1600	22.45	8.49	1.76
1800	20.70	23.79	35.10	20.68	1.06	0.70	1800	22.99	8.56	1.84
2000	20.33	23.53	34.18	20.45	1.06	0.69	2000	22.76	8.21	1.77
2200	19.98	23.27	30.96	20.63	1.06	0.68	2200	22.77	7.65	1.87
2400	19.65	22.88	28.75	20.92	1.06	0.69	2400	22.99	7.59	1.86
2600	19.20	22.77	27.23	22.05	1.08	0.66	2600	23.45	8.60	1.85
2800	18.92	22.38	25.03	22.37	1.07	0.67	2800	23.87	8.86	1.84
3000	18.55	22.14	23.04	23.42	1.08	0.66	3000	24.33	8.66	1.91
3200	18.21	21.83	21.35	25.09	1.08	0.65	3200	24.22	9.05	1.94
3500	17.70	21.48	20.85	26.04	1.08	0.64	3400	24.53	9.00	1.88
4000	16.80	20.85	20.66	26.94	1.10	0.62	3600	24.65	9.37	1.82
4500	16.04	20.16	20.79	26.89	1.10	0.62	3800	24.92	9.42	1.94
5000	15.40	19.59	21.53	25.33	1.11	0.62	4000	25.21	9.77	1.98
5500	14.66	19.04	24.75	21.42	1.12	0.61	4200	25.03	9.96	1.95
6000	14.06	18.68	23.48	18.46	1.14	0.59	4400	25.23	10.00	2.07
6500	13.59	18.29	17.74	16.16	1.13	0.60	4800	25.18	10.53	2.12
7000	13.03	17.91	14.03	13.83	1.13	0.61	5000	25.38	10.34	2.01
7500	12.54	17.63	12.36	12.87	1.13	0.61	5200	25.47	9.86	2.08
8000	12.02	17.16	10.87	11.51	1.12	0.63	5600	25.28	10.55	2.12
9000	10.64	16.58	8.43	10.11	1.14	0.62	5800	24.90	10.89	2.36
10000	8.46	16.56	5.73	7.57	1.18	0.61	6000	24.85	10.78	2.36
11000	6.28	16.29	4.64	6.28	1.22	0.59	6200	24.95	10.98	2.27
12000	4.84	15.45	4.40	6.43	1.22	0.56	6600	24.35	10.86	2.43
13000	3.41	15.34	3.95	5.79	1.19	0.52	6800	24.20	10.87	2.38
14000	1.40	17.06	2.64	4.25	1.18	0.56	7000	24.16	10.89	2.46
15000	0.24	17.25	2.68	3.99	1.14	0.51	7200	23.88	10.77	2.39
16000	0.89	16.37	3.71	5.76	1.26	0.34	8000	22.87	9.74	2.59
17000	2.20	13.94	6.13	9.55	1.30	0.17				
18000	3.04	12.18	8.60	12.62	1.27	0.28				
19000	2.81	12.39	5.65	11.64	1.22	0.39				
20000	0.40	19.13	2.71	7.48	1.92	0.40				

## 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: Icc = 42mA, Vd = 3.80V @Temperature = -45degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		FREQ	IP3 Output	1dB Comp. Output	Noise Figure
					K	Delta				
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(MHz)	(dBm)	(dBm)	(dB)
50	24.16	26.28	20.20	18.55	1.03	0.79	50	28.72	14.47	1.88
100	24.18	26.24	21.71	18.87	1.02	0.80	100	28.59	14.07	1.73
200	24.09	26.25	22.10	19.14	1.03	0.79	200	28.61	14.02	1.97
400	23.84	26.21	20.33	17.21	1.03	0.77	400	28.51	14.09	1.95
600	23.54	25.95	20.64	16.98	1.03	0.77	600	28.22	14.04	1.94
800	23.19	25.77	20.44	16.36	1.04	0.76	800	28.41	13.65	1.86
1000	22.85	25.52	20.79	16.36	1.04	0.75	1000	28.17	13.36	1.82
1200	22.46	25.31	20.67	15.96	1.04	0.73	1200	28.19	13.32	1.87
1400	22.10	25.01	21.70	16.01	1.05	0.73	1400	28.11	13.32	1.83
1600	21.67	24.70	22.67	16.09	1.05	0.72	1600	28.59	13.22	1.80
1800	21.31	24.39	24.12	16.43	1.05	0.71	1800	28.81	13.66	1.89
2000	20.90	24.11	25.27	16.71	1.06	0.70	2000	28.75	13.53	1.83
2200	20.49	23.76	27.34	17.00	1.06	0.69	2200	28.65	13.21	1.90
2400	20.12	23.43	30.58	17.52	1.06	0.69	2400	28.38	13.01	1.89
2600	19.67	23.19	34.32	18.37	1.07	0.67	2600	28.18	13.49	1.92
2800	19.34	22.80	44.03	19.05	1.07	0.67	2800	28.12	13.62	1.89
3000	18.98	22.47	38.16	20.00	1.07	0.67	3000	28.26	13.58	2.02
3200	18.61	22.16	30.70	21.07	1.08	0.66	3200	28.16	13.75	2.00
3500	18.07	21.80	27.88	21.79	1.08	0.65	3400	28.12	13.79	1.95
4000	17.14	21.10	27.28	22.64	1.10	0.63	3600	27.82	13.80	1.91
4500	16.34	20.39	26.68	22.82	1.10	0.62	3800	27.56	13.87	2.02
5000	15.68	19.76	29.06	22.08	1.11	0.62	4000	27.47	13.95	2.03
5500	14.91	19.18	35.97	19.48	1.11	0.61	4200	27.34	13.93	2.02
6000	14.28	18.76	25.15	17.01	1.12	0.60	4400	27.55	13.90	2.14
6500	13.82	18.30	19.28	15.11	1.12	0.62	4800	26.76	13.62	2.19
7000	13.30	17.86	15.13	12.98	1.11	0.63	5000	26.53	13.28	2.09
7500	12.83	17.55	13.34	12.06	1.11	0.63	5200	26.52	13.19	2.15
8000	12.32	17.01	11.62	10.77	1.10	0.66	5600	26.60	12.80	2.24
9000	10.98	16.38	8.90	9.35	1.11	0.66	5800	26.02	12.63	2.48
10000	8.81	16.30	6.01	6.89	1.14	0.65	6000	25.69	12.52	2.48
11000	6.58	16.05	4.78	5.60	1.17	0.63	6200	25.31	13.00	2.43
12000	5.14	15.17	4.52	5.77	1.17	0.60	6600	24.95	12.39	2.56
13000	3.65	15.19	4.03	5.13	1.15	0.56	6800	24.67	12.24	2.55
14000	1.61	16.95	2.71	3.70	1.15	0.60	7000	24.57	12.11	2.54
15000	0.54	17.17	2.68	3.48	1.10	0.56	7200	24.01	11.86	2.56
16000	1.42	16.14	3.79	5.34	1.21	0.39	8000	23.16	10.71	2.80
17000	2.91	13.49	6.56	9.81	1.24	0.24				
18000	3.61	11.83	9.31	13.20	1.23	0.34				
19000	3.29	12.14	5.99	10.76	1.19	0.44				
20000	0.90	19.17	2.80	6.51	1.83	0.44				



## 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: Icc = 35mA, Vd = 3.45V @Temperature = +85degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		FREQ	IP3 Output	1dB Comp. Output	Noise Figure
					K	Delta				
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(MHz)	(dBm)	(dBm)	(dB)
50	23.17	25.41	37.24	30.94	1.03	0.77	50	25.47	12.30	2.63
100	23.11	25.48	41.69	28.72	1.04	0.76	100	25.39	11.61	2.49
200	23.06	25.37	34.21	26.01	1.03	0.77	200	25.42	11.82	2.73
400	22.84	25.20	39.95	25.26	1.04	0.76	400	25.21	11.61	2.77
600	22.51	25.11	41.39	24.24	1.04	0.74	600	24.86	11.63	2.78
800	22.20	24.91	41.63	23.01	1.05	0.73	800	25.00	10.88	2.65
1000	21.82	24.70	61.76	22.48	1.05	0.72	1000	24.74	10.91	2.69
1200	21.50	24.46	54.08	21.34	1.05	0.71	1200	24.78	10.91	2.76
1400	21.10	24.28	56.66	20.43	1.06	0.69	1400	24.71	10.92	2.76
1600	20.72	24.02	41.91	20.04	1.07	0.68	1600	25.18	11.01	2.69
1800	20.32	23.77	35.81	19.69	1.07	0.67	1800	25.62	11.37	2.77
2000	19.93	23.49	32.16	19.66	1.07	0.66	2000	25.44	11.06	2.74
2200	19.49	23.24	29.07	19.97	1.08	0.65	2200	25.37	10.49	2.83
2400	19.13	22.85	26.51	20.15	1.08	0.65	2400	25.29	10.57	2.86
2600	18.66	22.68	24.40	21.20	1.10	0.62	2600	25.27	11.25	2.88
2800	18.32	22.34	22.58	21.71	1.09	0.62	2800	25.41	11.44	2.88
3000	17.93	22.09	20.98	22.63	1.10	0.61	3000	25.57	11.44	2.94
3200	17.55	21.80	20.23	23.54	1.10	0.61	3200	25.39	11.59	2.99
3500	17.03	21.47	19.34	24.92	1.11	0.59	3400	25.43	11.55	2.97
4000	16.10	20.80	19.61	27.25	1.13	0.58	3600	25.13	11.41	2.95
4500	15.29	20.14	19.94	26.21	1.15	0.57	3800	25.04	11.48	3.10
5000	14.55	19.61	20.88	22.86	1.16	0.56	4000	24.93	11.76	3.16
5500	13.74	19.10	20.93	18.61	1.18	0.55	4200	24.71	11.58	3.18
6000	13.09	18.74	19.22	16.61	1.20	0.54	4400	24.83	11.59	3.30
6500	12.52	18.30	16.25	15.48	1.20	0.54	4800	24.22	11.03	3.42
7000	11.98	17.93	14.77	14.56	1.21	0.53	5000	24.17	10.65	3.31
7500	11.51	17.63	13.24	13.83	1.21	0.54	5200	23.98	10.46	3.35
8000	10.81	17.27	11.01	12.21	1.22	0.54	5600	23.99	10.17	3.37
9000	9.02	16.98	7.34	9.17	1.24	0.55	5800	23.44	10.07	3.61
10000	6.87	16.98	5.85	7.65	1.34	0.52	6000	23.29	9.84	3.59
11000	5.12	16.23	5.41	7.34	1.39	0.49	6200	22.92	10.50	3.51
12000	3.29	15.62	4.74	6.68	1.41	0.48	6600	22.33	9.91	3.68
13000	1.36	16.15	3.63	5.46	1.41	0.48	6800	22.35	9.84	3.64
14000	-0.12	17.14	3.29	4.91	1.50	0.45	7000	22.42	9.81	3.72
15000	-0.53	16.71	3.60	5.32	1.51	0.38	7200	21.97	9.64	3.71
16000	-0.46	16.32	4.53	6.55	1.74	0.28	8000	21.34	8.35	4.01
17000	0.12	14.57	6.74	8.39	1.76	0.15				
18000	1.04	12.87	9.00	11.74	1.65	0.19				
19000	0.64	13.32	5.62	12.69	1.64	0.30				
20000	-2.13	21.47	4.14	7.88	4.08	0.30				

## 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: Icc = 28mA, Vd = 3.43V @Temperature = +85degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		FREQ	IP3 Output	1dB Comp. Output	Noise Figure
					K	Delta				
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(MHz)	(dBm)	(dBm)	(dB)
50	22.41	24.68	25.14	27.91	1.03	0.77	50	22.32	9.26	2.62
100	22.37	24.81	24.45	28.79	1.04	0.76	100	22.24	8.88	2.49
200	22.31	24.71	25.80	31.29	1.04	0.76	200	22.26	9.03	2.67
400	22.16	24.59	25.00	28.15	1.04	0.76	400	22.05	9.16	2.75
600	21.92	24.48	24.47	27.58	1.04	0.74	600	21.77	8.49	2.76
800	21.60	24.35	25.43	26.87	1.05	0.73	800	21.89	8.23	2.67
1000	21.23	24.20	24.55	25.88	1.05	0.71	1000	21.59	8.61	2.67
1200	20.92	23.89	25.33	25.08	1.05	0.71	1200	21.65	8.15	2.76
1400	20.64	23.77	25.14	23.72	1.06	0.69	1400	21.65	8.24	2.72
1600	20.25	23.52	24.60	22.95	1.06	0.68	1600	22.08	8.26	2.66
1800	19.88	23.30	23.44	22.04	1.07	0.67	1800	22.65	8.74	2.75
2000	19.48	23.00	22.45	21.62	1.07	0.66	2000	22.39	8.30	2.71
2200	19.10	22.82	21.63	21.79	1.08	0.64	2200	22.41	7.58	2.81
2400	18.75	22.46	20.63	21.70	1.07	0.64	2400	22.62	7.39	2.81
2600	18.32	22.38	19.59	22.74	1.09	0.62	2600	22.97	8.65	2.85
2800	17.98	22.00	18.70	22.97	1.09	0.62	2800	23.37	9.08	2.81
3000	17.63	21.79	17.68	23.47	1.09	0.61	3000	23.68	8.95	2.89
3200	17.29	21.52	17.17	24.44	1.09	0.61	3200	23.53	9.09	2.97
3500	16.75	21.15	16.76	25.44	1.10	0.60	3400	23.81	9.09	2.95
4000	15.85	20.62	17.17	28.50	1.13	0.57	3600	23.77	9.32	2.92
4500	15.05	19.92	17.53	29.73	1.14	0.57	3800	23.92	9.45	3.05
5000	14.35	19.43	18.25	25.45	1.16	0.56	4000	24.07	9.88	3.09
5500	13.55	18.97	18.66	20.08	1.18	0.54	4200	23.77	9.75	3.13
6000	12.92	18.63	17.65	17.58	1.20	0.53	4400	23.91	10.00	3.27
6500	12.35	18.25	15.25	16.28	1.21	0.53	4800	23.61	9.76	3.34
7000	11.82	17.94	14.02	15.32	1.22	0.52	5000	23.66	9.39	3.27
7500	11.31	17.67	12.62	14.52	1.23	0.52	5200	23.60	9.34	3.29
8000	10.61	17.31	10.61	12.85	1.23	0.53	5600	23.49	9.43	3.30
9000	8.81	17.11	7.17	9.66	1.27	0.53	5800	23.09	9.46	3.52
10000	6.70	17.11	5.75	8.13	1.38	0.50	6000	23.15	9.11	3.47
11000	4.95	16.38	5.35	7.81	1.43	0.47	6200	22.75	9.73	3.45
12000	3.16	15.75	4.70	7.12	1.45	0.46	6600	22.10	9.38	3.58
13000	1.23	16.26	3.62	5.78	1.45	0.46	6800	22.25	9.30	3.51
14000	-0.29	17.22	3.25	5.21	1.53	0.43	7000	22.40	9.31	3.56
15000	-0.76	16.81	3.58	5.57	1.56	0.36	7200	22.02	9.22	3.59
16000	-0.82	16.52	4.47	6.66	1.82	0.26	8000	21.36	7.91	3.89
17000	-0.29	14.80	6.56	8.16	1.82	0.13				
18000	0.75	13.11	8.69	11.28	1.70	0.17				
19000	0.31	13.44	5.51	13.03	1.69	0.27				
20000	-2.40	21.33	4.13	8.23	4.17	0.28				



## Typical Performance Data

### Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

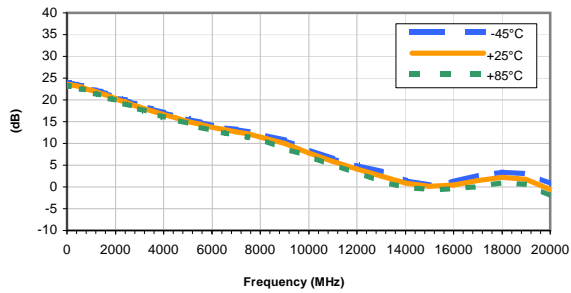
TEST CONDITIONS: Icc = 42mA, Vd = 3.46V @Temperature = +85degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		FREQ	IP3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(MHz)	(dBm)	(dBm)	(dB)
50	23.61	25.57	25.25	23.22	1.02	0.80	50	28.15	13.85	2.67
100	23.58	25.80	24.95	21.34	1.03	0.78	100	28.11	13.46	2.50
200	23.45	25.82	24.13	20.49	1.03	0.77	200	28.10	13.34	2.73
400	23.24	25.63	26.35	20.92	1.04	0.76	400	27.74	13.24	2.81
600	22.91	25.49	26.44	20.19	1.04	0.75	600	27.12	13.30	2.79
800	22.59	25.31	26.88	19.58	1.05	0.74	800	27.09	12.91	2.69
1000	22.20	25.13	27.54	19.13	1.05	0.72	1000	26.75	12.81	2.73
1200	21.83	24.87	28.85	18.88	1.06	0.71	1200	26.68	12.73	2.81
1400	21.41	24.58	29.58	18.28	1.06	0.70	1400	26.49	12.85	2.78
1600	21.00	24.30	31.68	18.10	1.06	0.69	1600	26.84	12.60	2.74
1800	20.57	24.08	33.70	17.80	1.07	0.67	1800	26.82	12.98	2.83
2000	20.15	23.75	40.34	18.04	1.08	0.66	2000	26.65	12.84	2.78
2200	19.73	23.45	45.72	18.36	1.08	0.65	2200	26.45	12.58	2.89
2400	19.35	23.15	33.47	18.93	1.09	0.64	2400	26.12	12.33	2.90
2600	18.87	22.92	30.37	19.66	1.10	0.62	2600	25.81	12.61	2.92
2800	18.51	22.58	25.95	20.51	1.10	0.62	2800	25.63	12.62	2.93
3000	18.13	22.27	24.19	21.23	1.10	0.62	3000	25.63	12.67	2.98
3200	17.72	21.99	22.66	22.22	1.11	0.61	3200	25.36	12.75	3.07
3500	17.18	21.56	21.19	23.79	1.12	0.60	3400	25.29	12.48	3.06
4000	16.24	20.94	21.60	25.41	1.14	0.58	3600	24.95	12.27	3.00
4500	15.41	20.26	21.93	24.39	1.15	0.57	3800	24.70	12.43	3.10
5000	14.67	19.70	23.16	21.59	1.16	0.56	4000	24.62	12.55	3.22
5500	13.85	19.19	22.71	17.92	1.18	0.55	4200	24.35	12.32	3.22
6000	13.19	18.78	20.11	16.12	1.20	0.54	4400	24.49	12.16	3.41
6500	12.63	18.32	16.83	15.06	1.20	0.54	4800	23.88	11.52	3.45
7000	12.11	17.92	15.24	14.19	1.20	0.54	5000	23.73	11.10	3.38
7500	11.61	17.61	13.64	13.44	1.20	0.54	5200	23.52	11.01	3.43
8000	10.94	17.21	11.23	11.94	1.20	0.55	5600	23.48	10.51	3.43
9000	9.13	16.88	7.48	8.89	1.23	0.56	5800	22.96	10.35	3.70
10000	7.00	16.88	5.90	7.39	1.32	0.53	6000	22.92	10.16	3.70
11000	5.23	16.15	5.45	7.07	1.36	0.51	6200	22.41	10.82	3.64
12000	3.37	15.43	4.76	6.47	1.38	0.50	6600	22.04	10.23	3.80
13000	1.44	16.14	3.66	5.23	1.40	0.50	6800	21.92	10.11	3.78
14000	-0.04	17.08	3.26	4.70	1.46	0.47	7000	21.98	10.09	3.80
15000	-0.42	16.70	3.59	5.15	1.48	0.40	7200	21.65	9.89	3.82
16000	-0.28	16.24	4.56	6.44	1.70	0.29	8000	21.03	8.58	4.14
17000	0.34	14.36	6.88	8.44	1.71	0.17				
18000	1.23	12.69	9.20	11.99	1.61	0.21				
19000	0.83	13.22	5.75	12.33	1.61	0.31				
20000	-2.01	21.39	4.15	7.58	3.96	0.31				

## Typical Performance Curves

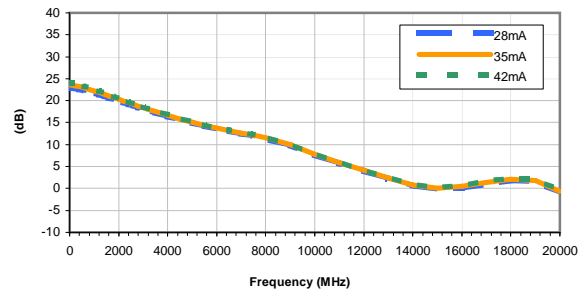
### GAIN vs. TEMPERATURE

INPUT POWER = -25dBm, CURRENT = 35mA



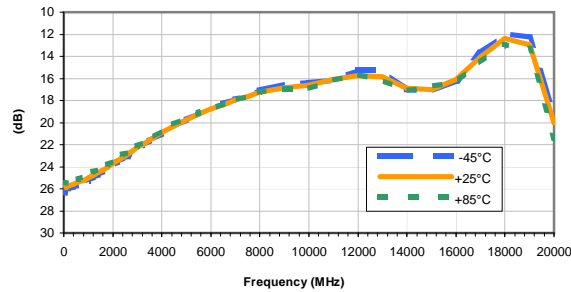
### GAIN vs. CURRENT

INPUT POWER = -25dBm, Temperature = +25°C



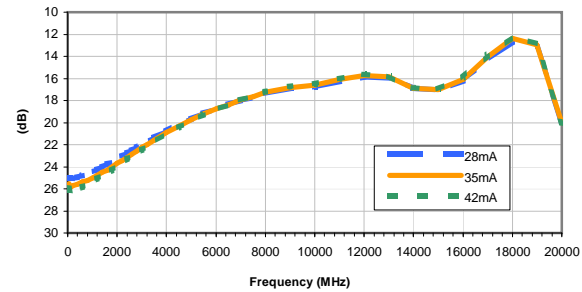
### ISOLATION vs. TEMPERATURE

INPUT POWER = -25dBm, CURRENT = 35mA



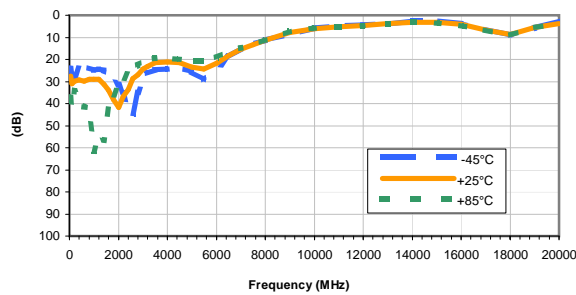
### ISOLATION vs. CURRENT

INPUT POWER = -25dBm, Temperature = +25°C



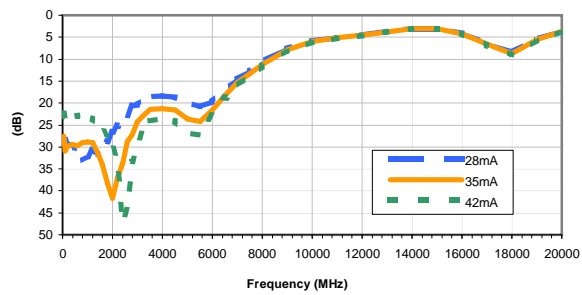
### INPUT RETURN LOSS vs. TEMPERATURE

INPUT POWER = -25dBm, CURRENT = 35mA



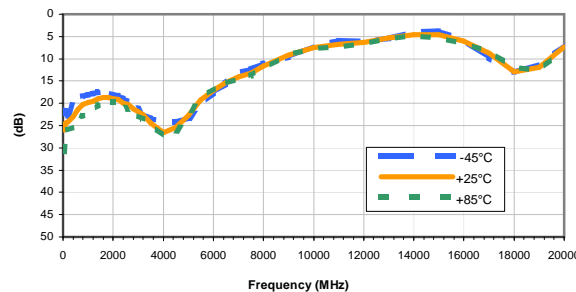
### INPUT RETURN LOSS vs. CURRENT

INPUT POWER = -25dBm, Temperature = +25°C



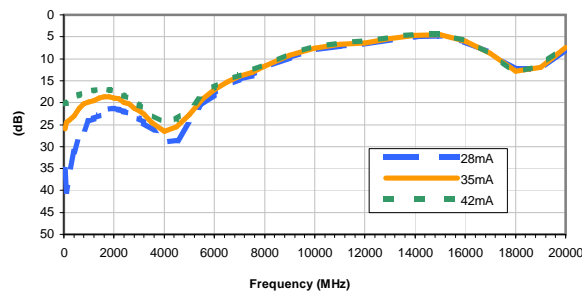
### OUTPUT RETURN LOSS vs. TEMPERATURE

INPUT POWER = -25dBm, CURRENT = 35mA



### OUTPUT RETURN LOSS vs. CURRENT

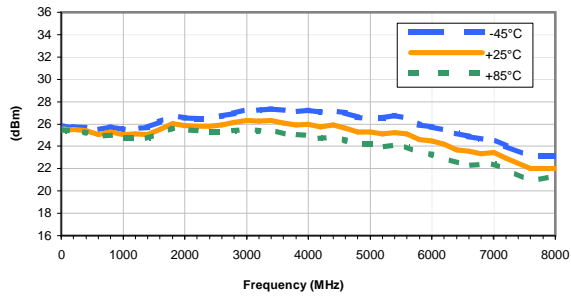
INPUT POWER = -25dBm, Temperature = +25°C



## Typical Performance Curves

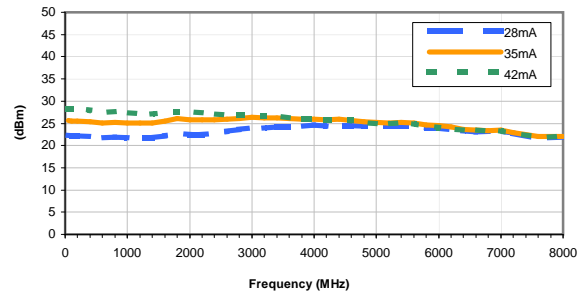
OUTPUT IP3 vs. TEMPERATURE

INPUT POWER = -25dBm, CURRENT = 35mA



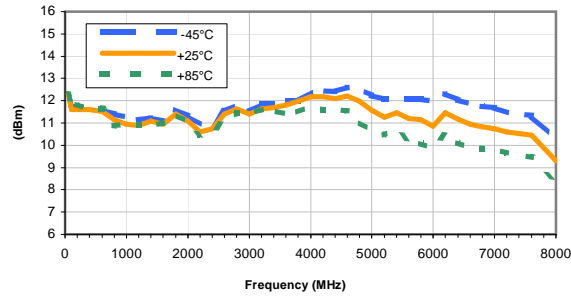
OUTPUT IP-3 vs. CURRENT

INPUT POWER = -25dBm, Temperature = +25°C



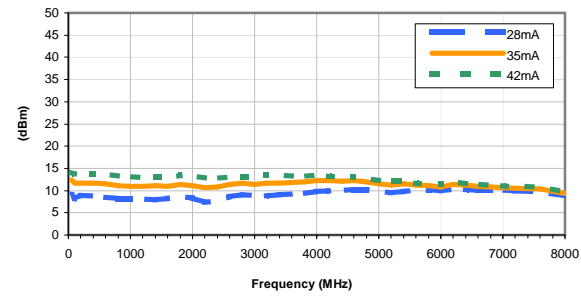
OUTPUT POWER at 1dB Compression vs. TEMPERATURE

CURRENT = 35mA



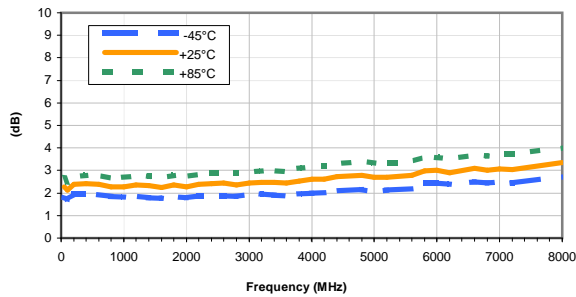
OUTPUT POWER at 1dB Compression vs. CURRENT

Temperature = +25°C



Noise Figure vs. TEMPERATURE

CURRENT = 35mA



Noise Figure vs. CURRENT

Temperature = +25°C

