

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 = 80mA, Vd=4.76V @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)
20	24.97	28.06	24.48	16.11	1.05	0.71	20	36.79	19.82	2.54
30	25.00	28.06	24.89	16.54	1.05	0.71	30	36.57	19.86	2.54
50	25.00	27.97	25.38	16.48	1.05	0.72	50	36.54	19.83	2.55
100	24.92	28.10	24.31	15.90	1.05	0.70	100	36.57	19.98	2.76
200	24.75	28.04	22.36	14.83	1.05	0.69	200	36.41	19.89	2.62
300	24.53	27.89	20.59	13.68	1.05	0.69	300	35.95	19.72	2.73
400	24.29	27.87	19.44	12.64	1.04	0.67	400	35.35	19.72	2.74
500	24.04	27.75	18.36	11.68	1.04	0.66	500	34.85	19.33	2.79
600	23.78	27.65	17.51	10.86	1.03	0.65	600	34.32	19.57	2.74
700	23.50	27.56	16.81	10.14	1.02	0.63	700	33.92	19.21	2.86
800	23.19	27.46	16.14	9.51	1.02	0.62	800	33.49	19.15	2.82
900	22.89	27.34	15.53	8.98	1.01	0.61	900	33.02	18.66	2.73
1000	22.57	27.21	15.05	8.50	1.00	0.59	1000	32.43	18.43	2.71
1100	22.25	27.15	14.64	8.09	1.00	0.57	1100	31.86	18.24	2.73
1200	21.91	27.00	14.27	7.74	1.00	0.56	1200	31.39	17.68	2.77
1400	21.23	26.81	13.51	7.15	0.99	0.53	1300	30.95	17.80	2.84
1600	20.54	26.56	13.03	6.75	0.99	0.51	1400	30.32	17.18	2.89
1800	19.89	26.34	12.56	6.45	1.00	0.48	1500	30.18	16.82	2.84
2000	19.24	25.98	12.27	6.26	1.00	0.46	1600	30.08	16.37	2.87
2200	18.61	25.78	12.04	6.11	1.01	0.44	1700	29.76	16.04	2.83
2400	18.00	25.52	11.89	6.05	1.03	0.42	1800	29.31	15.85	2.93
2600	17.43	25.22	11.75	5.97	1.04	0.41	1900	28.47	15.32	2.88
2800	16.84	25.01	11.80	5.95	1.07	0.40	2000	28.53	15.10	2.97
3000	16.28	24.71	11.67	5.92	1.10	0.39	2100	27.80	14.57	2.87
3200	15.76	24.42	11.59	5.87	1.12	0.39	2200	27.65	14.19	2.96
3400	15.24	24.00	11.29	5.73	1.12	0.39	2300	27.31	13.79	2.88
3600	14.71	23.98	10.87	5.51	1.15	0.39	2400	26.56	13.19	2.96
3800	14.17	23.82	10.46	5.40	1.18	0.39	2500	26.50	13.35	2.94
4000	13.61	23.69	9.91	5.24	1.21	0.40	2600	25.70	12.41	3.04
4500	12.13	23.51	8.38	4.78	1.29	0.42	2700	25.70	12.64	2.94
5000	10.63	23.52	7.02	4.35	1.37	0.43	2800	25.24	11.71	3.06
5500	9.08	23.59	6.03	4.01	1.46	0.44	2900	24.87	12.08	2.96
6000	7.57	23.82	5.40	3.79	1.60	0.45	3000	25.04	11.27	3.05
6500	6.10	23.74	4.87	3.56	1.70	0.46	3100	24.26	11.13	3.07
7000	4.59	24.12	4.56	3.37	1.93	0.47	3200	24.61	11.00	3.11
7500	3.13	24.25	4.21	3.12	2.07	0.48	3300	24.14	10.73	3.10
8000	1.73	24.14	3.91	2.95	2.19	0.49	3400	23.99	10.62	3.07
9000	-0.30	23.62	3.65	2.71	2.27	0.51	3600	23.23	10.19	3.16
10000	-1.31	22.94	3.84	2.90	2.40	0.47	3800	22.98	9.83	3.16
11000	-2.10	22.64	4.02	3.02	2.62	0.45	4000	22.98	9.46	3.22

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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 = 64mA, Vd=4.71V @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)
20	24.75	27.94	29.83	17.92	1.06	0.70	20	33.75	18.77	2.52
30	24.79	27.63	29.42	18.46	1.05	0.72	30	33.57	18.77	2.51
50	24.77	27.72	29.82	18.06	1.05	0.72	50	33.55	18.79	2.51
100	24.69	27.89	27.92	17.38	1.06	0.70	100	33.59	18.72	2.68
200	24.53	27.73	24.55	15.94	1.05	0.69	200	33.69	18.69	2.56
300	24.32	27.62	22.03	14.62	1.04	0.69	300	33.53	18.55	2.67
400	24.09	27.60	20.55	13.40	1.04	0.67	400	33.09	18.57	2.69
500	23.86	27.44	19.21	12.31	1.03	0.66	500	32.82	18.27	2.70
600	23.59	27.34	18.26	11.37	1.03	0.65	600	32.51	18.41	2.69
700	23.32	27.23	17.37	10.58	1.02	0.64	700	32.36	18.15	2.76
800	23.02	27.18	16.62	9.91	1.01	0.62	800	32.13	18.05	2.76
900	22.72	27.03	15.92	9.32	1.00	0.61	900	31.82	17.81	2.66
1000	22.42	26.95	15.36	8.81	1.00	0.59	1000	31.37	17.58	2.69
1100	22.10	26.85	14.88	8.38	0.99	0.57	1100	30.90	17.65	2.66
1200	21.76	26.69	14.44	7.99	0.99	0.56	1200	30.50	17.10	2.73
1400	21.09	26.50	13.64	7.37	0.98	0.53	1300	30.18	17.26	2.79
1600	20.41	26.27	13.09	6.94	0.98	0.50	1400	29.57	16.68	2.84
1800	19.77	26.02	12.58	6.63	0.98	0.48	1500	29.49	16.34	2.77
2000	19.11	25.73	12.25	6.42	0.99	0.46	1600	29.44	15.89	2.79
2200	18.49	25.48	12.00	6.27	1.00	0.44	1700	29.15	15.48	2.75
2400	17.88	25.23	11.81	6.19	1.01	0.42	1800	28.72	15.32	2.86
2600	17.31	24.91	11.70	6.11	1.03	0.41	1900	27.87	14.77	2.82
2800	16.73	24.74	11.73	6.09	1.06	0.40	2000	27.92	14.64	2.90
3000	16.16	24.47	11.58	6.04	1.08	0.39	2100	27.19	14.06	2.80
3200	15.65	24.17	11.51	6.00	1.10	0.39	2200	27.05	13.68	2.89
3400	15.13	23.75	11.22	5.86	1.10	0.39	2300	26.72	13.30	2.80
3600	14.60	23.68	10.83	5.65	1.13	0.39	2400	25.99	12.64	2.86
3800	14.06	23.58	10.42	5.53	1.17	0.39	2500	25.92	12.85	2.85
4000	13.49	23.48	9.91	5.37	1.20	0.39	2600	25.13	11.91	2.96
4500	12.03	23.35	8.39	4.91	1.29	0.41	2700	25.15	12.16	2.87
5000	10.51	23.36	7.03	4.49	1.37	0.42	2800	24.68	11.21	2.96
5500	8.97	23.48	6.03	4.14	1.47	0.43	2900	24.32	11.60	2.88
6000	7.46	23.67	5.42	3.92	1.62	0.44	3000	24.50	10.76	2.94
6500	5.99	23.67	4.89	3.68	1.72	0.45	3100	23.69	10.65	2.99
7000	4.48	24.03	4.58	3.48	1.95	0.46	3200	24.04	10.52	3.02
7500	3.04	24.15	4.23	3.23	2.10	0.47	3300	23.58	10.26	2.99
8000	1.65	24.09	3.94	3.05	2.23	0.49	3400	23.42	10.14	2.96
9000	-0.37	23.57	3.66	2.81	2.31	0.50	3600	22.67	9.72	3.05
10000	-1.39	22.92	3.86	2.98	2.46	0.46	3800	22.43	9.32	3.06
11000	-2.19	22.64	4.03	3.10	2.69	0.44	4000	22.46	8.97	3.12

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Typical Performance Data

Definitions:

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Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Icc = 96mA, Vd=4.81V @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)
20	25.11	28.56	23.20	15.14	1.07	0.68	20	39.01	19.92	2.58
30	25.15	28.40	22.55	15.69	1.06	0.70	30	38.80	20.00	2.58
50	25.14	28.08	23.17	15.43	1.05	0.72	50	38.74	19.96	2.62
100	25.06	28.41	22.45	15.05	1.06	0.69	100	38.67	20.13	2.81
200	24.89	28.25	21.06	14.09	1.05	0.69	200	38.05	20.19	2.64
300	24.65	28.19	19.72	13.09	1.05	0.68	300	37.30	20.28	2.81
400	24.41	28.15	18.62	12.15	1.05	0.66	400	36.56	20.23	2.78
500	24.17	28.00	17.73	11.30	1.04	0.66	500	35.92	19.71	2.86
600	23.90	27.90	17.00	10.52	1.03	0.64	600	35.26	20.11	2.79
700	23.61	27.72	16.38	9.83	1.02	0.64	700	34.69	19.60	2.93
800	23.31	27.70	15.75	9.26	1.02	0.62	800	34.17	19.57	2.87
900	23.00	27.54	15.22	8.76	1.02	0.61	900	33.64	18.94	2.82
1000	22.68	27.47	14.79	8.30	1.01	0.59	1000	32.99	18.73	2.79
1100	22.35	27.40	14.41	7.91	1.01	0.57	1100	32.42	18.48	2.81
1200	22.01	27.23	14.07	7.58	1.00	0.56	1200	31.92	17.94	2.83
1400	21.32	26.99	13.37	7.01	1.00	0.53	1300	31.44	18.08	2.93
1600	20.64	26.77	12.93	6.63	1.00	0.51	1400	30.80	17.45	2.95
1800	19.98	26.52	12.50	6.35	1.00	0.48	1500	30.64	17.15	2.91
2000	19.34	26.24	12.24	6.16	1.01	0.46	1600	30.54	16.70	2.94
2200	18.70	26.00	12.03	6.02	1.02	0.44	1700	30.22	16.41	2.92
2400	18.10	25.71	11.88	5.96	1.04	0.43	1800	29.78	16.20	3.00
2600	17.52	25.39	11.78	5.88	1.05	0.42	1900	28.96	15.71	2.98
2800	16.94	25.24	11.82	5.87	1.09	0.40	2000	29.01	15.51	3.03
3000	16.37	24.91	11.68	5.82	1.11	0.40	2100	28.29	14.98	2.95
3200	15.86	24.55	11.61	5.77	1.12	0.40	2200	28.15	14.61	3.04
3400	15.34	24.13	11.31	5.64	1.12	0.40	2300	27.80	14.21	2.96
3600	14.81	24.09	10.88	5.43	1.15	0.40	2400	27.04	13.62	3.03
3800	14.26	24.00	10.46	5.30	1.19	0.40	2500	26.99	13.76	3.01
4000	13.71	23.82	9.91	5.14	1.21	0.41	2600	26.19	12.81	3.12
4500	12.23	23.68	8.37	4.67	1.29	0.42	2700	26.18	13.04	3.04
5000	10.73	23.66	7.00	4.24	1.36	0.44	2800	25.70	12.12	3.14
5500	9.19	23.72	6.01	3.91	1.45	0.45	2900	25.34	12.47	3.04
6000	7.67	23.91	5.39	3.70	1.59	0.45	3000	25.51	11.65	3.15
6500	6.19	23.81	4.85	3.47	1.68	0.47	3100	24.72	11.56	3.17
7000	4.67	24.20	4.55	3.27	1.90	0.47	3200	25.09	11.37	3.21
7500	3.22	24.31	4.20	3.05	2.04	0.49	3300	24.63	11.14	3.18
8000	1.81	24.18	3.91	2.88	2.16	0.50	3400	24.47	11.01	3.17
9000	-0.22	23.58	3.63	2.65	2.21	0.51	3600	23.72	10.58	3.28
10000	-1.22	22.96	3.83	2.83	2.36	0.48	3800	23.47	10.23	3.29
11000	-2.01	22.66	4.00	2.95	2.57	0.45	4000	23.48	9.88	3.34

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Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Icc = 80mA, Vd=5.02V @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)
20	25.12	27.78	24.80	15.69	1.04	0.75	20	37.39	20.38	2.18
30	25.16	28.04	24.09	16.03	1.05	0.73	30	37.23	20.45	2.15
50	25.16	28.15	24.68	15.87	1.05	0.72	50	37.23	20.41	2.15
100	25.08	28.23	24.08	15.60	1.05	0.70	100	37.30	20.51	2.30
200	24.93	28.14	22.32	14.63	1.05	0.70	200	37.26	20.43	2.17
300	24.71	28.06	20.46	13.43	1.04	0.69	300	36.95	20.25	2.28
400	24.48	27.82	19.19	12.38	1.03	0.69	400	36.45	20.23	2.31
500	24.24	27.89	18.12	11.49	1.03	0.66	500	36.05	19.91	2.30
600	23.99	27.80	17.30	10.67	1.03	0.65	600	35.60	20.10	2.30
700	23.72	27.64	16.60	9.93	1.02	0.65	700	35.29	19.78	2.38
800	23.43	27.53	15.89	9.28	1.01	0.63	800	34.91	19.72	2.34
900	23.12	27.44	15.32	8.77	1.00	0.62	900	34.52	19.35	2.26
1000	22.81	27.35	14.83	8.31	1.00	0.60	1000	33.98	19.17	2.27
1100	22.50	27.25	14.45	7.90	0.99	0.59	1100	33.44	18.98	2.24
1200	22.17	27.17	14.06	7.53	0.99	0.57	1200	33.03	18.51	2.27
1400	21.51	26.92	13.29	6.92	0.98	0.55	1300	32.63	18.58	2.36
1600	20.85	26.67	12.92	6.51	0.98	0.52	1400	32.06	17.98	2.38
1800	20.19	26.42	12.46	6.19	0.98	0.50	1500	31.95	17.64	2.35
2000	19.58	26.12	12.21	6.00	0.98	0.48	1600	31.83	17.18	2.36
2200	18.97	25.83	11.98	5.81	0.98	0.46	1700	31.54	16.86	2.35
2400	18.39	25.61	11.84	5.77	1.00	0.45	1800	31.07	16.64	2.40
2600	17.82	25.31	11.77	5.66	1.01	0.43	1900	30.32	16.17	2.36
2800	17.29	25.05	11.81	5.63	1.02	0.42	2000	30.39	15.94	2.44
3000	16.72	24.82	11.67	5.53	1.05	0.42	2100	29.64	15.40	2.36
3200	16.22	24.48	11.62	5.50	1.06	0.42	2200	29.57	15.04	2.42
3400	15.73	24.09	11.35	5.36	1.06	0.42	2300	29.15	14.64	2.33
3600	15.23	24.00	10.82	5.11	1.08	0.42	2400	28.49	14.10	2.41
3800	14.70	23.91	10.41	4.98	1.11	0.42	2500	28.36	14.15	2.38
4000	14.15	23.74	9.83	4.82	1.13	0.43	2600	27.54	13.32	2.49
4500	12.73	23.57	8.38	4.38	1.19	0.44	2700	27.60	13.45	2.37
5000	11.29	23.52	7.06	3.99	1.25	0.46	2800	27.02	12.65	2.48
5500	9.84	23.53	6.07	3.66	1.32	0.47	2900	26.76	12.91	2.39
6000	8.33	23.56	5.37	3.39	1.40	0.48	3000	26.84	12.13	2.48
6500	6.80	23.75	4.66	3.09	1.48	0.50	3100	26.08	12.01	2.48
7000	5.20	24.17	4.27	2.85	1.64	0.51	3200	26.46	11.82	2.54
7500	3.77	24.22	3.94	2.67	1.73	0.52	3300	25.91	11.63	2.51
8000	2.43	23.92	3.81	2.68	1.90	0.53	3400	25.87	11.49	2.49
9000	0.57	23.27	3.54	2.43	1.87	0.54	3600	25.09	11.05	2.56
10000	-0.83	23.17	3.48	2.35	1.93	0.52	3800	24.74	10.67	2.58
11000	-1.57	22.50	3.63	2.50	2.03	0.50	4000	24.68	10.28	2.61

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Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Icc = 64mA, Vd=4.98V @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)
20	24.93	28.47	28.69	16.92	1.07	0.67	20	34.27	19.15	2.15
30	24.97	28.13	27.86	17.38	1.06	0.70	30	34.12	19.06	2.12
50	24.96	27.95	28.33	17.27	1.05	0.71	50	34.14	19.07	2.11
100	24.89	28.03	26.88	16.82	1.05	0.70	100	34.19	19.02	2.26
200	24.74	27.93	24.33	15.65	1.05	0.70	200	34.33	19.02	2.15
300	24.53	27.88	21.75	14.20	1.05	0.68	300	34.28	18.87	2.23
400	24.31	27.70	20.14	13.00	1.04	0.68	400	33.95	18.91	2.29
500	24.07	27.56	18.89	12.03	1.03	0.67	500	33.78	18.67	2.26
600	23.81	27.48	17.96	11.15	1.02	0.66	600	33.53	18.72	2.26
700	23.56	27.40	17.15	10.32	1.01	0.64	700	33.49	18.41	2.33
800	23.27	27.31	16.33	9.63	1.01	0.63	800	33.32	18.32	2.30
900	22.97	27.16	15.71	9.09	1.00	0.62	900	33.10	18.15	2.20
1000	22.68	27.13	15.16	8.58	0.99	0.60	1000	32.77	17.94	2.22
1100	22.37	26.95	14.70	8.15	0.98	0.59	1100	32.33	18.09	2.19
1200	22.04	26.84	14.30	7.75	0.98	0.58	1200	32.03	17.79	2.24
1400	21.38	26.64	13.45	7.11	0.97	0.55	1300	31.77	17.86	2.30
1600	20.72	26.41	13.02	6.67	0.97	0.52	1400	31.20	17.41	2.34
1800	20.08	26.18	12.50	6.34	0.97	0.50	1500	31.20	17.10	2.26
2000	19.47	25.85	12.23	6.14	0.97	0.48	1600	31.12	16.71	2.31
2200	18.86	25.61	11.97	5.94	0.97	0.46	1700	30.90	16.33	2.29
2400	18.28	25.33	11.83	5.89	0.98	0.44	1800	30.45	16.16	2.36
2600	17.71	25.07	11.74	5.77	1.00	0.43	1900	29.67	15.65	2.30
2800	17.18	24.82	11.78	5.75	1.01	0.42	2000	29.74	15.45	2.40
3000	16.61	24.60	11.63	5.65	1.04	0.41	2100	29.01	14.93	2.33
3200	16.11	24.25	11.57	5.62	1.05	0.41	2200	28.93	14.56	2.37
3400	15.62	23.88	11.31	5.48	1.05	0.41	2300	28.52	14.18	2.27
3600	15.12	23.78	10.80	5.22	1.07	0.41	2400	27.88	13.63	2.35
3800	14.59	23.72	10.41	5.09	1.10	0.41	2500	27.76	13.70	2.33
4000	14.04	23.56	9.84	4.93	1.13	0.42	2600	26.97	12.84	2.42
4500	12.61	23.36	8.39	4.51	1.19	0.43	2700	27.04	12.99	2.31
5000	11.18	23.35	7.08	4.11	1.25	0.45	2800	26.46	12.20	2.42
5500	9.73	23.37	6.07	3.78	1.32	0.46	2900	26.22	12.45	2.33
6000	8.22	23.48	5.39	3.51	1.42	0.47	3000	26.30	11.71	2.40
6500	6.69	23.61	4.68	3.20	1.49	0.49	3100	25.52	11.57	2.42
7000	5.12	24.10	4.29	2.95	1.66	0.50	3200	25.92	11.40	2.47
7500	3.68	24.17	3.96	2.77	1.76	0.51	3300	25.36	11.19	2.43
8000	2.33	23.90	3.82	2.77	1.93	0.52	3400	25.30	11.04	2.42
9000	0.48	23.22	3.55	2.50	1.90	0.53	3600	24.53	10.60	2.47
10000	-0.90	23.14	3.49	2.42	1.96	0.52	3800	24.24	10.25	2.50
11000	-1.66	22.54	3.65	2.59	2.10	0.49	4000	24.17	9.87	2.55

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MMIC Amplifier

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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 = 96mA, Vd=5.08V @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)
20	25.24	28.25	22.79	14.84	1.05	0.72	20	39.69	20.63	2.20
30	25.29	28.76	22.67	15.14	1.07	0.68	30	39.52	20.71	2.20
50	25.28	28.25	23.02	15.18	1.05	0.72	50	39.55	20.74	2.21
100	25.21	28.29	22.46	14.80	1.05	0.71	100	39.55	20.89	2.38
200	25.05	28.28	21.24	14.01	1.05	0.70	200	39.12	20.96	2.22
300	24.82	28.29	19.62	12.93	1.05	0.68	300	38.49	21.00	2.36
400	24.59	28.10	18.49	11.95	1.04	0.68	400	37.84	20.92	2.34
500	24.36	28.02	17.58	11.14	1.03	0.67	500	37.28	20.46	2.37
600	24.09	27.87	16.80	10.35	1.02	0.66	600	36.68	20.81	2.33
700	23.82	27.87	16.18	9.67	1.02	0.64	700	36.17	20.36	2.44
800	23.53	27.72	15.54	9.05	1.01	0.63	800	35.70	20.33	2.37
900	23.22	27.63	15.01	8.58	1.01	0.62	900	35.20	19.73	2.32
1000	22.91	27.54	14.58	8.14	1.00	0.60	1000	34.59	19.55	2.31
1100	22.59	27.39	14.21	7.73	0.99	0.59	1100	34.06	19.27	2.30
1200	22.26	27.31	13.87	7.38	0.99	0.58	1200	33.60	18.78	2.33
1400	21.59	27.11	13.14	6.80	0.99	0.55	1300	33.15	18.87	2.42
1600	20.93	26.87	12.80	6.40	0.98	0.52	1400	32.58	18.28	2.43
1800	20.28	26.62	12.38	6.10	0.98	0.50	1500	32.45	17.96	2.40
2000	19.67	26.33	12.16	5.91	0.99	0.48	1600	32.32	17.52	2.41
2200	19.06	26.04	11.94	5.73	0.99	0.46	1700	32.00	17.24	2.40
2400	18.48	25.76	11.82	5.67	1.00	0.45	1800	31.53	17.02	2.46
2600	17.91	25.49	11.76	5.58	1.01	0.44	1900	30.79	16.57	2.43
2800	17.38	25.28	11.81	5.54	1.04	0.42	2000	30.87	16.34	2.51
3000	16.81	24.96	11.67	5.44	1.05	0.42	2100	30.14	15.81	2.42
3200	16.31	24.62	11.61	5.41	1.07	0.42	2200	30.05	15.48	2.48
3400	15.82	24.26	11.32	5.28	1.07	0.42	2300	29.64	15.05	2.41
3600	15.33	24.16	10.80	5.02	1.08	0.42	2400	28.96	14.55	2.50
3800	14.79	24.07	10.39	4.89	1.11	0.42	2500	28.86	14.56	2.45
4000	14.24	23.88	9.81	4.72	1.13	0.43	2600	28.04	13.74	2.55
4500	12.83	23.68	8.36	4.29	1.19	0.45	2700	28.08	13.84	2.46
5000	11.39	23.61	7.04	3.90	1.24	0.46	2800	27.52	13.01	2.56
5500	9.94	23.64	6.04	3.57	1.31	0.48	2900	27.24	13.30	2.46
6000	8.43	23.66	5.35	3.30	1.39	0.49	3000	27.34	12.54	2.56
6500	6.90	23.80	4.65	3.01	1.46	0.51	3100	26.58	12.41	2.56
7000	5.30	24.21	4.25	2.77	1.61	0.52	3200	26.96	12.22	2.61
7500	3.86	24.29	3.94	2.59	1.71	0.53	3300	26.42	12.03	2.57
8000	2.52	24.00	3.79	2.61	1.87	0.53	3400	26.33	11.88	2.59
9000	0.65	23.26	3.52	2.35	1.83	0.54	3600	25.56	11.43	2.67
10000	-0.74	23.27	3.47	2.28	1.90	0.53	3800	25.20	11.09	2.68
11000	-1.49	22.53	3.63	2.44	2.00	0.50	4000	25.15	10.71	2.72

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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 = 80mA, Vd=4.58V @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)
20	24.82	27.51	26.36	16.93	1.04	0.74	20	36.24	19.26	2.84
30	24.85	27.95	26.00	17.28	1.06	0.71	30	36.05	19.33	2.85
50	24.85	28.01	26.38	16.98	1.06	0.70	50	36.02	19.37	2.85
100	24.75	27.99	25.05	16.42	1.06	0.70	100	36.05	19.44	3.05
200	24.58	27.84	22.65	15.13	1.05	0.69	200	35.81	19.42	2.91
300	24.35	27.84	21.01	13.96	1.05	0.67	300	35.24	19.25	3.08
400	24.10	27.69	19.89	12.91	1.05	0.67	400	34.56	19.26	3.07
500	23.85	27.66	18.85	11.93	1.04	0.65	500	34.00	18.82	3.11
600	23.58	27.49	18.00	11.08	1.03	0.64	600	33.41	19.14	3.08
700	23.29	27.38	17.26	10.33	1.03	0.63	700	32.95	18.73	3.23
800	22.98	27.40	16.56	9.68	1.03	0.60	800	32.49	18.63	3.13
900	22.66	27.30	16.01	9.18	1.02	0.59	900	32.00	18.08	3.10
1000	22.34	27.12	15.51	8.69	1.01	0.58	1000	31.37	17.84	3.11
1100	22.01	27.04	15.05	8.29	1.01	0.56	1100	30.81	17.65	3.08
1200	21.66	26.88	14.67	7.94	1.01	0.55	1200	30.31	17.06	3.15
1400	20.96	26.66	13.94	7.35	1.00	0.52	1300	29.87	17.17	3.22
1600	20.26	26.41	13.38	6.98	1.01	0.49	1400	29.20	16.54	3.28
1800	19.58	26.16	12.83	6.68	1.01	0.46	1500	29.03	16.21	3.24
2000	18.91	25.88	12.51	6.47	1.02	0.44	1600	28.97	15.75	3.24
2200	18.25	25.66	12.24	6.33	1.04	0.42	1700	28.61	15.39	3.20
2400	17.61	25.38	12.10	6.29	1.06	0.40	1800	28.20	15.23	3.32
2600	17.01	25.11	11.91	6.18	1.08	0.39	1900	27.35	14.64	3.26
2800	16.41	24.92	11.95	6.19	1.12	0.38	2000	27.39	14.47	3.36
3000	15.81	24.60	11.83	6.16	1.14	0.37	2100	26.67	13.94	3.30
3200	15.28	24.29	11.70	6.11	1.16	0.37	2200	26.48	13.54	3.36
3400	14.75	23.89	11.42	6.00	1.17	0.37	2300	26.19	13.16	3.29
3600	14.22	23.87	11.04	5.86	1.21	0.37	2400	25.41	12.46	3.35
3800	13.65	23.76	10.61	5.70	1.25	0.37	2500	25.33	12.72	3.33
4000	13.09	23.61	10.04	5.56	1.28	0.38	2600	24.56	11.70	3.44
4500	11.60	23.46	8.51	5.10	1.37	0.39	2700	24.54	11.99	3.38
5000	10.02	23.49	7.06	4.66	1.47	0.40	2800	24.13	11.06	3.47
5500	8.43	23.62	6.10	4.33	1.60	0.41	2900	23.72	11.45	3.40
6000	6.93	23.78	5.56	4.17	1.78	0.41	3000	23.94	10.64	3.45
6500	5.48	23.73	5.09	3.99	1.92	0.42	3100	23.12	10.46	3.52
7000	4.02	24.09	4.82	3.79	2.20	0.43	3200	23.48	10.35	3.55
7500	2.55	24.32	4.45	3.47	2.39	0.45	3300	23.08	10.12	3.54
8000	1.12	24.24	4.09	3.22	2.51	0.47	3400	22.84	10.01	3.53
9000	-0.98	23.79	3.75	2.88	2.59	0.49	3600	22.13	9.60	3.62
10000	-1.83	22.95	4.09	3.26	2.82	0.43	3800	21.96	9.22	3.63
11000	-2.60	22.67	4.31	3.43	3.14	0.41	4000	21.95	8.82	3.70

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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 = 64mA, Vd=4.53V @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)
20	24.56	27.50	32.98	19.20	1.05	0.72	20	33.39	18.56	2.81
30	24.61	27.61	31.78	19.46	1.05	0.71	30	33.22	18.47	2.80
50	24.60	27.57	32.53	19.17	1.05	0.71	50	33.21	18.49	2.78
100	24.50	27.69	29.35	18.21	1.06	0.70	100	33.27	18.47	2.97
200	24.34	27.60	25.23	16.48	1.05	0.69	200	33.33	18.43	2.88
300	24.12	27.41	22.66	15.01	1.05	0.69	300	33.07	18.25	3.00
400	23.89	27.32	21.09	13.73	1.04	0.67	400	32.57	18.28	3.04
500	23.64	27.29	19.78	12.62	1.04	0.65	500	32.21	17.99	3.02
600	23.37	27.24	18.74	11.66	1.03	0.64	600	31.81	18.13	3.03
700	23.10	27.10	17.86	10.82	1.02	0.62	700	31.59	17.81	3.13
800	22.79	27.01	17.02	10.08	1.02	0.61	800	31.28	17.72	3.09
900	22.48	26.88	16.37	9.55	1.01	0.59	900	30.92	17.45	3.03
1000	22.17	26.80	15.78	9.02	1.01	0.58	1000	30.41	17.18	3.04
1100	21.84	26.68	15.26	8.58	1.00	0.56	1100	29.91	17.14	3.00
1200	21.50	26.56	14.81	8.21	1.00	0.55	1200	29.48	16.55	3.07
1400	20.81	26.34	14.00	7.58	0.99	0.51	1300	29.12	16.68	3.14
1600	20.12	26.07	13.42	7.17	0.99	0.49	1400	28.48	16.11	3.19
1800	19.44	25.79	12.82	6.86	1.00	0.47	1500	28.37	15.71	3.16
2000	18.78	25.56	12.46	6.63	1.00	0.44	1600	28.31	15.29	3.17
2200	18.12	25.30	12.17	6.49	1.02	0.42	1700	27.98	14.85	3.13
2400	17.48	25.04	12.00	6.42	1.04	0.40	1800	27.57	14.73	3.26
2600	16.88	24.79	11.84	6.33	1.06	0.39	1900	26.72	14.11	3.20
2800	16.29	24.60	11.85	6.34	1.10	0.37	2000	26.74	13.99	3.27
3000	15.69	24.31	11.73	6.30	1.12	0.37	2100	26.02	13.45	3.18
3200	15.16	24.03	11.63	6.25	1.15	0.36	2200	25.85	13.01	3.29
3400	14.63	23.65	11.35	6.14	1.15	0.37	2300	25.55	12.69	3.21
3600	14.10	23.61	11.00	5.99	1.20	0.36	2400	24.81	11.95	3.30
3800	13.53	23.49	10.58	5.85	1.24	0.37	2500	24.74	12.23	3.24
4000	12.96	23.36	10.03	5.70	1.27	0.37	2600	23.98	11.19	3.35
4500	11.48	23.22	8.52	5.23	1.37	0.38	2700	23.97	11.53	3.27
5000	9.91	23.32	7.07	4.79	1.47	0.40	2800	23.56	10.53	3.37
5500	8.32	23.47	6.11	4.47	1.60	0.40	2900	23.15	10.96	3.29
6000	6.81	23.63	5.57	4.30	1.79	0.41	3000	23.36	10.12	3.33
6500	5.37	23.61	5.11	4.12	1.94	0.41	3100	22.53	9.98	3.42
7000	3.92	23.98	4.84	3.91	2.22	0.42	3200	22.90	9.90	3.43
7500	2.45	24.19	4.48	3.58	2.42	0.44	3300	22.50	9.61	3.44
8000	1.03	24.19	4.11	3.32	2.56	0.46	3400	22.27	9.53	3.39
9000	-1.05	23.80	3.77	2.96	2.64	0.48	3600	21.54	9.12	3.49
10000	-1.91	22.98	4.11	3.34	2.89	0.43	3800	21.37	8.72	3.49
11000	-2.69	22.62	4.33	3.51	3.19	0.40	4000	21.38	8.34	3.58

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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 = 96mA, Vd=4.63V @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)
20	24.97	27.81	23.91	15.80	1.04	0.73	20	38.29	19.36	2.90
30	25.01	27.98	23.50	16.09	1.05	0.72	30	38.07	19.45	2.90
50	25.00	28.37	23.92	15.91	1.06	0.69	50	37.95	19.31	2.92
100	24.92	28.21	22.91	15.47	1.06	0.70	100	37.90	19.63	3.13
200	24.74	28.14	21.27	14.34	1.06	0.69	200	37.23	19.63	2.96
300	24.49	28.03	19.92	13.29	1.05	0.68	300	36.39	19.74	3.17
400	24.24	27.88	19.05	12.35	1.05	0.67	400	35.62	19.72	3.14
500	23.99	27.84	18.13	11.51	1.04	0.65	500	34.94	19.18	3.19
600	23.71	27.77	17.43	10.73	1.04	0.64	600	34.25	19.58	3.14
700	23.41	27.65	16.80	10.00	1.03	0.62	700	33.65	19.06	3.31
800	23.10	27.61	16.17	9.40	1.03	0.60	800	33.14	19.01	3.19
900	22.78	27.47	15.70	8.95	1.02	0.59	900	32.59	18.35	3.20
1000	22.45	27.35	15.24	8.49	1.02	0.58	1000	31.93	18.14	3.15
1100	22.11	27.23	14.83	8.10	1.02	0.56	1100	31.35	17.90	3.17
1200	21.77	27.12	14.47	7.77	1.01	0.55	1200	30.84	17.31	3.21
1400	21.06	26.92	13.80	7.21	1.01	0.51	1300	30.36	17.48	3.29
1600	20.36	26.66	13.30	6.85	1.02	0.49	1400	29.70	16.85	3.33
1800	19.67	26.37	12.80	6.57	1.02	0.47	1500	29.53	16.52	3.31
2000	19.00	26.13	12.50	6.38	1.03	0.44	1600	29.45	16.09	3.32
2200	18.35	25.84	12.24	6.23	1.04	0.42	1700	29.10	15.78	3.30
2400	17.71	25.58	12.12	6.20	1.07	0.41	1800	28.69	15.61	3.40
2600	17.10	25.30	11.92	6.10	1.09	0.39	1900	27.85	15.07	3.37
2800	16.50	25.11	11.98	6.10	1.13	0.38	2000	27.89	14.91	3.45
3000	15.91	24.80	11.85	6.07	1.15	0.37	2100	27.18	14.37	3.36
3200	15.38	24.48	11.72	6.03	1.17	0.37	2200	27.00	13.98	3.45
3400	14.84	24.04	11.43	5.91	1.17	0.38	2300	26.70	13.61	3.39
3600	14.32	24.06	11.05	5.76	1.22	0.37	2400	25.93	12.95	3.47
3800	13.74	23.90	10.59	5.62	1.25	0.38	2500	25.83	13.15	3.45
4000	13.18	23.73	10.03	5.46	1.28	0.38	2600	25.05	12.16	3.57
4500	11.70	23.59	8.48	5.01	1.37	0.40	2700	25.02	12.43	3.48
5000	10.12	23.64	7.04	4.57	1.47	0.41	2800	24.62	11.43	3.61
5500	8.53	23.75	6.07	4.24	1.59	0.42	2900	24.22	11.89	3.49
6000	7.02	23.90	5.54	4.07	1.77	0.42	3000	24.43	11.04	3.55
6500	5.56	23.81	5.08	3.91	1.91	0.43	3100	23.66	10.93	3.64
7000	4.10	24.19	4.81	3.72	2.18	0.43	3200	23.99	10.79	3.66
7500	2.63	24.34	4.43	3.40	2.36	0.45	3300	23.62	10.53	3.68
8000	1.18	24.34	4.08	3.15	2.50	0.47	3400	23.35	10.44	3.64
9000	-0.90	23.81	3.74	2.82	2.54	0.49	3600	22.64	10.02	3.76
10000	-1.75	22.97	4.10	3.21	2.78	0.44	3800	22.46	9.62	3.78
11000	-2.52	22.65	4.30	3.37	3.09	0.41	4000	22.48	9.29	3.84

REV. X1

MERA-7433+

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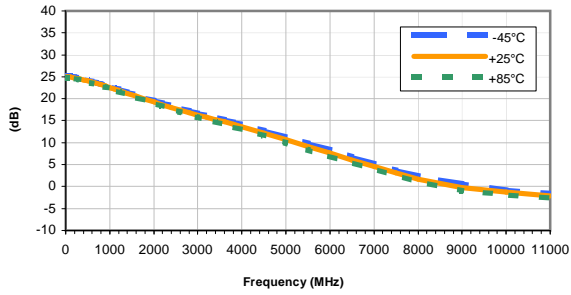
The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see



Typical Performance Curves

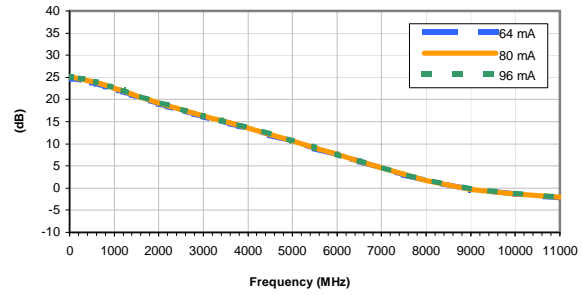
GAIN vs. TEMPERATURE

INPUT POWER = -20dB, CURRENT = 80 mA



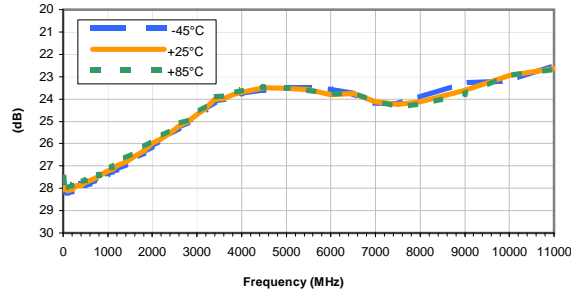
GAIN vs. CURRENT

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



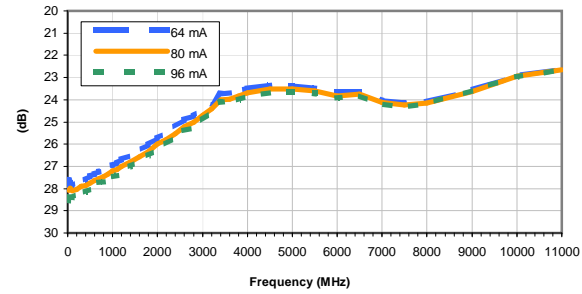
ISOLATION vs. TEMPERATURE

INPUT POWER = -20dB, CURRENT = 80 mA



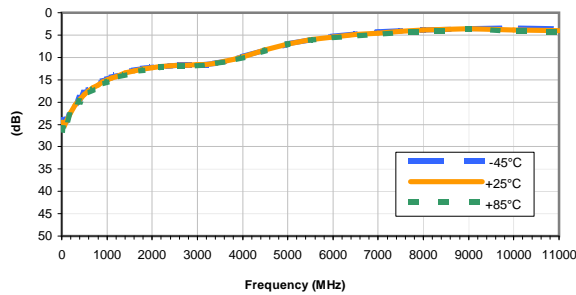
ISOLATION vs. CURRENT

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



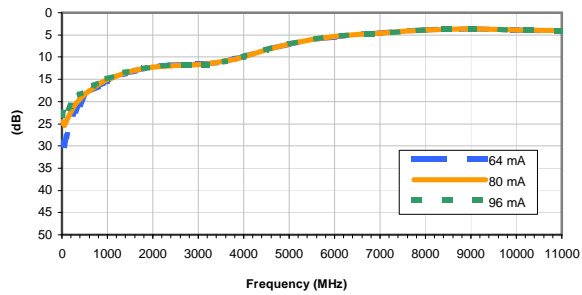
INPUT RETURN LOSS vs. TEMPERATURE

INPUT POWER = -20dB, CURRENT = 80 mA



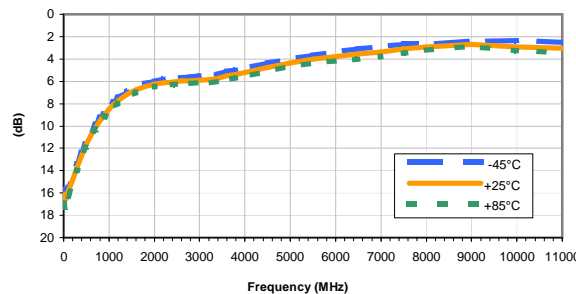
INPUT RETURN LOSS vs. CURRENT

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



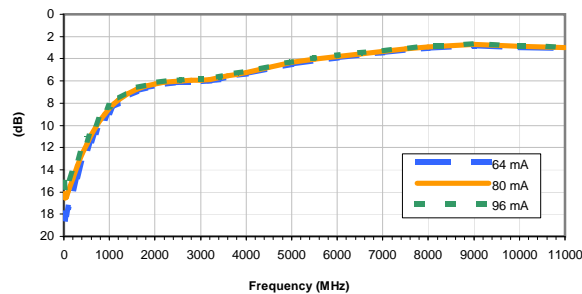
OUTPUT RETURN LOSS vs. TEMPERATURE

INPUT POWER = -20dB, CURRENT = 80 mA



OUTPUT RETURN LOSS vs. CURRENT

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



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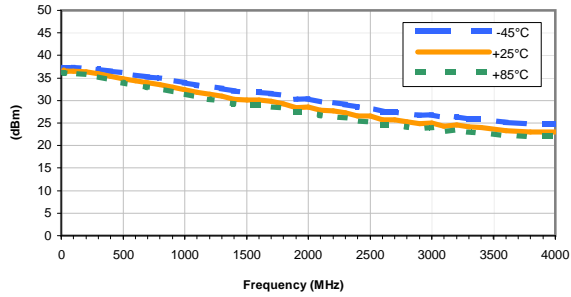
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Typical Performance Curves

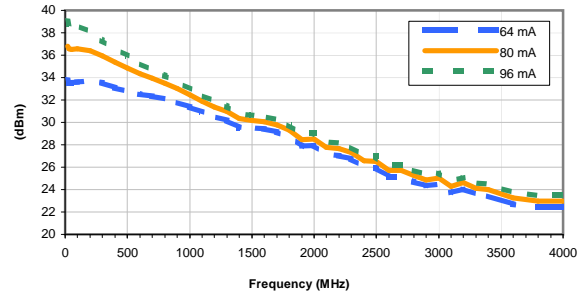
OUTPUT IP3 vs. TEMPERATURE

INPUT POWER = -20dB, CURRENT = 80 mA



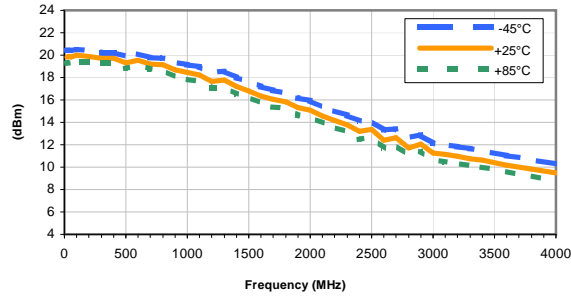
OUTPUT IP-3 vs. CURRENT

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



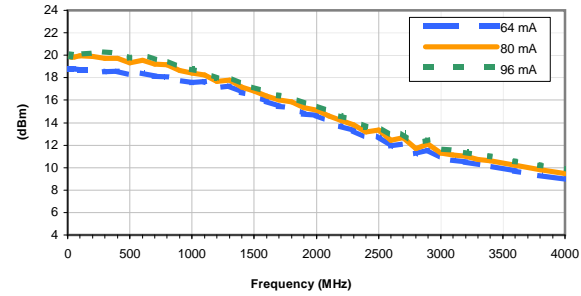
OUTPUT POWER at 1dB Compression vs. TEMPERATURE

CURRENT = 80 mA



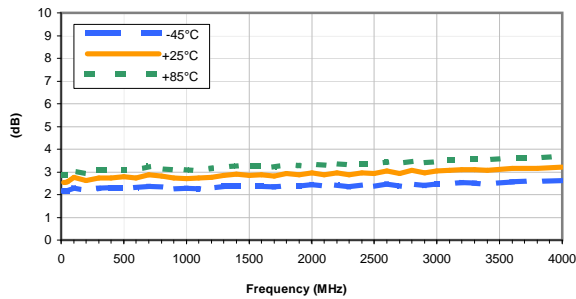
OUTPUT POWER at 1dB Compression vs. CURRENT

Temperature = +25°C



Noise Figure vs. TEMPERATURE

CURRENT = 80 mA



Noise Figure vs. CURRENT

Temperature = +25°C

