

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: I_{cc} = 40mA, V_d = 4.23V @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	20.21	23.30	39.24	32.51	1.06	0.70	50	28.76	15.39	3.14
100	20.20	23.28	39.64	31.50	1.06	0.70	100	28.42	15.39	3.06
200	20.13	23.26	39.01	30.86	1.06	0.70	200	28.92	15.42	3.09
300	20.07	23.26	36.15	29.48	1.07	0.69	300	29.23	15.36	3.19
400	20.01	23.17	35.87	28.21	1.07	0.69	400	28.88	15.23	3.25
500	19.90	23.18	33.97	27.47	1.07	0.69	500	28.53	15.30	3.11
600	19.81	23.15	33.16	26.33	1.07	0.68	600	28.88	15.40	3.21
700	19.71	23.11	32.21	25.79	1.07	0.67	700	29.55	15.43	3.12
800	19.59	23.10	31.50	24.95	1.08	0.67	800	29.49	15.41	3.16
900	19.44	23.09	30.96	24.47	1.08	0.66	900	29.48	15.45	3.14
1000	19.29	23.06	30.52	23.84	1.09	0.65	1000	29.30	15.40	3.07
1100	19.14	23.03	30.32	23.46	1.10	0.64	1100	29.52	14.99	3.00
1200	18.99	22.97	29.74	23.22	1.10	0.63	1200	29.39	15.21	3.05
1300	18.81	22.95	29.78	22.80	1.11	0.62	1300	29.73	15.25	3.16
1400	18.66	22.89	29.88	22.62	1.11	0.61	1400	29.63	15.38	3.11
1500	18.49	22.85	30.20	22.47	1.12	0.60	1500	29.26	15.08	3.00
1600	18.30	22.80	30.08	22.39	1.13	0.59	1600	30.19	14.97	3.09
1800	17.94	22.74	30.30	22.15	1.15	0.57	1700	30.74	15.44	3.26
2000	17.59	22.61	31.58	22.36	1.16	0.56	1800	31.06	15.03	3.09
2200	17.21	22.51	31.30	22.32	1.18	0.54	1900	30.68	15.39	3.08
2400	16.85	22.38	33.22	22.51	1.20	0.53	2000	30.91	15.42	3.13
2600	16.48	22.29	33.81	22.82	1.23	0.51	2100	30.82	15.45	3.18
2800	16.13	22.21	35.56	22.94	1.25	0.50	2200	30.75	15.27	3.19
3000	15.79	22.06	38.57	23.22	1.27	0.49	2300	31.15	15.14	3.03
3200	15.44	21.96	37.87	23.41	1.29	0.47	2400	31.41	15.14	2.95
3400	15.12	21.83	38.55	23.25	1.31	0.46	2500	30.85	15.05	3.00
3600	14.79	21.72	34.83	23.39	1.33	0.45	2600	31.12	15.02	3.07
3800	14.45	21.61	32.67	22.69	1.35	0.44	2700	30.18	14.90	3.07
4000	14.14	21.55	30.49	22.19	1.38	0.43	2800	30.11	14.65	3.10
4500	13.30	21.50	27.02	20.18	1.47	0.39	2900	30.03	14.36	3.18
5000	12.64	21.45	23.25	18.76	1.54	0.37	3000	30.13	14.39	3.17
5500	12.14	21.47	20.06	17.51	1.61	0.35	3100	29.98	14.11	3.16
6000	11.77	21.35	17.12	17.48	1.64	0.35	3200	29.88	13.95	3.12
6500	11.52	21.24	14.93	18.21	1.64	0.35	3300	29.24	13.95	3.15
7000	11.31	21.24	13.42	18.72	1.66	0.34	3400	29.21	13.85	3.20
8000	10.83	20.79	10.38	21.24	1.59	0.33	3500	28.60	13.53	3.16
9000	9.87	20.13	8.00	18.35	1.50	0.31	3600	28.98	13.31	3.19
10000	8.22	19.42	6.04	14.71	1.44	0.27	3700	28.14	13.43	3.18
11000	6.30	18.70	4.85	11.23	1.37	0.24	3800	27.48	13.21	3.20
12000	4.26	18.01	4.04	8.29	1.25	0.24	3900	27.32	12.72	3.22
13000	2.03	17.91	3.47	6.18	1.16	0.25	4000	27.77	12.88	3.29

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Page 1 of 11



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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 = 32mA, Vd = 4.19V @ 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	19.86	22.75	29.02	41.16	1.05	0.72	50	25.42	12.86	3.07
100	19.84	22.97	28.35	40.09	1.06	0.70	100	25.14	12.98	3.05
200	19.82	22.97	28.74	37.33	1.07	0.70	200	25.57	12.97	3.08
300	19.74	22.97	28.77	33.74	1.07	0.69	300	25.80	12.89	3.19
400	19.67	22.89	28.96	32.10	1.07	0.69	400	25.60	12.77	3.19
500	19.61	22.94	28.55	30.40	1.07	0.68	500	25.30	12.91	3.06
600	19.49	22.89	29.24	28.95	1.08	0.68	600	25.56	13.07	3.12
700	19.39	22.89	28.66	28.09	1.08	0.67	700	26.19	13.08	3.07
800	19.28	22.84	28.46	27.39	1.08	0.66	800	26.27	13.07	3.13
900	19.16	22.82	28.39	26.76	1.09	0.66	900	26.09	13.09	3.12
1000	19.03	22.81	28.74	26.05	1.09	0.65	1000	26.07	13.01	3.03
1100	18.86	22.74	28.65	25.52	1.10	0.64	1100	26.13	12.55	2.97
1200	18.73	22.73	28.27	25.14	1.10	0.63	1200	25.90	12.74	3.04
1300	18.57	22.68	28.66	24.78	1.11	0.62	1300	26.35	12.71	3.14
1400	18.40	22.66	28.74	24.51	1.12	0.61	1400	26.51	12.83	3.07
1500	18.25	22.60	29.24	24.45	1.12	0.60	1500	26.19	12.68	2.96
1600	18.04	22.59	29.17	24.15	1.13	0.59	1600	27.13	12.65	3.05
1800	17.70	22.53	29.56	23.99	1.15	0.57	1700	27.42	13.20	3.21
2000	17.38	22.42	30.36	24.17	1.17	0.56	1800	27.76	12.71	3.04
2200	16.98	22.33	30.23	24.05	1.19	0.54	1900	27.50	13.08	3.02
2400	16.65	22.25	31.09	24.35	1.21	0.52	2000	27.56	13.25	3.07
2600	16.29	22.16	30.66	24.50	1.23	0.51	2100	28.16	13.30	3.14
2800	15.92	22.06	31.35	24.56	1.26	0.49	2200	28.02	13.25	3.14
3000	15.60	21.92	31.26	24.92	1.27	0.48	2300	28.24	13.23	2.98
3200	15.27	21.85	30.53	25.05	1.30	0.47	2400	28.22	13.29	2.90
3400	14.93	21.74	30.77	24.67	1.32	0.46	2500	27.92	13.23	2.97
3600	14.60	21.65	28.59	24.64	1.34	0.45	2600	28.48	13.30	3.02
3800	14.29	21.61	27.59	23.91	1.37	0.43	2700	28.16	13.15	3.02
4000	13.96	21.54	26.98	23.13	1.40	0.42	2800	27.79	13.03	3.04
4500	13.14	21.49	24.68	20.86	1.49	0.39	2900	28.05	12.88	3.11
5000	12.48	21.48	21.80	19.23	1.57	0.36	3000	27.98	13.05	3.11
5500	11.96	21.57	18.98	17.93	1.65	0.34	3100	27.74	12.86	3.10
6000	11.59	21.46	16.30	18.03	1.68	0.34	3200	27.98	12.85	3.05
6500	11.34	21.44	14.19	19.02	1.70	0.33	3300	27.76	12.86	3.08
7000	11.11	21.47	12.74	19.73	1.72	0.33	3400	27.57	12.80	3.14
8000	10.60	21.10	9.91	23.59	1.66	0.31	3500	26.94	12.51	3.11
9000	9.61	20.41	7.65	19.45	1.55	0.28	3600	27.35	12.36	3.15
10000	7.91	19.67	5.82	15.08	1.48	0.24	3700	26.75	12.45	3.12
11000	5.97	18.90	4.70	11.37	1.41	0.22	3800	27.04	12.22	3.11
12000	3.90	18.15	3.93	8.31	1.28	0.22	3900	26.55	11.83	3.14
13000	1.63	18.00	3.40	6.12	1.19	0.25	4000	26.49	12.09	3.21

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Page 2 of 11



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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 = 48mA, Vd = 4.27V @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	20.42	23.47	39.71	26.99	1.06	0.70	50	31.59	16.88	3.24
100	20.41	23.47	37.71	26.26	1.06	0.70	100	31.20	16.81	3.11
200	20.34	23.46	36.10	26.10	1.06	0.70	200	31.84	16.99	3.15
300	20.29	23.41	34.63	25.90	1.06	0.70	300	32.09	16.93	3.24
400	20.20	23.40	33.24	25.00	1.07	0.69	400	31.63	16.83	3.31
500	20.11	23.37	32.09	24.64	1.07	0.69	500	31.23	16.93	3.16
600	20.00	23.36	31.43	24.08	1.07	0.68	600	31.34	16.91	3.28
700	19.89	23.34	30.55	23.67	1.08	0.67	700	32.19	16.97	3.20
800	19.78	23.30	29.93	23.09	1.08	0.67	800	32.23	16.98	3.24
900	19.62	23.29	29.43	22.68	1.08	0.65	900	32.11	16.90	3.21
1000	19.47	23.24	29.12	22.35	1.09	0.65	1000	32.05	16.94	3.13
1100	19.32	23.18	28.82	22.02	1.09	0.64	1100	32.17	16.57	3.04
1200	19.16	23.16	28.43	21.76	1.10	0.63	1200	31.77	16.87	3.09
1300	18.99	23.11	28.41	21.52	1.11	0.62	1300	31.95	16.82	3.19
1400	18.83	23.05	28.46	21.38	1.11	0.61	1400	32.07	16.85	3.15
1500	18.65	23.02	28.59	21.17	1.12	0.60	1500	31.42	16.58	3.06
1600	18.46	22.97	28.45	21.17	1.13	0.59	1600	32.58	16.45	3.14
1800	18.11	22.88	28.59	21.08	1.14	0.57	1700	32.93	16.86	3.33
2000	17.75	22.74	29.87	21.17	1.16	0.56	1800	33.24	16.41	3.17
2200	17.35	22.68	29.67	21.20	1.18	0.54	1900	32.73	16.68	3.16
2400	17.00	22.51	31.41	21.49	1.20	0.53	2000	32.69	16.61	3.19
2600	16.62	22.40	32.39	21.78	1.22	0.51	2100	32.63	16.53	3.26
2800	16.27	22.32	33.79	21.95	1.24	0.50	2200	32.40	16.28	3.23
3000	15.93	22.16	38.99	22.28	1.26	0.49	2300	32.62	15.99	3.09
3200	15.58	22.03	42.37	22.55	1.28	0.48	2400	32.63	15.97	3.00
3400	15.25	21.90	51.44	22.46	1.30	0.46	2500	32.01	15.88	3.07
3600	14.92	21.82	44.62	22.59	1.33	0.45	2600	32.09	15.86	3.12
3800	14.58	21.70	36.11	21.97	1.35	0.44	2700	31.38	15.76	3.12
4000	14.27	21.62	33.82	21.66	1.37	0.43	2800	31.10	15.47	3.17
4500	13.43	21.53	28.10	19.76	1.45	0.40	2900	31.09	15.12	3.24
5000	12.77	21.43	24.11	18.45	1.52	0.38	3000	30.80	15.07	3.23
5500	12.27	21.41	20.90	17.28	1.58	0.36	3100	30.36	14.76	3.22
6000	11.90	21.24	17.86	17.13	1.60	0.36	3200	29.82	14.59	3.17
6500	11.68	21.11	15.60	17.71	1.61	0.36	3300	29.92	14.55	3.20
7000	11.45	21.05	14.03	18.00	1.62	0.36	3400	29.61	14.50	3.26
8000	11.02	20.59	10.86	19.80	1.55	0.35	3500	29.15	14.19	3.22
9000	10.11	19.91	8.32	17.41	1.46	0.33	3600	29.19	13.96	3.27
10000	8.50	19.24	6.27	14.24	1.40	0.29	3700	28.09	14.04	3.25
11000	6.59	18.53	5.00	10.99	1.33	0.26	3800	28.06	13.76	3.26
12000	4.55	17.87	4.15	8.21	1.22	0.25	3900	27.86	13.30	3.29
13000	2.39	17.80	3.53	6.18	1.12	0.26	4000	28.05	13.52	3.35

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Page 3 of 11



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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 = 4.46V @ 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	20.34	23.33	40.14	31.92	1.06	0.71	50	29.21	15.45	2.73
100	20.34	23.25	36.08	32.10	1.06	0.72	100	28.95	15.50	2.64
200	20.29	23.34	34.19	32.84	1.06	0.70	200	29.44	15.49	2.64
300	20.23	23.28	34.95	29.02	1.06	0.70	300	29.82	15.45	2.73
400	20.17	23.30	36.19	26.20	1.06	0.70	400	29.52	15.36	2.77
500	20.08	23.24	34.29	25.78	1.06	0.69	500	29.34	15.48	2.61
600	19.97	23.21	34.16	25.08	1.07	0.69	600	29.60	15.56	2.69
700	19.88	23.19	33.36	24.56	1.07	0.68	700	30.25	15.55	2.62
800	19.77	23.17	31.63	24.22	1.07	0.67	800	30.27	15.57	2.66
900	19.63	23.16	30.39	24.02	1.08	0.66	900	30.24	15.43	2.63
1000	19.48	23.13	30.36	23.53	1.08	0.66	1000	30.12	15.46	2.58
1100	19.34	23.06	30.48	22.95	1.09	0.65	1100	30.12	15.07	2.49
1200	19.18	23.05	29.30	22.56	1.09	0.64	1200	29.94	15.29	2.55
1300	19.01	23.00	28.92	22.46	1.10	0.63	1300	30.28	15.35	2.64
1400	18.87	22.94	28.84	22.45	1.10	0.62	1400	30.45	15.45	2.59
1500	18.70	22.93	28.76	22.36	1.11	0.61	1500	30.11	15.19	2.45
1600	18.51	22.85	28.87	22.09	1.12	0.60	1600	30.83	15.13	2.55
1800	18.15	22.76	28.57	21.95	1.13	0.59	1700	31.17	15.63	2.73
2000	17.82	22.63	28.83	22.25	1.15	0.57	1800	31.47	15.22	2.55
2200	17.44	22.54	29.59	21.66	1.17	0.55	1900	31.45	15.58	2.53
2400	17.09	22.40	31.25	21.90	1.18	0.54	2000	31.76	15.63	2.57
2600	16.72	22.35	34.83	21.50	1.21	0.52	2100	31.97	15.71	2.65
2800	16.39	22.21	36.71	22.12	1.23	0.51	2200	32.17	15.66	2.64
3000	16.05	22.06	38.89	22.91	1.24	0.50	2300	31.71	15.60	2.50
3200	15.70	21.97	39.58	22.84	1.27	0.48	2400	32.12	15.62	2.39
3400	15.38	21.83	50.08	22.96	1.28	0.48	2500	31.54	15.59	2.45
3600	15.05	21.76	49.77	23.14	1.31	0.46	2600	32.88	15.58	2.51
3800	14.75	21.61	38.47	22.77	1.32	0.45	2700	31.60	15.45	2.49
4000	14.39	21.55	36.93	21.77	1.35	0.44	2800	31.44	15.30	2.55
4500	13.62	21.40	29.24	19.74	1.42	0.41	2900	31.64	15.07	2.60
5000	12.93	21.42	24.74	18.00	1.50	0.38	3000	31.88	15.10	2.60
5500	12.48	21.28	20.84	17.24	1.53	0.38	3100	30.98	14.83	2.58
6000	12.12	21.14	18.70	17.27	1.56	0.37	3200	30.92	14.76	2.54
6500	11.86	21.06	16.26	17.40	1.58	0.37	3300	31.13	14.74	2.60
7000	11.70	21.00	14.34	17.66	1.58	0.37	3400	30.98	14.65	2.61
8000	11.35	20.63	11.24	20.11	1.52	0.36	3500	30.29	14.36	2.60
9000	10.56	19.83	8.80	18.67	1.42	0.35	3600	30.25	14.15	2.60
10000	9.02	19.17	6.23	13.91	1.34	0.33	3700	29.42	14.26	2.60
11000	6.98	18.60	4.76	10.35	1.25	0.28	3800	29.07	14.01	2.62
12000	5.29	17.75	4.20	8.46	1.13	0.24	3900	28.96	13.57	2.64
13000	3.38	17.35	3.34	6.37	0.95	0.27	4000	29.19	13.80	2.69

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Page 4 of 11



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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 = 32mA, Vd = 4.42V @ 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	20.05	23.01	29.29	44.04	1.06	0.71	50	25.76	12.98	2.64
100	20.06	23.10	28.71	42.91	1.06	0.70	100	25.43	13.15	2.61
200	20.02	23.10	27.84	37.50	1.06	0.70	200	25.83	13.05	2.60
300	19.97	23.07	29.31	33.14	1.06	0.70	300	26.22	13.08	2.64
400	19.89	23.06	32.56	30.20	1.07	0.69	400	26.06	12.96	2.72
500	19.82	23.01	32.32	29.16	1.07	0.69	500	25.77	13.09	2.55
600	19.71	23.00	31.67	28.27	1.07	0.68	600	26.08	13.18	2.63
700	19.60	22.97	31.35	27.05	1.07	0.68	700	26.72	13.18	2.55
800	19.50	22.96	30.03	26.70	1.08	0.67	800	26.79	13.20	2.61
900	19.37	22.95	29.68	26.36	1.08	0.66	900	26.57	13.18	2.59
1000	19.24	22.91	29.62	25.53	1.09	0.65	1000	26.48	13.12	2.54
1100	19.10	22.88	29.47	24.74	1.09	0.65	1100	26.63	12.71	2.47
1200	18.94	22.82	29.04	24.34	1.10	0.64	1200	26.44	12.92	2.52
1300	18.79	22.80	29.21	24.34	1.10	0.63	1300	26.77	12.93	2.61
1400	18.64	22.74	28.98	24.32	1.11	0.62	1400	27.01	13.01	2.56
1500	18.48	22.71	29.23	24.07	1.11	0.61	1500	26.66	12.80	2.42
1600	18.30	22.65	29.34	23.72	1.12	0.60	1600	27.60	12.76	2.50
1800	17.96	22.59	28.98	23.56	1.14	0.59	1700	27.93	13.38	2.67
2000	17.63	22.45	29.85	23.88	1.15	0.57	1800	28.26	12.91	2.50
2200	17.25	22.40	31.21	23.14	1.17	0.55	1900	28.25	13.31	2.48
2400	16.93	22.24	33.82	23.41	1.19	0.54	2000	28.30	13.39	2.53
2600	16.56	22.20	37.25	22.81	1.21	0.52	2100	28.62	13.46	2.58
2800	16.22	22.10	36.49	23.55	1.23	0.51	2200	28.66	13.48	2.59
3000	15.90	21.96	35.34	24.38	1.25	0.50	2300	28.78	13.54	2.44
3200	15.54	21.90	35.72	24.19	1.28	0.48	2400	29.15	13.63	2.36
3400	15.23	21.72	37.11	24.36	1.29	0.47	2500	29.00	13.67	2.42
3600	14.89	21.68	34.62	24.23	1.32	0.46	2600	29.02	13.70	2.48
3800	14.59	21.56	31.84	23.78	1.34	0.45	2700	28.61	13.61	2.44
4000	14.23	21.55	31.45	22.56	1.37	0.43	2800	28.66	13.45	2.49
4500	13.48	21.40	27.74	20.26	1.44	0.41	2900	29.00	13.35	2.53
5000	12.79	21.42	23.83	18.41	1.52	0.38	3000	28.91	13.50	2.55
5500	12.33	21.33	19.94	17.70	1.56	0.37	3100	28.93	13.44	2.53
6000	11.97	21.22	17.84	17.77	1.59	0.36	3200	29.10	13.49	2.49
6500	11.72	21.22	15.47	17.97	1.62	0.36	3300	28.70	13.57	2.52
7000	11.53	21.19	13.67	18.43	1.62	0.35	3400	28.90	13.48	2.57
8000	11.16	20.88	10.69	21.87	1.57	0.34	3500	28.42	13.21	2.53
9000	10.33	20.09	8.38	19.88	1.46	0.33	3600	28.46	13.03	2.56
10000	8.77	19.39	5.99	14.48	1.37	0.31	3700	27.95	13.23	2.55
11000	6.69	18.80	4.60	10.58	1.28	0.26	3800	27.69	13.02	2.56
12000	4.99	17.87	4.09	8.53	1.15	0.23	3900	27.56	12.65	2.57
13000	3.03	17.47	3.26	6.37	0.97	0.26	4000	27.56	12.87	2.60

REV. X1

ERA-33SM+

120119

Page 5 of 11



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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 = 48mA, Vd = 4.49V @ 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)			(MHz)	(dBm)	(dBm)	(dB)
50	20.52	23.22	40.19	26.82	1.05	0.73	50	32.15	17.20	2.83
100	20.52	23.44	43.59	27.46	1.06	0.71	100	31.60	17.14	2.70
200	20.47	23.45	37.71	27.86	1.06	0.71	200	32.35	17.22	2.70
300	20.40	23.42	34.27	25.74	1.06	0.71	300	32.57	17.18	2.76
400	20.34	23.46	32.14	23.90	1.06	0.70	400	32.45	17.10	2.82
500	20.25	23.42	31.06	23.50	1.06	0.69	500	32.13	17.23	2.68
600	20.14	23.43	30.93	23.17	1.07	0.69	600	32.21	17.22	2.76
700	20.04	23.37	30.82	22.80	1.07	0.68	700	33.23	17.28	2.67
800	19.93	23.36	29.76	22.65	1.07	0.67	800	32.99	17.26	2.71
900	19.79	23.34	28.78	22.50	1.08	0.66	900	33.13	17.13	2.70
1000	19.64	23.26	28.74	22.13	1.08	0.66	1000	32.90	17.18	2.64
1100	19.49	23.24	28.95	21.74	1.09	0.65	1100	32.81	16.82	2.54
1200	19.34	23.20	28.00	21.41	1.09	0.64	1200	32.79	17.12	2.58
1300	19.16	23.16	27.50	21.27	1.10	0.63	1300	33.59	17.11	2.67
1400	19.01	23.07	27.39	21.36	1.10	0.62	1400	33.16	17.15	2.63
1500	18.84	23.07	27.36	21.24	1.11	0.61	1500	32.80	16.89	2.52
1600	18.65	22.99	27.40	21.03	1.12	0.60	1600	33.34	16.78	2.62
1800	18.29	22.90	27.17	20.94	1.13	0.58	1700	33.81	17.23	2.78
2000	17.95	22.75	27.32	21.20	1.15	0.57	1800	34.47	16.84	2.63
2200	17.57	22.66	27.61	20.73	1.16	0.55	1900	34.00	17.16	2.59
2400	17.21	22.51	28.65	20.95	1.18	0.54	2000	34.04	17.15	2.65
2600	16.84	22.41	31.20	20.69	1.20	0.53	2100	33.96	17.13	2.70
2800	16.51	22.27	32.63	21.29	1.22	0.51	2200	34.01	16.96	2.69
3000	16.17	22.14	34.37	21.99	1.24	0.50	2300	34.17	16.72	2.54
3200	15.81	22.05	34.61	22.07	1.26	0.49	2400	34.28	16.69	2.44
3400	15.50	21.88	35.70	22.21	1.28	0.48	2500	33.35	16.64	2.52
3600	15.16	21.82	40.30	22.44	1.30	0.46	2600	34.02	16.64	2.57
3800	14.85	21.66	39.62	22.13	1.32	0.46	2700	33.46	16.53	2.56
4000	14.50	21.60	37.49	21.30	1.35	0.44	2800	33.41	16.32	2.60
4500	13.72	21.42	29.31	19.42	1.41	0.41	2900	33.11	15.99	2.67
5000	13.04	21.39	24.93	17.74	1.48	0.39	3000	32.74	15.95	2.68
5500	12.59	21.20	21.42	16.98	1.51	0.38	3100	32.12	15.64	2.67
6000	12.23	21.04	19.39	16.89	1.53	0.38	3200	31.74	15.47	2.61
6500	11.98	20.98	16.90	16.98	1.55	0.38	3300	31.50	15.47	2.65
7000	11.83	20.85	14.96	17.12	1.54	0.38	3400	31.31	15.36	2.69
8000	11.51	20.45	11.76	18.86	1.49	0.38	3500	30.97	15.07	2.64
9000	10.77	19.65	9.19	17.61	1.39	0.37	3600	30.39	14.89	2.65
10000	9.25	18.97	6.47	13.30	1.31	0.35	3700	30.26	14.92	2.65
11000	7.24	18.45	4.92	10.10	1.22	0.31	3800	29.50	14.71	2.68
12000	5.55	17.62	4.34	8.36	1.11	0.26	3900	29.27	14.26	2.72
13000	3.68	17.25	3.43	6.32	0.93	0.28	4000	29.57	14.44	2.76

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Page 6 of 11



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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: I_{cc} = 40mA, V_d = 4.05V @ 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	20.04	23.20	36.22	37.72	1.07	0.69	50	28.21	15.28	3.58
100	20.03	23.13	39.22	32.15	1.06	0.70	100	27.99	15.19	3.51
200	19.96	23.07	41.74	29.16	1.06	0.70	200	28.55	15.33	3.54
300	19.89	23.08	38.72	29.37	1.07	0.69	300	28.81	15.31	3.64
400	19.83	23.07	35.81	29.68	1.07	0.69	400	28.53	15.07	3.73
500	19.73	23.12	32.75	29.25	1.07	0.68	500	28.01	15.21	3.57
600	19.61	23.05	32.16	27.84	1.08	0.67	600	28.32	15.26	3.69
700	19.51	23.02	31.65	26.93	1.08	0.67	700	28.93	15.26	3.60
800	19.40	23.01	30.34	26.51	1.08	0.66	800	29.00	15.30	3.65
900	19.25	22.98	29.48	25.96	1.09	0.65	900	28.77	15.15	3.63
1000	19.08	22.95	28.73	25.42	1.10	0.64	1000	28.77	15.16	3.55
1100	18.94	22.93	28.39	24.95	1.10	0.63	1100	28.80	14.84	3.47
1200	18.78	22.89	27.84	24.38	1.11	0.62	1200	28.62	15.05	3.53
1300	18.60	22.84	27.75	24.19	1.11	0.61	1300	29.00	15.04	3.64
1400	18.45	22.81	27.67	23.98	1.12	0.60	1400	29.04	15.17	3.62
1500	18.27	22.76	28.25	23.61	1.13	0.59	1500	28.55	14.88	3.51
1600	18.07	22.71	28.22	23.29	1.14	0.58	1600	29.51	14.75	3.60
1800	17.70	22.63	28.78	22.94	1.16	0.56	1700	29.94	15.18	3.77
2000	17.35	22.49	30.69	22.79	1.17	0.55	1800	30.37	14.77	3.60
2200	16.96	22.44	31.75	22.42	1.20	0.53	1900	29.86	15.07	3.59
2400	16.60	22.33	33.39	22.64	1.22	0.52	2000	29.60	15.09	3.64
2600	16.22	22.26	33.88	22.75	1.25	0.50	2100	29.67	15.04	3.72
2800	15.87	22.16	34.31	23.13	1.27	0.48	2200	29.88	14.79	3.70
3000	15.51	22.04	32.47	23.84	1.29	0.47	2300	30.18	14.60	3.55
3200	15.16	21.93	31.82	23.99	1.31	0.46	2400	29.65	14.58	3.44
3400	14.82	21.83	31.05	24.31	1.34	0.45	2500	29.10	14.42	3.52
3600	14.48	21.78	30.06	24.41	1.37	0.43	2600	29.73	14.36	3.58
3800	14.17	21.65	28.96	23.96	1.39	0.42	2700	28.83	14.25	3.58
4000	13.80	21.62	28.17	22.86	1.43	0.41	2800	28.57	13.94	3.64
4500	13.01	21.53	24.47	20.68	1.51	0.38	2900	28.51	13.62	3.72
5000	12.31	21.56	21.19	18.63	1.60	0.35	3000	28.33	13.60	3.68
5500	11.77	21.49	17.83	17.71	1.66	0.34	3100	27.63	13.30	3.66
6000	11.39	21.43	15.49	17.95	1.70	0.34	3200	27.35	13.10	3.63
6500	11.10	21.55	14.05	19.43	1.75	0.32	3300	26.59	13.11	3.67
7000	10.86	21.49	12.44	21.30	1.76	0.31	3400	27.15	13.08	3.73
8000	10.32	21.21	9.81	25.76	1.71	0.29	3500	26.55	12.70	3.69
9000	9.08	20.49	7.43	18.23	1.63	0.26	3600	26.73	12.45	3.74
10000	7.25	19.76	5.78	14.49	1.58	0.22	3700	26.08	12.50	3.73
11000	5.40	18.85	4.91	11.51	1.51	0.19	3800	25.69	12.27	3.74
12000	3.26	18.24	4.07	8.22	1.42	0.22	3900	25.86	11.80	3.76
13000	0.78	18.08	3.42	6.01	1.31	0.25	4000	25.53	12.02	3.81

REV. X1

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Page 7 of 11



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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 = 32mA, Vd = 4.01V @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	19.66	22.75	26.80	32.61	1.06	0.70	50	25.08	12.86	3.50
100	19.65	22.87	27.81	35.99	1.07	0.69	100	24.78	12.92	3.45
200	19.61	22.78	29.88	36.88	1.07	0.69	200	25.38	12.99	3.50
300	19.54	22.83	28.81	34.09	1.07	0.68	300	25.54	12.95	3.60
400	19.46	22.81	28.08	32.33	1.07	0.68	400	25.25	12.80	3.65
500	19.38	22.83	26.68	30.28	1.08	0.67	500	24.93	12.86	3.49
600	19.27	22.73	26.92	28.82	1.08	0.67	600	25.13	12.97	3.61
700	19.19	22.76	26.91	28.01	1.08	0.66	700	25.76	12.98	3.54
800	19.06	22.72	26.39	27.55	1.09	0.66	800	25.73	12.96	3.59
900	18.93	22.70	25.92	26.98	1.09	0.65	900	25.70	12.95	3.58
1000	18.78	22.68	25.54	26.22	1.10	0.64	1000	25.52	12.88	3.50
1100	18.62	22.65	25.56	25.83	1.11	0.63	1100	25.65	12.42	3.43
1200	18.48	22.63	25.36	25.50	1.11	0.62	1200	25.46	12.53	3.50
1300	18.31	22.57	25.28	25.36	1.12	0.61	1300	25.80	12.57	3.61
1400	18.16	22.54	25.43	25.24	1.13	0.60	1400	26.01	12.79	3.57
1500	18.00	22.54	25.95	25.11	1.13	0.59	1500	25.47	12.59	3.47
1600	17.81	22.49	26.05	24.78	1.14	0.58	1600	26.49	12.49	3.52
1800	17.45	22.43	26.60	24.60	1.16	0.56	1700	26.73	13.10	3.69
2000	17.11	22.31	27.68	24.56	1.18	0.55	1800	27.31	12.69	3.53
2200	16.72	22.27	28.58	24.26	1.21	0.53	1900	27.00	13.06	3.52
2400	16.37	22.11	28.70	24.59	1.22	0.52	2000	27.04	13.16	3.57
2600	16.01	22.08	28.42	24.49	1.25	0.50	2100	27.42	13.23	3.65
2800	15.65	22.00	28.42	24.99	1.28	0.48	2200	27.41	13.11	3.63
3000	15.31	21.86	27.10	25.82	1.29	0.47	2300	27.90	13.02	3.49
3200	14.95	21.81	26.89	25.77	1.32	0.45	2400	27.66	13.04	3.39
3400	14.63	21.70	26.72	25.98	1.35	0.44	2500	27.28	12.89	3.47
3600	14.28	21.71	25.76	25.69	1.38	0.43	2600	27.72	12.93	3.53
3800	13.97	21.55	25.12	25.25	1.40	0.42	2700	27.08	12.82	3.52
4000	13.62	21.55	24.70	23.74	1.44	0.40	2800	26.74	12.60	3.57
4500	12.83	21.50	22.34	21.29	1.53	0.38	2900	26.85	12.48	3.62
5000	12.13	21.59	19.74	19.08	1.63	0.35	3000	27.06	12.50	3.59
5500	11.58	21.58	16.94	18.24	1.70	0.33	3100	26.32	12.29	3.60
6000	11.20	21.58	14.71	18.68	1.75	0.32	3200	26.56	12.20	3.56
6500	10.89	21.73	13.32	20.47	1.81	0.31	3300	26.63	12.15	3.60
7000	10.65	21.77	11.85	22.87	1.83	0.30	3400	26.08	12.10	3.66
8000	10.08	21.53	9.36	29.62	1.79	0.27	3500	25.83	11.82	3.66
9000	8.79	20.79	7.14	18.82	1.69	0.24	3600	25.55	11.57	3.67
10000	6.93	19.99	5.59	14.57	1.63	0.19	3700	25.14	11.67	3.66
11000	5.07	19.05	4.79	11.50	1.57	0.17	3800	25.15	11.47	3.66
12000	2.90	18.37	3.99	8.19	1.46	0.21	3900	24.88	11.06	3.68
13000	0.36	18.16	3.37	5.91	1.36	0.26	4000	24.75	11.24	3.74

REV. X1

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Page 8 of 11



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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 = 48mA, Vd = 4.09V @ 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	20.28	23.31	39.10	28.09	1.06	0.71	50	31.20	16.60	3.69
100	20.27	23.46	35.91	26.29	1.07	0.69	100	31.04	16.48	3.55
200	20.19	23.34	32.76	25.10	1.07	0.70	200	31.64	16.72	3.61
300	20.12	23.31	33.36	25.25	1.07	0.69	300	31.77	16.67	3.69
400	20.05	23.32	33.68	25.69	1.07	0.69	400	31.39	16.56	3.79
500	19.94	23.27	32.82	25.91	1.07	0.68	500	30.90	16.65	3.66
600	19.83	23.26	32.32	25.08	1.08	0.67	600	31.07	16.60	3.76
700	19.72	23.24	31.48	24.65	1.08	0.67	700	31.68	16.60	3.67
800	19.60	23.22	30.76	24.21	1.08	0.66	800	31.71	16.61	3.72
900	19.44	23.18	29.89	24.08	1.09	0.65	900	31.38	16.54	3.68
1000	19.28	23.14	29.21	23.68	1.09	0.64	1000	31.05	16.62	3.62
1100	19.13	23.11	28.90	23.26	1.10	0.63	1100	31.44	16.25	3.52
1200	18.95	23.07	28.17	22.99	1.11	0.62	1200	30.73	16.54	3.58
1300	18.78	23.04	28.05	22.76	1.11	0.61	1300	30.95	16.49	3.71
1400	18.62	22.99	27.92	22.54	1.12	0.60	1400	31.03	16.48	3.66
1500	18.44	22.94	28.29	22.31	1.13	0.59	1500	29.95	16.16	3.57
1600	18.25	22.88	28.13	22.00	1.14	0.58	1600	31.02	15.95	3.67
1800	17.88	22.80	28.52	21.67	1.15	0.56	1700	31.48	16.30	3.84
2000	17.50	22.66	30.46	21.59	1.17	0.55	1800	31.04	15.84	3.66
2200	17.11	22.57	31.10	21.25	1.19	0.53	1900	30.66	16.06	3.64
2400	16.75	22.44	33.89	21.45	1.21	0.52	2000	30.43	15.94	3.72
2600	16.36	22.37	35.56	21.63	1.24	0.50	2100	30.23	15.82	3.79
2800	16.00	22.25	38.45	21.94	1.26	0.49	2200	29.48	15.52	3.74
3000	15.66	22.10	39.08	22.62	1.28	0.48	2300	29.48	15.20	3.61
3200	15.28	22.03	37.98	22.83	1.31	0.46	2400	29.36	15.17	3.51
3400	14.96	21.91	37.48	23.30	1.33	0.45	2500	28.87	15.06	3.57
3600	14.61	21.83	34.81	23.51	1.36	0.44	2600	29.08	15.00	3.64
3800	14.28	21.72	32.61	23.11	1.38	0.43	2700	28.49	14.89	3.66
4000	13.94	21.67	31.45	22.22	1.42	0.41	2800	27.97	14.57	3.71
4500	13.13	21.56	25.97	20.28	1.50	0.38	2900	28.19	14.18	3.78
5000	12.43	21.54	22.13	18.34	1.58	0.36	3000	27.76	14.17	3.77
5500	11.90	21.42	18.56	17.38	1.63	0.35	3100	27.06	13.80	3.76
6000	11.52	21.34	16.07	17.56	1.67	0.34	3200	27.01	13.60	3.69
6500	11.24	21.41	14.61	18.79	1.71	0.33	3300	26.44	13.60	3.75
7000	11.01	21.34	12.90	20.42	1.72	0.32	3400	26.42	13.54	3.83
8000	10.51	21.00	10.18	23.87	1.67	0.31	3500	25.39	13.18	3.78
9000	9.29	20.31	7.66	17.63	1.58	0.28	3600	26.19	12.95	3.83
10000	7.50	19.58	5.96	14.30	1.54	0.24	3700	25.27	12.97	3.80
11000	5.64	18.70	5.02	11.42	1.48	0.21	3800	25.20	12.73	3.85
12000	3.52	18.11	4.15	8.18	1.38	0.23	3900	24.75	12.28	3.88
13000	1.07	18.03	3.46	6.06	1.28	0.25	4000	24.78	12.45	3.94

REV. X1

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Page 9 of 11



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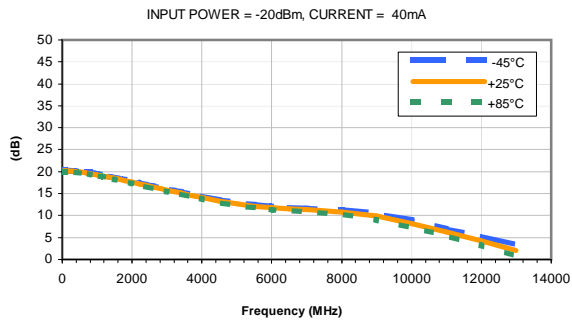


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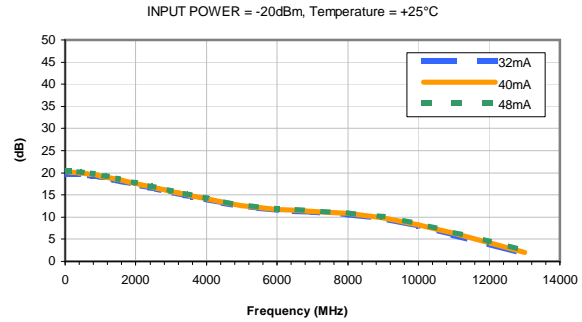


Typical Performance Curves

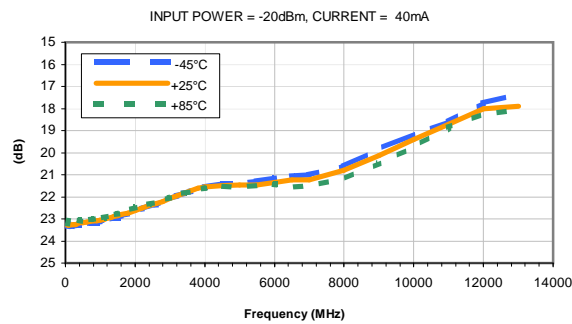
GAIN vs. TEMPERATURE



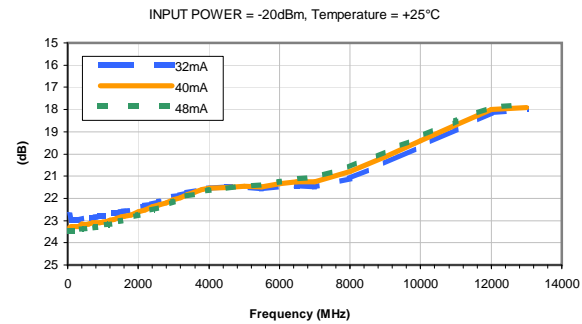
GAIN vs. CURRENT



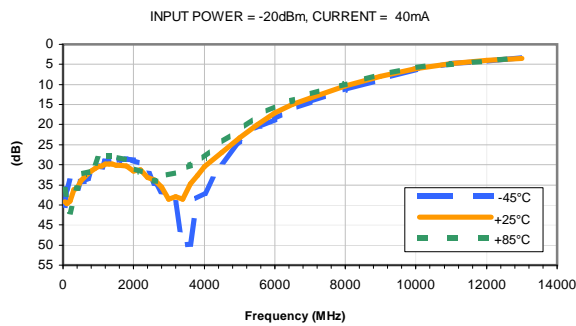
ISOLATION vs. TEMPERATURE



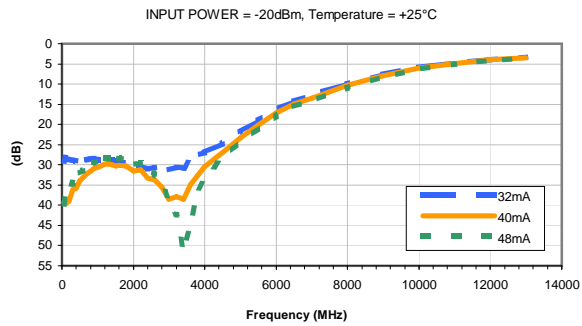
ISOLATION vs. CURRENT



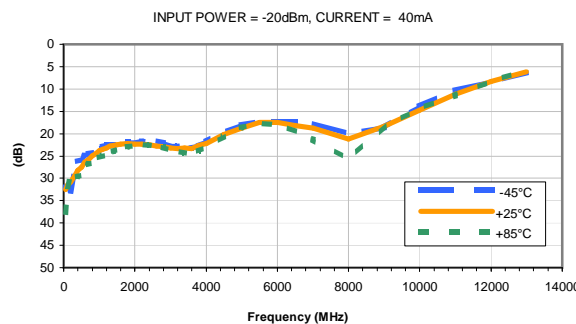
INPUT RETURN LOSS vs. TEMPERATURE



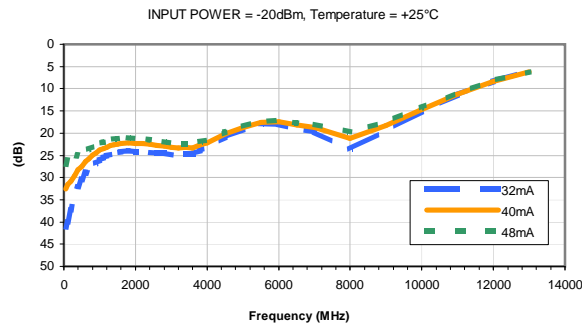
INPUT RETURN LOSS vs. CURRENT



OUTPUT RETURN LOSS vs. TEMPERATURE



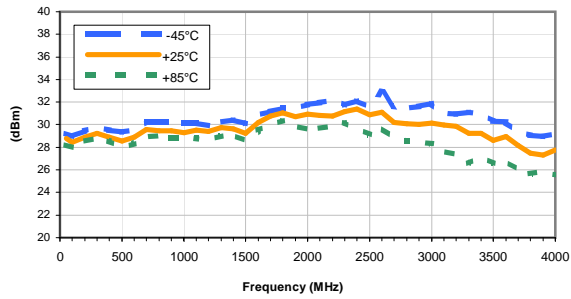
OUTPUT RETURN LOSS vs. CURRENT



Typical Performance Curves

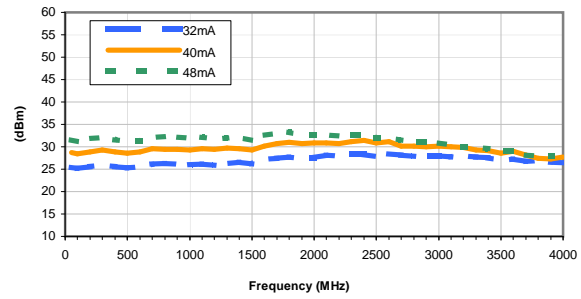
OUTPUT IP3 vs. TEMPERATURE

INPUT POWER = -20dBm, CURRENT = 40mA



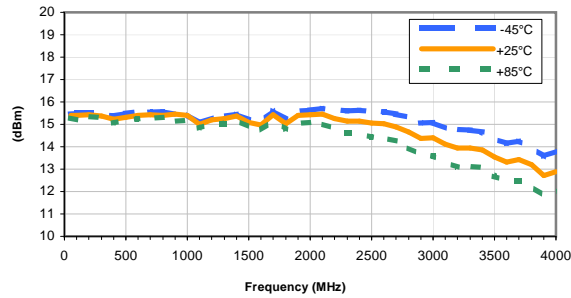
OUTPUT IP3 vs. CURRENT

INPUT POWER = -20dBm, Temperature = +25°C



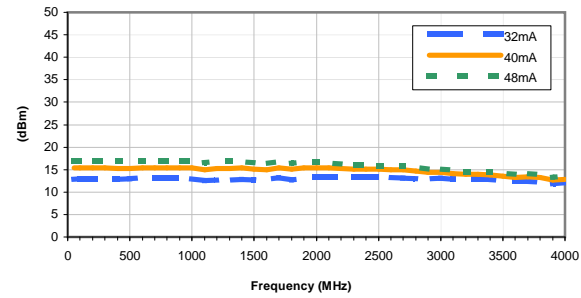
OUTPUT POWER at 1dB Compression vs. TEMPERATURE

CURRENT = 40mA



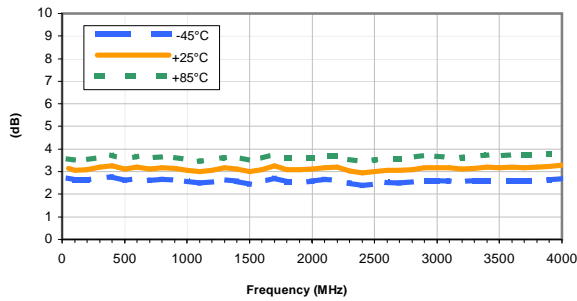
OUTPUT POWER at 1dB Compression vs. CURRENT

Temperature = +25°C



Noise Figure vs. TEMPERATURE

CURRENT = 40mA



Noise Figure vs. CURRENT

Temperature = +25°C

