

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 = 50mA, Vd = 4.40V @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	22.67	26.03	33.68	18.97	1.07	0.68	50	30.15	15.98	2.79
100	22.63	25.65	31.79	18.92	1.05	0.71	100	30.31	16.16	3.17
200	22.54	25.88	31.39	18.75	1.07	0.68	150	30.57	16.11	2.92
400	22.33	25.78	31.56	18.36	1.07	0.67	200	30.43	16.03	2.78
600	22.02	25.72	31.15	17.87	1.08	0.66	250	29.80	15.99	2.91
800	21.69	25.63	32.46	17.68	1.09	0.64	300	30.49	15.95	3.15
1000	21.30	25.55	32.99	17.49	1.11	0.61	350	30.58	16.20	2.92
1200	20.92	25.50	32.57	17.43	1.13	0.59	400	29.90	16.05	2.89
1400	20.54	25.41	30.47	17.36	1.14	0.57	450	30.15	15.93	2.92
1600	20.13	25.34	28.25	17.45	1.16	0.55	500	29.89	16.01	3.05
1800	19.73	25.26	26.11	17.49	1.19	0.52	550	30.14	15.79	3.06
2000	19.33	25.18	24.08	17.55	1.21	0.50	600	29.93	15.88	2.89
2200	18.94	25.09	22.53	17.73	1.23	0.48	650	30.10	15.96	2.90
2400	18.57	25.01	21.25	17.87	1.25	0.47	700	30.37	15.86	3.02
2600	18.23	24.96	20.00	17.99	1.28	0.45	750	30.08	15.84	3.02
2800	17.90	24.84	19.08	18.11	1.29	0.44	800	30.70	15.93	2.92
3000	17.59	24.80	18.19	18.14	1.31	0.42	850	30.14	15.82	2.88
3200	17.29	24.75	17.45	18.52	1.34	0.41	900	30.88	15.95	3.01
3400	17.04	24.66	16.81	18.61	1.35	0.40	950	30.29	15.88	3.13
3600	16.79	24.61	16.19	18.89	1.37	0.39	1000	30.76	15.91	2.92
3800	16.55	24.57	15.78	19.37	1.39	0.38	1050	30.51	15.90	2.83
4000	16.34	24.56	15.46	19.92	1.42	0.37	1100	30.58	15.55	2.98
4200	16.16	24.50	15.18	20.39	1.43	0.37	1150	30.67	15.68	3.03
4400	16.01	24.52	14.96	21.03	1.45	0.36	1200	30.59	15.24	2.97
4600	15.84	24.47	14.94	21.67	1.47	0.36	1250	30.83	15.48	2.86
4800	15.73	24.44	14.83	22.20	1.48	0.35	1300	30.51	15.30	3.01
5000	15.64	24.44	14.71	22.85	1.49	0.35	1350	30.74	15.35	3.07
5500	15.45	24.44	14.81	23.84	1.52	0.35	1400	30.09	15.23	3.05
6000	15.25	24.42	14.54	21.29	1.55	0.34	1450	30.51	15.48	3.06
6500	14.87	24.45	13.33	17.43	1.59	0.34	1500	30.10	15.26	3.10
7000	14.10	24.21	11.73	13.88	1.62	0.35	1550	30.45	15.43	3.10
7500	12.85	23.83	10.29	11.77	1.70	0.35	1600	30.31	15.36	3.11
8000	11.19	23.21	9.19	10.51	1.81	0.34	1650	30.86	15.51	3.05
9000	7.61	20.92	7.40	8.76	1.88	0.36	1700	31.15	15.35	3.06
10000	4.61	18.01	6.34	8.13	1.75	0.36	1750	31.10	15.41	3.11
11000	2.73	14.67	6.47	8.92	1.51	0.34	1800	31.06	15.27	3.06
12000	1.78	10.99	7.99	11.22	1.29	0.36	1850	30.99	15.43	2.98
13000	0.98	7.11	9.88	14.58	1.11	0.49	1900	30.73	15.32	3.04
14000	-0.54	4.74	7.03	8.85	1.02	0.66	1950	30.97	15.53	3.03
15000	-3.72	5.45	3.72	4.08	1.02	0.73	2000	30.55	15.33	2.94

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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 = 40mA, Vd = 4.36V @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	22.26	25.77	38.60	22.90	1.08	0.67	50	26.66	13.24	2.73
100	22.27	25.36	40.05	22.66	1.06	0.70	100	26.78	13.42	3.05
200	22.16	25.40	39.86	22.57	1.07	0.69	150	27.01	13.31	2.83
400	21.95	25.40	35.44	21.58	1.07	0.67	200	26.87	13.16	2.80
600	21.68	25.37	33.06	20.46	1.08	0.65	250	26.38	13.19	2.83
800	21.36	25.29	31.25	19.86	1.09	0.63	300	26.91	13.23	3.05
1000	21.01	25.21	29.78	19.33	1.11	0.61	350	26.98	13.39	2.86
1200	20.61	25.12	28.14	19.10	1.12	0.59	400	26.36	13.37	2.86
1400	20.25	25.09	25.95	18.77	1.14	0.57	450	26.60	13.14	2.86
1600	19.86	25.05	24.19	18.69	1.16	0.54	500	26.41	13.36	2.93
1800	19.48	24.96	22.50	18.52	1.18	0.52	550	26.62	13.02	2.99
2000	19.08	24.84	21.31	18.48	1.20	0.51	600	26.44	13.17	2.86
2200	18.72	24.86	20.06	18.47	1.23	0.48	650	26.57	13.30	2.82
2400	18.34	24.75	19.08	18.51	1.24	0.47	700	26.88	13.20	2.92
2600	17.99	24.69	18.31	18.48	1.27	0.45	750	26.56	13.07	2.95
2800	17.69	24.63	17.40	18.49	1.28	0.43	800	27.24	13.28	2.90
3000	17.38	24.56	16.66	18.46	1.30	0.42	850	26.57	13.20	2.83
3200	17.08	24.54	16.18	18.74	1.33	0.41	900	27.33	13.44	2.92
3400	16.83	24.49	15.54	18.74	1.35	0.40	950	26.74	13.28	3.04
3600	16.59	24.43	15.06	18.99	1.36	0.39	1000	27.21	13.32	2.87
3800	16.37	24.40	14.61	19.42	1.38	0.38	1050	26.96	13.25	2.79
4000	16.14	24.42	14.42	19.94	1.41	0.37	1100	27.05	12.91	2.92
4200	15.95	24.41	14.24	20.42	1.43	0.36	1150	27.21	13.22	2.97
4400	15.82	24.37	14.01	21.11	1.45	0.36	1200	27.06	12.57	2.94
4600	15.65	24.34	14.00	21.93	1.47	0.35	1250	27.39	12.86	2.82
4800	15.53	24.34	13.90	22.55	1.48	0.35	1300	27.03	12.70	2.94
5000	15.44	24.33	13.78	23.38	1.49	0.35	1350	27.36	12.87	2.99
5500	15.23	24.38	13.89	25.70	1.54	0.34	1400	26.76	12.67	3.00
6000	15.02	24.35	13.69	23.35	1.56	0.34	1450	27.21	12.93	3.02
6500	14.65	24.33	12.57	18.61	1.59	0.34	1500	26.76	12.64	3.02
7000	13.87	24.13	11.18	14.67	1.64	0.34	1550	27.14	12.98	3.04
7500	12.60	23.76	9.93	12.40	1.73	0.34	1600	26.97	12.66	3.04
8000	10.97	23.11	8.96	11.00	1.83	0.34	1650	27.47	12.93	3.00
9000	7.43	20.89	7.30	9.14	1.91	0.35	1700	27.59	12.67	2.99
10000	4.45	18.03	6.27	8.47	1.78	0.35	1750	27.72	12.93	3.01
11000	2.59	14.72	6.40	9.23	1.53	0.33	1800	27.80	12.77	2.99
12000	1.65	11.07	7.87	11.49	1.31	0.34	1850	27.70	12.82	2.94
13000	0.87	7.17	9.72	14.79	1.12	0.47	1900	27.52	12.80	2.98
14000	-0.62	4.77	6.95	8.92	1.02	0.65	1950	27.74	12.87	2.95
15000	-3.79	5.45	3.70	4.11	1.02	0.72	2000	27.43	12.78	2.88

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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 = 60mA, Vd = 4.43V @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	22.90	26.34	27.49	17.06	1.07	0.68	50	32.76	17.65	2.85
100	22.86	26.07	26.39	17.15	1.06	0.70	100	32.97	17.72	3.23
200	22.76	26.04	26.53	17.00	1.06	0.69	150	33.18	17.65	2.97
400	22.54	26.02	26.79	16.76	1.07	0.68	200	33.03	17.62	2.83
600	22.22	26.00	26.83	16.51	1.08	0.65	250	32.32	17.63	2.92
800	21.88	25.91	28.02	16.40	1.10	0.63	300	33.11	17.56	3.21
1000	21.50	25.84	29.30	16.37	1.11	0.61	350	33.15	17.77	2.98
1200	21.11	25.73	31.05	16.38	1.13	0.59	400	32.41	17.63	2.91
1400	20.71	25.63	31.49	16.51	1.15	0.57	450	32.64	17.55	2.97
1600	20.29	25.57	30.54	16.59	1.17	0.54	500	32.40	17.58	3.11
1800	19.88	25.44	28.59	16.73	1.19	0.53	550	32.64	17.47	3.13
2000	19.49	25.36	26.09	16.85	1.21	0.50	600	32.37	17.43	2.94
2200	19.10	25.28	24.49	17.12	1.23	0.48	650	32.58	17.46	2.93
2400	18.72	25.17	22.79	17.30	1.26	0.47	700	32.81	17.46	3.10
2600	18.38	25.09	21.48	17.50	1.28	0.45	750	32.59	17.45	3.08
2800	18.04	25.01	20.43	17.65	1.30	0.44	800	33.17	17.43	2.97
3000	17.73	24.91	19.41	17.76	1.32	0.42	850	32.68	17.41	2.91
3200	17.44	24.87	18.53	18.14	1.34	0.41	900	33.31	17.36	3.05
3400	17.17	24.78	17.76	18.29	1.36	0.40	950	32.73	17.38	3.22
3600	16.93	24.74	17.15	18.59	1.38	0.39	1000	33.19	17.42	2.96
3800	16.69	24.69	16.61	19.03	1.40	0.38	1050	32.88	17.36	2.89
4000	16.47	24.64	16.19	19.55	1.41	0.37	1100	33.00	17.27	3.05
4200	16.30	24.60	15.94	20.00	1.43	0.37	1150	32.99	17.27	3.12
4400	16.15	24.57	15.74	20.59	1.45	0.36	1200	33.01	17.10	3.01
4600	15.99	24.53	15.70	21.08	1.46	0.36	1250	33.22	17.11	2.89
4800	15.87	24.50	15.50	21.48	1.47	0.36	1300	32.75	17.15	3.06
5000	15.79	24.49	15.41	21.99	1.48	0.35	1350	32.93	17.13	3.14
5500	15.61	24.50	15.53	22.42	1.52	0.35	1400	32.36	17.05	3.10
6000	15.43	24.44	15.26	20.08	1.53	0.35	1450	32.73	17.09	3.12
6500	15.07	24.47	13.92	16.62	1.56	0.35	1500	32.21	17.01	3.17
7000	14.32	24.24	12.13	13.32	1.59	0.36	1550	32.66	17.16	3.17
7500	13.07	23.87	10.55	11.34	1.67	0.36	1600	32.54	17.03	3.15
8000	11.41	23.23	9.36	10.12	1.77	0.35	1650	33.08	17.08	3.09
9000	7.78	20.93	7.48	8.48	1.84	0.36	1700	33.46	17.09	3.11
10000	4.76	18.00	6.39	7.89	1.72	0.37	1750	33.25	17.02	3.17
11000	2.85	14.62	6.52	8.69	1.48	0.35	1800	33.23	16.98	3.11
12000	1.90	10.93	8.09	11.01	1.27	0.37	1850	32.93	17.08	3.04
13000	1.07	7.07	10.00	14.40	1.10	0.49	1900	32.69	17.03	3.09
14000	-0.48	4.73	7.09	8.77	1.01	0.66	1950	32.74	17.16	3.11
15000	-3.67	5.45	3.74	4.08	1.02	0.73	2000	32.60	17.03	2.99

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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 = 50mA, Vd = 4.63V @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	22.82	26.04	33.37	18.45	1.06	0.69	50	30.65	16.05	2.41
100	22.79	25.91	34.55	19.19	1.06	0.70	100	30.75	16.08	2.77
200	22.71	25.88	35.75	19.12	1.06	0.70	150	30.93	15.93	2.50
400	22.50	25.87	28.82	17.41	1.07	0.68	200	30.77	15.87	2.37
600	22.20	25.81	29.23	17.36	1.08	0.66	250	30.32	15.90	2.45
800	21.88	25.69	30.62	17.16	1.09	0.65	300	30.94	15.94	2.69
1000	21.51	25.66	31.17	17.20	1.10	0.62	350	31.10	16.20	2.49
1200	21.14	25.56	32.85	16.77	1.12	0.60	400	30.50	16.05	2.44
1400	20.77	25.48	32.19	16.66	1.13	0.58	450	30.79	15.95	2.45
1600	20.36	25.40	30.53	16.84	1.15	0.56	500	30.56	16.07	2.60
1800	19.97	25.29	28.51	17.14	1.17	0.54	550	30.81	15.78	2.60
2000	19.60	25.15	25.57	17.22	1.19	0.52	600	30.57	15.97	2.42
2200	19.21	25.17	24.03	17.17	1.22	0.50	650	30.79	15.92	2.42
2400	18.84	25.05	22.63	17.20	1.23	0.48	700	31.07	15.95	2.54
2600	18.51	24.94	21.35	17.29	1.25	0.47	750	30.77	15.81	2.55
2800	18.18	24.89	20.25	17.62	1.27	0.45	800	31.41	15.90	2.46
3000	17.88	24.76	19.37	17.63	1.29	0.44	850	30.80	15.88	2.43
3200	17.61	24.70	18.72	18.01	1.30	0.43	900	31.59	16.05	2.53
3400	17.35	24.59	18.15	18.03	1.32	0.42	950	30.99	15.87	2.57
3600	17.12	24.57	17.47	18.27	1.34	0.41	1000	31.51	15.95	2.45
3800	16.89	24.52	17.01	18.58	1.35	0.40	1050	31.21	15.94	2.38
4000	16.69	24.49	16.70	18.81	1.37	0.39	1100	31.33	15.55	2.49
4200	16.53	24.41	16.87	18.82	1.38	0.39	1150	31.41	15.73	2.55
4400	16.39	24.41	16.57	19.23	1.40	0.38	1200	31.34	15.28	2.48
4600	16.23	24.38	16.38	19.65	1.42	0.38	1250	31.69	15.47	2.37
4800	16.13	24.34	16.04	20.40	1.42	0.37	1300	31.25	15.31	2.53
5000	16.06	24.33	15.97	21.29	1.43	0.37	1350	31.60	15.41	2.58
5500	15.95	24.30	15.66	22.80	1.45	0.37	1400	30.99	15.32	2.54
6000	15.84	24.22	15.55	19.58	1.44	0.38	1450	31.39	15.48	2.57
6500	15.63	24.19	14.45	15.88	1.45	0.38	1500	30.93	15.31	2.59
7000	15.03	23.95	12.64	12.65	1.46	0.39	1550	31.33	15.50	2.60
7500	13.86	23.66	10.39	10.71	1.51	0.39	1600	31.19	15.34	2.59
8000	12.32	23.03	9.13	9.88	1.59	0.39	1650	31.74	15.51	2.53
9000	8.72	20.80	7.44	8.03	1.66	0.40	1700	31.87	15.32	2.54
10000	5.50	18.10	6.03	7.19	1.56	0.41	1750	32.04	15.46	2.59
11000	3.58	14.67	6.21	8.09	1.35	0.38	1800	31.90	15.29	2.53
12000	2.71	10.88	8.02	10.51	1.18	0.40	1850	31.91	15.47	2.47
13000	1.64	7.18	8.74	12.31	1.03	0.53	1900	31.64	15.40	2.51
14000	0.38	4.37	7.73	9.62	0.96	0.70	1950	32.06	15.61	2.52
15000	-3.03	5.07	3.42	3.59	0.96	0.81	2000	31.54	15.39	2.43

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Definitions:

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Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Icc = 40mA, Vd = 4.59V @ 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	22.48	25.47	40.91	21.62	1.05	0.71	50	27.02	13.27	2.38
100	22.49	25.57	38.40	22.70	1.06	0.70	100	27.12	13.37	2.64
200	22.38	25.56	35.80	22.60	1.06	0.69	150	27.24	13.14	2.45
400	22.16	25.52	35.55	19.83	1.07	0.68	200	27.11	13.09	2.38
600	21.91	25.46	34.17	19.47	1.08	0.66	250	26.75	13.20	2.41
800	21.60	25.40	33.44	18.99	1.09	0.64	300	27.26	13.23	2.62
1000	21.26	25.33	30.87	18.91	1.10	0.62	350	27.43	13.49	2.45
1200	20.87	25.28	30.95	18.23	1.12	0.60	400	26.87	13.38	2.43
1400	20.52	25.19	29.14	17.81	1.13	0.58	450	27.16	13.23	2.45
1600	20.12	25.09	26.92	17.93	1.15	0.56	500	26.95	13.35	2.52
1800	19.75	25.01	24.73	18.14	1.16	0.54	550	27.20	13.17	2.55
2000	19.38	24.95	22.81	18.22	1.19	0.52	600	27.00	13.22	2.42
2200	19.01	24.88	21.62	18.00	1.20	0.50	650	27.16	13.20	2.41
2400	18.64	24.81	20.51	17.99	1.23	0.48	700	27.47	13.23	2.47
2600	18.30	24.75	19.51	17.89	1.25	0.46	750	27.14	13.13	2.50
2800	18.00	24.65	18.68	18.09	1.26	0.45	800	27.79	13.24	2.45
3000	17.70	24.61	17.76	18.01	1.28	0.43	850	27.12	13.06	2.39
3200	17.42	24.55	17.37	18.31	1.30	0.42	900	27.91	13.35	2.45
3400	17.17	24.46	16.89	18.31	1.32	0.41	950	27.30	13.14	2.52
3600	16.95	24.43	16.25	18.51	1.33	0.40	1000	27.83	13.21	2.41
3800	16.73	24.39	15.88	18.84	1.35	0.40	1050	27.56	13.22	2.35
4000	16.52	24.37	15.72	19.09	1.37	0.39	1100	27.67	12.90	2.43
4200	16.34	24.33	15.79	19.13	1.39	0.38	1150	27.81	13.18	2.48
4400	16.22	24.33	15.58	19.54	1.40	0.38	1200	27.64	12.66	2.46
4600	16.06	24.24	15.35	20.09	1.41	0.37	1250	27.97	12.93	2.34
4800	15.96	24.24	15.06	20.90	1.42	0.37	1300	27.65	12.74	2.47
5000	15.89	24.21	15.02	21.99	1.43	0.37	1350	28.01	12.81	2.52
5500	15.75	24.25	14.73	24.47	1.46	0.37	1400	27.42	12.68	2.51
6000	15.64	24.15	14.59	21.03	1.46	0.37	1450	27.86	12.86	2.53
6500	15.43	24.11	13.62	16.86	1.46	0.38	1500	27.40	12.71	2.55
7000	14.82	23.87	12.07	13.33	1.47	0.39	1550	27.85	12.98	2.54
7500	13.65	23.56	10.03	11.27	1.53	0.39	1600	27.63	12.61	2.55
8000	12.09	22.95	8.89	10.39	1.61	0.38	1650	28.11	12.92	2.52
9000	8.54	20.78	7.33	8.38	1.68	0.39	1700	28.18	12.75	2.51
10000	5.35	18.11	5.97	7.49	1.59	0.40	1750	28.32	12.90	2.54
11000	3.45	14.72	6.15	8.39	1.37	0.37	1800	28.20	12.77	2.49
12000	2.59	10.95	7.89	10.78	1.19	0.39	1850	28.37	12.82	2.42
13000	1.54	7.23	8.62	12.53	1.04	0.52	1900	28.07	12.73	2.48
14000	0.30	4.40	7.65	9.71	0.96	0.69	1950	28.55	12.86	2.45
15000	-3.10	5.08	3.40	3.62	0.96	0.80	2000	27.99	12.77	2.38

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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 = 60mA, Vd = 4.66V @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	23.02	26.37	28.31	17.03	1.07	0.69	50	33.45	17.84	2.46
100	22.99	26.06	28.21	17.49	1.05	0.71	100	33.51	17.91	2.82
200	22.90	26.14	29.07	17.66	1.06	0.69	150	33.72	17.86	2.55
400	22.68	26.10	25.67	16.25	1.07	0.68	200	33.57	17.80	2.40
600	22.38	26.05	26.05	16.13	1.08	0.66	250	32.94	17.82	2.48
800	22.06	25.96	27.18	16.04	1.09	0.64	300	33.76	17.80	2.74
1000	21.68	25.82	28.02	16.09	1.10	0.63	350	33.87	18.02	2.53
1200	21.30	25.79	29.81	15.94	1.12	0.60	400	33.25	17.89	2.46
1400	20.91	25.68	30.30	15.85	1.13	0.58	450	33.53	17.84	2.50
1600	20.51	25.57	30.97	16.13	1.15	0.56	500	33.25	17.84	2.64
1800	20.11	25.47	30.55	16.42	1.17	0.54	550	33.51	17.66	2.65
2000	19.74	25.33	27.38	16.59	1.19	0.52	600	33.31	17.72	2.46
2200	19.34	25.27	25.95	16.52	1.21	0.50	650	33.47	17.68	2.46
2400	18.97	25.14	24.25	16.67	1.23	0.49	700	33.78	17.75	2.60
2600	18.64	25.11	22.76	16.87	1.25	0.47	750	33.59	17.65	2.59
2800	18.32	24.98	21.60	17.15	1.27	0.45	800	34.13	17.70	2.47
3000	18.00	24.90	20.54	17.22	1.29	0.44	850	33.59	17.67	2.43
3200	17.73	24.85	19.81	17.65	1.31	0.43	900	34.37	17.63	2.57
3400	17.48	24.74	19.17	17.69	1.32	0.42	950	33.72	17.66	2.63
3600	17.24	24.67	18.39	17.93	1.34	0.41	1000	34.25	17.69	2.45
3800	17.02	24.60	17.94	18.20	1.35	0.40	1050	33.90	17.69	2.41
4000	16.82	24.55	17.59	18.45	1.37	0.39	1100	34.10	17.45	2.54
4200	16.65	24.53	17.64	18.46	1.39	0.39	1150	34.13	17.54	2.60
4400	16.51	24.49	17.40	18.80	1.40	0.38	1200	33.97	17.26	2.53
4600	16.36	24.42	17.24	19.14	1.41	0.38	1250	34.27	17.41	2.40
4800	16.26	24.39	16.83	19.87	1.42	0.38	1300	33.98	17.38	2.57
5000	16.20	24.36	16.71	20.53	1.42	0.38	1350	34.20	17.42	2.62
5500	16.09	24.34	16.39	21.64	1.44	0.38	1400	33.53	17.29	2.59
6000	16.00	24.25	16.19	18.73	1.43	0.38	1450	33.95	17.38	2.60
6500	15.82	24.20	15.22	15.21	1.43	0.39	1500	33.47	17.26	2.64
7000	15.24	23.99	13.06	12.15	1.44	0.40	1550	33.89	17.41	2.66
7500	14.08	23.67	10.78	10.26	1.49	0.40	1600	33.80	17.26	2.63
8000	12.54	23.06	9.29	9.50	1.56	0.40	1650	34.33	17.36	2.56
9000	8.91	20.83	7.53	7.75	1.63	0.41	1700	34.64	17.31	2.58
10000	5.65	18.08	6.08	6.96	1.53	0.42	1750	34.64	17.27	2.64
11000	3.71	14.63	6.27	7.85	1.33	0.39	1800	34.59	17.20	2.57
12000	2.82	10.83	8.13	10.29	1.16	0.42	1850	34.37	17.34	2.50
13000	1.74	7.12	8.85	12.16	1.02	0.54	1900	34.24	17.26	2.55
14000	0.45	4.36	7.81	9.56	0.96	0.71	1950	34.35	17.45	2.57
15000	-2.97	5.05	3.45	3.57	0.96	0.81	2000	34.10	17.28	2.48

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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 = 50mA, Vd = 4.21V @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	22.47	25.69	36.32	19.88	1.06	0.69	50	29.87	15.98	3.19
100	22.45	25.61	32.41	19.42	1.06	0.70	100	30.00	16.07	3.49
200	22.36	25.65	30.09	18.44	1.07	0.69	150	30.36	15.96	3.30
400	22.11	25.59	33.24	19.15	1.07	0.67	200	30.19	15.91	3.17
600	21.82	25.58	33.81	18.74	1.09	0.65	250	29.50	15.93	3.29
800	21.47	25.54	34.63	18.75	1.10	0.63	300	30.22	15.95	3.48
1000	21.10	25.42	33.50	18.68	1.11	0.61	350	30.19	16.09	3.34
1200	20.69	25.34	31.14	18.55	1.13	0.58	400	29.45	15.92	3.31
1400	20.30	25.28	28.39	18.38	1.15	0.56	450	29.68	15.83	3.33
1600	19.89	25.20	26.28	18.22	1.17	0.54	500	29.42	15.91	3.46
1800	19.49	25.13	24.11	18.06	1.19	0.52	550	29.65	15.67	3.50
2000	19.09	25.03	22.42	17.95	1.21	0.50	600	29.40	15.68	3.30
2200	18.68	24.97	21.04	18.09	1.24	0.47	650	29.57	15.73	3.32
2400	18.30	24.87	19.93	18.12	1.26	0.46	700	29.81	15.74	3.45
2600	17.93	24.78	19.01	18.17	1.28	0.44	750	29.52	15.72	3.45
2800	17.58	24.74	18.21	18.31	1.31	0.42	800	30.14	15.74	3.36
3000	17.27	24.68	17.32	18.33	1.33	0.41	850	29.56	15.73	3.32
3200	16.96	24.61	16.61	18.77	1.35	0.40	900	30.18	15.84	3.44
3400	16.68	24.56	15.95	19.01	1.38	0.39	950	29.66	15.72	3.52
3600	16.42	24.51	15.23	19.55	1.40	0.38	1000	30.02	15.73	3.36
3800	16.17	24.48	14.76	20.22	1.42	0.37	1050	29.78	15.75	3.28
4000	15.95	24.45	14.44	20.98	1.44	0.36	1100	29.87	15.47	3.42
4200	15.75	24.45	14.25	21.75	1.47	0.35	1150	29.99	15.61	3.51
4400	15.57	24.44	14.12	22.49	1.49	0.35	1200	29.87	15.10	3.43
4600	15.41	24.40	14.08	23.05	1.51	0.34	1250	30.11	15.35	3.31
4800	15.28	24.37	14.13	23.15	1.52	0.34	1300	29.79	15.12	3.48
5000	15.15	24.39	14.19	23.36	1.55	0.33	1350	29.99	15.28	3.53
5500	14.88	24.40	14.37	23.36	1.59	0.32	1400	29.44	15.21	3.51
6000	14.58	24.38	14.09	21.67	1.63	0.32	1450	29.78	15.31	3.54
6500	14.09	24.35	12.95	18.37	1.69	0.32	1500	29.36	15.19	3.59
7000	13.18	24.16	11.52	14.73	1.76	0.32	1550	29.73	15.39	3.57
7500	11.87	23.79	10.54	12.45	1.88	0.31	1600	29.66	15.18	3.56
8000	10.22	23.08	9.48	11.07	1.99	0.31	1650	30.14	15.41	3.51
9000	6.68	20.88	7.36	9.07	2.05	0.33	1700	30.41	15.22	3.52
10000	3.90	17.94	6.60	8.68	1.89	0.32	1750	30.36	15.30	3.56
11000	2.14	14.63	6.88	9.45	1.63	0.30	1800	30.33	15.18	3.53
12000	1.03	11.16	8.02	10.90	1.38	0.32	1850	30.15	15.34	3.46
13000	0.37	7.23	10.71	14.88	1.18	0.43	1900	29.88	15.31	3.51
14000	-0.95	4.80	7.39	9.38	1.06	0.62	1950	30.02	15.40	3.51
15000	-4.19	5.74	3.77	4.25	1.06	0.69	2000	29.69	15.28	3.41

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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 = 40mA, Vd = 4.17V @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	22.03	25.25	33.40	25.00	1.07	0.69	50	26.66	13.42	3.14
100	22.05	25.12	35.84	23.83	1.06	0.70	100	26.83	13.47	3.41
200	21.93	25.27	40.61	22.79	1.07	0.68	150	27.14	13.44	3.27
400	21.70	25.20	31.96	23.03	1.08	0.67	200	26.94	13.36	3.16
600	21.45	25.14	29.76	21.84	1.08	0.65	250	26.37	13.48	3.24
800	21.12	25.13	27.73	21.25	1.10	0.63	300	26.95	13.43	3.41
1000	20.76	25.04	26.16	20.70	1.11	0.61	350	26.97	13.66	3.27
1200	20.36	24.99	25.16	20.30	1.13	0.58	400	26.29	13.37	3.30
1400	20.00	24.93	23.64	19.83	1.15	0.56	450	26.50	13.37	3.31
1600	19.60	24.85	22.43	19.53	1.17	0.54	500	26.28	13.42	3.38
1800	19.21	24.77	21.01	19.18	1.18	0.52	550	26.46	13.05	3.44
2000	18.81	24.69	19.94	18.92	1.20	0.50	600	26.28	13.27	3.27
2200	18.43	24.68	18.75	18.82	1.23	0.47	650	26.40	13.32	3.30
2400	18.04	24.56	17.98	18.73	1.25	0.46	700	26.69	13.28	3.38
2600	17.68	24.57	17.32	18.60	1.28	0.44	750	26.36	13.19	3.40
2800	17.37	24.49	16.51	18.58	1.30	0.42	800	27.01	13.28	3.33
3000	17.05	24.41	15.88	18.55	1.32	0.41	850	26.37	13.27	3.30
3200	16.74	24.40	15.35	18.86	1.35	0.39	900	27.10	13.45	3.38
3400	16.47	24.37	14.72	18.97	1.37	0.38	950	26.52	13.30	3.45
3600	16.21	24.35	14.15	19.44	1.39	0.37	1000	26.95	13.26	3.33
3800	15.97	24.30	13.70	20.05	1.41	0.36	1050	26.72	13.25	3.25
4000	15.73	24.28	13.49	20.72	1.44	0.36	1100	26.79	12.94	3.35
4200	15.53	24.28	13.35	21.47	1.46	0.35	1150	26.96	13.20	3.44
4400	15.38	24.30	13.20	22.31	1.49	0.34	1200	26.78	12.52	3.40
4600	15.20	24.24	13.23	23.15	1.50	0.34	1250	27.12	12.94	3.27
4800	15.06	24.23	13.27	23.50	1.52	0.33	1300	26.74	12.72	3.40
5000	14.96	24.27	13.25	23.95	1.54	0.33	1350	27.07	12.84	3.47
5500	14.67	24.28	13.47	25.04	1.59	0.32	1400	26.47	12.68	3.46
6000	14.36	24.33	13.28	23.96	1.65	0.31	1450	26.88	12.98	3.52
6500	13.85	24.29	12.27	19.78	1.70	0.31	1500	26.47	12.72	3.52
7000	12.95	24.04	11.03	15.61	1.77	0.31	1550	26.87	12.95	3.51
7500	11.65	23.65	10.20	13.12	1.89	0.31	1600	26.75	12.71	3.53
8000	10.00	22.97	9.28	11.60	2.01	0.30	1650	27.29	12.90	3.49
9000	6.52	20.83	7.27	9.47	2.08	0.32	1700	27.41	12.80	3.48
10000	3.76	17.95	6.55	9.06	1.92	0.31	1750	27.51	12.96	3.49
11000	2.01	14.68	6.80	9.78	1.65	0.29	1800	27.37	12.77	3.47
12000	0.91	11.25	7.93	11.15	1.41	0.31	1850	27.46	12.89	3.45
13000	0.27	7.30	10.56	14.98	1.19	0.42	1900	27.14	12.84	3.48
14000	-1.04	4.82	7.33	9.47	1.06	0.62	1950	27.53	12.89	3.43
15000	-4.25	5.75	3.76	4.28	1.07	0.68	2000	26.94	12.89	3.35

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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 = 60mA, Vd = 4.24V @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	22.75	25.94	27.88	17.53	1.06	0.70	50	32.35	17.43	3.26
100	22.70	26.12	26.35	17.38	1.07	0.68	100	32.57	17.44	3.56
200	22.59	25.98	25.14	16.80	1.07	0.68	150	33.00	17.41	3.38
400	22.36	25.95	27.60	17.25	1.08	0.67	200	32.75	17.42	3.21
600	22.03	25.84	28.75	17.22	1.09	0.65	250	31.91	17.38	3.34
800	21.69	25.79	30.74	17.20	1.10	0.63	300	32.80	17.32	3.55
1000	21.31	25.70	33.44	17.38	1.12	0.60	350	32.73	17.50	3.40
1200	20.91	25.59	34.23	17.34	1.13	0.58	400	32.02	17.40	3.33
1400	20.49	25.51	31.78	17.32	1.15	0.56	450	32.14	17.22	3.36
1600	20.07	25.46	29.19	17.26	1.18	0.54	500	31.85	17.32	3.53
1800	19.64	25.31	26.53	17.30	1.20	0.52	550	32.07	17.17	3.54
2000	19.25	25.23	24.39	17.30	1.22	0.50	600	31.80	17.16	3.34
2200	18.84	25.14	22.82	17.46	1.24	0.48	650	31.99	17.15	3.36
2400	18.45	25.04	21.42	17.63	1.27	0.46	700	32.09	17.15	3.53
2600	18.09	24.96	20.37	17.70	1.29	0.44	750	31.94	17.14	3.53
2800	17.74	24.88	19.41	17.86	1.31	0.43	800	32.44	17.14	3.40
3000	17.41	24.78	18.39	18.01	1.33	0.41	850	31.90	17.12	3.35
3200	17.11	24.76	17.59	18.46	1.36	0.40	900	32.48	17.00	3.52
3400	16.82	24.66	16.82	18.75	1.38	0.39	950	31.91	17.10	3.58
3600	16.56	24.58	16.06	19.31	1.39	0.38	1000	32.24	17.11	3.39
3800	16.30	24.57	15.51	20.03	1.42	0.37	1050	31.92	17.04	3.33
4000	16.09	24.56	15.16	20.77	1.45	0.36	1100	32.11	16.97	3.50
4200	15.89	24.50	14.92	21.46	1.47	0.36	1150	32.04	16.95	3.58
4400	15.72	24.50	14.79	22.10	1.49	0.35	1200	31.99	16.78	3.47
4600	15.56	24.48	14.76	22.49	1.51	0.34	1250	32.14	16.79	3.34
4800	15.42	24.45	14.77	22.49	1.52	0.34	1300	31.75	16.89	3.54
5000	15.30	24.45	14.82	22.45	1.54	0.34	1350	31.83	16.81	3.59
5500	15.03	24.46	15.02	22.07	1.58	0.33	1400	31.34	16.78	3.57
6000	14.75	24.44	14.71	20.38	1.62	0.32	1450	31.60	16.81	3.58
6500	14.27	24.43	13.44	17.51	1.67	0.32	1500	31.20	16.74	3.62
7000	13.38	24.20	11.85	14.17	1.74	0.32	1550	31.53	16.78	3.65
7500	12.05	23.82	10.76	12.02	1.85	0.32	1600	31.54	16.78	3.62
8000	10.40	23.14	9.63	10.71	1.96	0.32	1650	32.11	16.76	3.54
9000	6.82	20.91	7.42	8.80	2.02	0.33	1700	32.25	16.72	3.60
10000	4.01	17.93	6.64	8.43	1.86	0.33	1750	31.99	16.68	3.65
11000	2.24	14.58	6.92	9.22	1.60	0.31	1800	31.95	16.67	3.61
12000	1.12	11.10	8.10	10.70	1.37	0.33	1850	31.59	16.71	3.51
13000	0.46	7.17	10.83	14.75	1.17	0.44	1900	31.43	16.70	3.59
14000	-0.89	4.77	7.45	9.31	1.06	0.63	1950	31.35	16.75	3.59
15000	-4.14	5.73	3.79	4.24	1.06	0.69	2000	31.26	16.62	3.48

REV. X1
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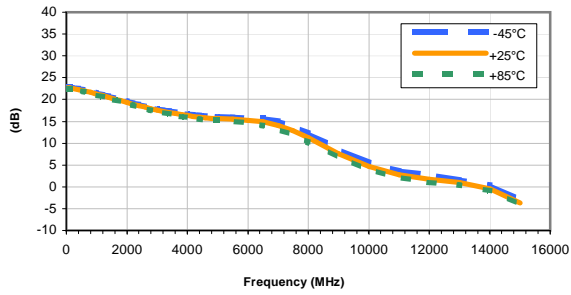
The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see



Typical Performance Curves

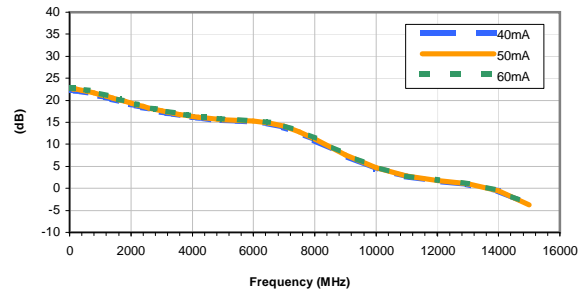
GAIN vs. TEMPERATURE

INPUT POWER = -25dBm, CURRENT = 50mA



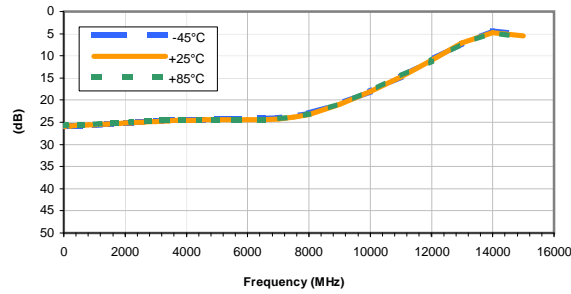
GAIN vs. CURRENT

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



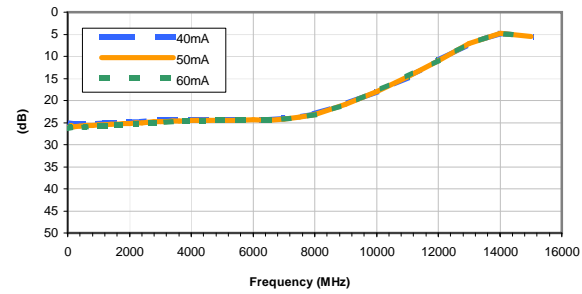
ISOLATION vs. TEMPERATURE

INPUT POWER = -25dBm, CURRENT = 50mA



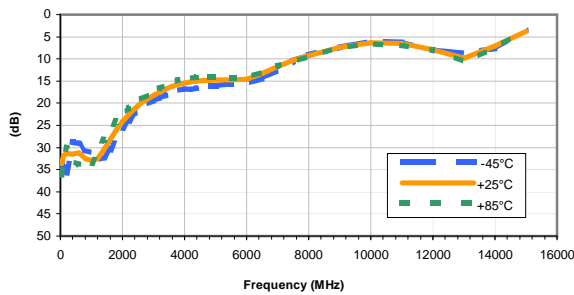
ISOLATION vs. CURRENT

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



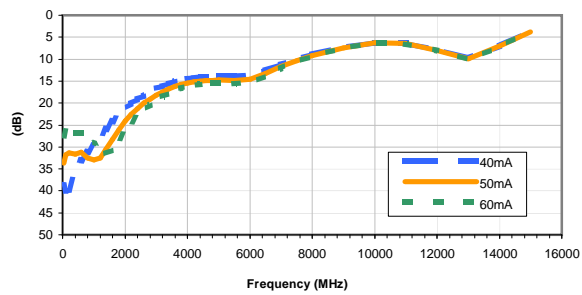
INPUT RETURN LOSS vs. TEMPERATURE

INPUT POWER = -25dBm, CURRENT = 50mA



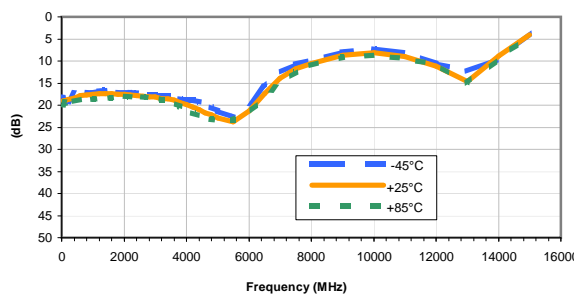
INPUT RETURN LOSS vs. CURRENT

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



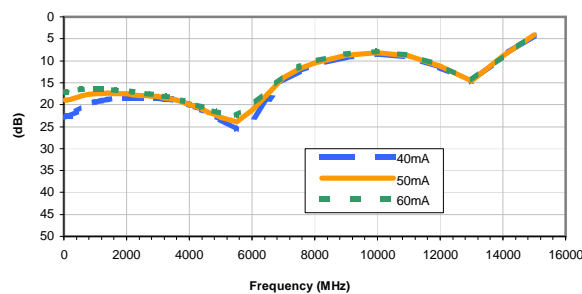
OUTPUT RETURN LOSS vs. TEMPERATURE

INPUT POWER = -25dBm, CURRENT = 50mA



OUTPUT RETURN LOSS vs. CURRENT

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



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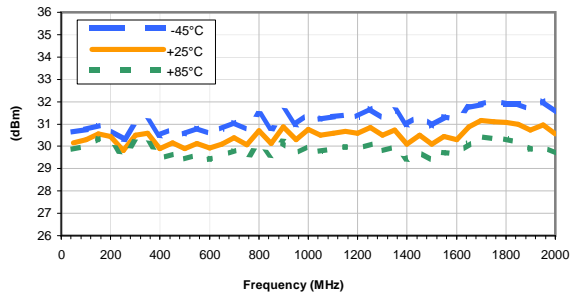
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Typical Performance Curves

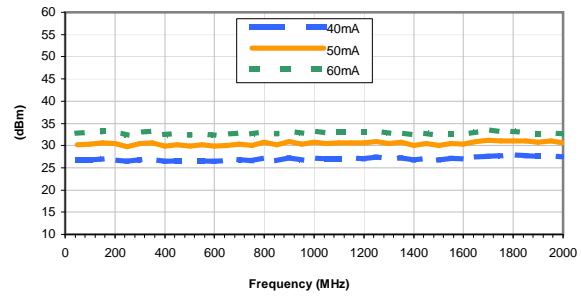
OUTPUT IP3 vs. TEMPERATURE

INPUT POWER = -25dBm, CURRENT = 50mA



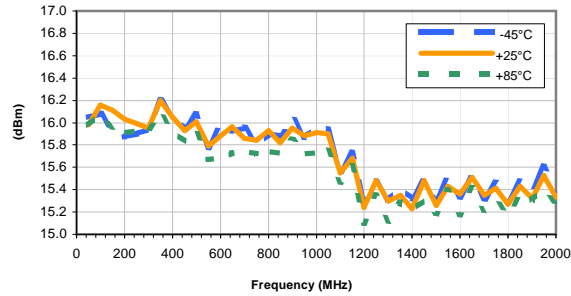
OUTPUT IP3 vs. CURRENT

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



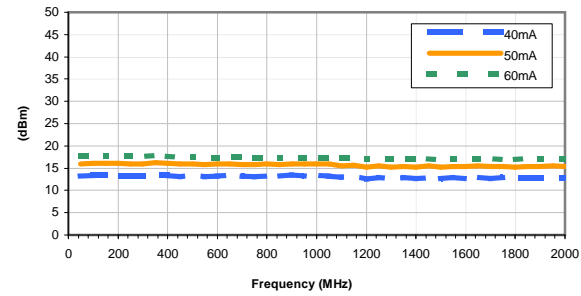
OUTPUT POWER at 1dB Compression vs. TEMPERATURE

CURRENT = 50mA



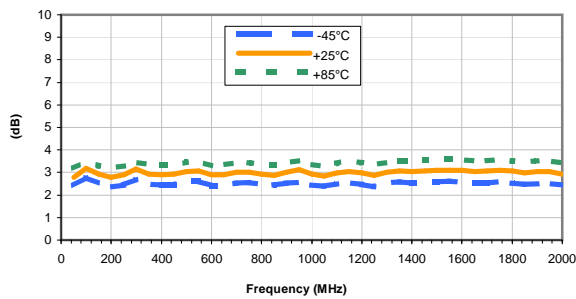
OUTPUT POWER at 1dB Compression vs. CURRENT

Temperature = +25°C



Noise Figure vs. TEMPERATURE

CURRENT = 50mA



Noise Figure vs. CURRENT

Temperature = +25°C

