

MMIC Amplifier

GALI-6F+

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 = 4.64V @Temperature = +25degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	1dB Comp. Output	Noise Figure
					K	Delta			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(dB)
50	12.79	18.61	22.21	36.99	1.23	0.51	30.96	15.01	4.17
100	12.81	18.62	22.08	37.34	1.23	0.51	31.12	15.15	4.36
200	12.78	18.63	22.52	37.53	1.23	0.51	31.30	15.00	4.23
300	12.74	18.65	22.06	38.44	1.24	0.51	31.00	14.88	4.35
400	12.71	18.65	22.38	37.76	1.24	0.51	30.65	15.10	4.39
500	12.68	18.68	21.95	37.84	1.24	0.50	30.50	15.06	4.35
600	12.63	18.69	22.28	37.22	1.25	0.50	30.38	14.91	4.31
700	12.59	18.70	21.73	36.61	1.25	0.50	30.65	15.02	4.33
800	12.54	18.74	22.06	36.15	1.26	0.49	30.83	15.10	4.41
900	12.51	18.74	21.36	35.18	1.26	0.49	30.82	15.15	4.34
1000	12.46	18.77	21.65	34.73	1.27	0.48	30.58	15.15	4.35
1100	12.42	18.81	21.19	34.22	1.28	0.48	30.37	14.93	4.28
1200	12.37	18.84	21.11	33.25	1.28	0.48	30.22	14.65	4.38
1300	12.33	18.89	20.90	32.46	1.29	0.47	30.01	14.71	4.40
1400	12.28	18.93	20.35	31.79	1.30	0.47	29.67	14.71	4.41
1500	12.23	18.98	20.24	30.95	1.31	0.46	29.61	14.64	4.46
1600	12.18	19.02	19.62	29.73	1.31	0.46	30.07	14.66	4.46
1700	12.14	19.08	19.60	28.86	1.32	0.45	30.44	14.80	4.45
1800	12.08	19.14	18.95	28.09	1.33	0.45	30.22	14.67	4.44
1900	12.05	19.18	18.70	27.05	1.34	0.44	29.84	14.70	4.46
2000	12.03	19.26	18.13	26.08	1.35	0.44	29.70	14.59	4.39
2100	11.94	19.31	17.92	25.37	1.36	0.43	29.50	14.61	4.50
2200	11.91	19.39	17.44	24.45	1.37	0.43	29.38	14.74	4.35
2300	11.85	19.44	17.07	23.59	1.38	0.42	29.25	14.83	4.51
2400	11.79	19.53	16.80	22.84	1.40	0.42	29.10	14.80	4.43
2500	11.75	19.59	16.41	22.11	1.41	0.41	28.90	14.89	4.46
2600	11.67	19.69	16.08	21.40	1.42	0.40	28.62	14.80	4.47
2700	11.64	19.75	15.76	20.80	1.43	0.40	28.68	14.77	4.49
2800	11.57	19.83	15.57	20.30	1.45	0.40	28.51	14.72	4.45
2900	11.54	19.91	15.28	19.77	1.46	0.39	28.36	14.59	4.53
3000	11.47	19.99	14.98	19.36	1.47	0.39	28.16	14.54	4.38
3100	11.42	20.08	14.78	18.80	1.49	0.38	27.67	14.39	4.55
3200	11.39	20.16	14.49	18.33	1.50	0.38	27.47	14.49	4.41
3300	11.33	20.25	14.27	17.98	1.52	0.37	27.34	14.57	4.66
3400	11.32	20.35	14.08	17.55	1.53	0.37	27.20	14.52	4.59
3500	11.25	20.43	13.85	17.25	1.55	0.37	27.11	14.45	4.46
3600	11.25	20.49	13.79	16.94	1.55	0.37	26.86	14.36	4.68
3700	11.17	20.61	13.54	16.64	1.58	0.36	26.59	14.27	4.51
3800	11.16	20.66	13.44	16.43	1.58	0.36	26.40	14.01	4.63
4000	11.06	20.85	13.25	15.97	1.62	0.35	26.24	13.76	4.51

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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 = 4.51V @Temperature = +25degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	1dB Comp. Output	Noise Figure
					K	Delta			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(dB)
50	12.59	18.46	20.97	30.46	1.23	0.51	26.73	12.12	4.14
100	12.61	18.45	20.90	30.49	1.23	0.51	26.89	12.22	4.32
200	12.58	18.49	21.25	30.72	1.23	0.51	27.04	12.05	4.19
300	12.55	18.51	20.86	31.12	1.24	0.51	26.82	11.96	4.30
400	12.51	18.55	21.18	30.91	1.24	0.50	26.56	12.16	4.34
500	12.48	18.55	20.79	31.22	1.25	0.50	26.53	12.09	4.31
600	12.43	18.56	21.05	31.17	1.25	0.50	26.47	12.00	4.29
700	12.38	18.56	20.57	30.98	1.26	0.49	26.77	12.19	4.28
800	12.35	18.59	20.89	30.56	1.26	0.49	27.00	12.19	4.36
900	12.32	18.62	20.32	30.23	1.27	0.49	27.03	12.25	4.28
1000	12.27	18.63	20.51	30.10	1.27	0.48	26.81	12.29	4.31
1100	12.23	18.67	20.13	29.83	1.28	0.48	26.59	12.08	4.24
1200	12.17	18.71	20.03	29.32	1.29	0.47	26.49	11.78	4.35
1300	12.15	18.74	19.84	28.80	1.29	0.47	26.35	11.93	4.32
1400	12.10	18.79	19.34	28.34	1.30	0.47	26.09	11.85	4.36
1500	12.04	18.84	19.29	27.68	1.31	0.46	26.06	11.84	4.44
1600	12.00	18.90	18.70	26.95	1.32	0.45	26.47	11.82	4.39
1700	11.95	18.95	18.66	26.34	1.33	0.45	26.85	11.96	4.40
1800	11.90	19.00	18.07	25.68	1.34	0.44	26.70	11.83	4.41
1900	11.87	19.07	17.86	24.88	1.34	0.44	26.43	11.85	4.37
2000	11.84	19.11	17.36	24.08	1.35	0.44	26.31	11.81	4.34
2100	11.77	19.19	17.17	23.47	1.36	0.43	26.17	11.80	4.45
2200	11.73	19.26	16.74	22.73	1.37	0.43	26.15	11.93	4.32
2300	11.67	19.34	16.41	22.04	1.39	0.42	26.21	12.10	4.45
2400	11.62	19.41	16.12	21.46	1.40	0.41	26.24	12.12	4.38
2500	11.57	19.46	15.75	20.83	1.41	0.41	26.20	12.22	4.43
2600	11.49	19.55	15.42	20.26	1.42	0.40	26.05	12.17	4.44
2700	11.47	19.61	15.11	19.74	1.43	0.40	26.24	12.16	4.45
2800	11.41	19.69	14.93	19.26	1.45	0.40	26.15	12.04	4.39
2900	11.37	19.79	14.68	18.78	1.46	0.39	26.05	11.97	4.48
3000	11.31	19.86	14.42	18.43	1.47	0.39	25.94	12.00	4.33
3100	11.25	19.93	14.21	17.97	1.48	0.38	25.54	12.07	4.49
3200	11.22	20.02	13.92	17.56	1.50	0.38	25.47	12.26	4.32
3300	11.16	20.11	13.71	17.22	1.51	0.38	25.44	12.43	4.60
3400	11.15	20.20	13.56	16.82	1.52	0.37	25.37	12.44	4.52
3500	11.09	20.28	13.34	16.53	1.54	0.37	25.32	12.30	4.42
3600	11.09	20.34	13.29	16.25	1.54	0.37	25.06	12.38	4.61
3700	11.00	20.48	13.06	15.99	1.57	0.36	24.77	12.31	4.43
3800	10.99	20.53	12.95	15.81	1.58	0.36	24.57	12.15	4.57
4000	10.91	20.72	12.75	15.40	1.62	0.35	24.45	11.98	4.44

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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 = 4.76V @Temperature = +25degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	1dB Comp. Output	Noise Figure
					K	Delta			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(dB)
50	12.90	18.58	23.17	43.90	1.22	0.52	33.77	16.68	4.26
100	12.94	18.68	22.87	46.57	1.22	0.52	33.93	16.73	4.42
200	12.88	18.74	23.36	47.40	1.23	0.51	34.17	16.72	4.29
300	12.86	18.72	22.85	47.46	1.23	0.51	33.74	16.65	4.43
400	12.81	18.74	23.24	44.92	1.24	0.51	33.34	16.82	4.42
500	12.78	18.76	22.75	43.95	1.24	0.50	33.05	16.72	4.41
600	12.73	18.76	23.06	42.28	1.25	0.50	32.89	16.66	4.38
700	12.69	18.78	22.46	41.32	1.25	0.50	33.08	16.75	4.41
800	12.65	18.82	22.85	39.97	1.26	0.49	33.16	16.78	4.46
900	12.62	18.83	22.11	38.55	1.26	0.49	33.08	16.72	4.39
1000	12.57	18.86	22.39	38.09	1.27	0.48	32.80	16.79	4.41
1100	12.52	18.90	21.88	37.33	1.27	0.48	32.64	16.63	4.35
1200	12.48	18.92	21.79	36.10	1.28	0.48	32.45	16.42	4.44
1300	12.44	18.97	21.54	35.18	1.29	0.47	32.15	16.46	4.45
1400	12.39	19.01	20.94	34.19	1.30	0.47	31.80	16.43	4.47
1500	12.33	19.06	20.85	33.15	1.31	0.46	31.70	16.40	4.53
1600	12.29	19.11	20.19	31.78	1.31	0.46	32.15	16.42	4.54
1700	12.23	19.17	20.14	30.77	1.32	0.45	32.45	16.50	4.52
1800	12.19	19.19	19.45	29.72	1.33	0.45	32.14	16.42	4.53
1900	12.16	19.27	19.22	28.52	1.34	0.44	31.77	16.45	4.51
2000	12.13	19.32	18.63	27.39	1.35	0.44	31.54	16.41	4.47
2100	12.05	19.39	18.44	26.53	1.36	0.43	31.34	16.39	4.55
2200	12.00	19.47	17.94	25.53	1.37	0.43	31.10	16.43	4.45
2300	11.95	19.52	17.53	24.59	1.38	0.42	30.89	16.41	4.57
2400	11.88	19.60	17.24	23.77	1.40	0.42	30.59	16.36	4.51
2500	11.85	19.66	16.85	22.94	1.41	0.41	30.25	16.36	4.51
2600	11.77	19.74	16.48	22.19	1.42	0.41	29.91	16.34	4.56
2700	11.74	19.83	16.14	21.53	1.43	0.40	29.89	16.32	4.53
2800	11.67	19.91	15.95	20.93	1.45	0.39	29.69	16.21	4.53
2900	11.64	19.98	15.68	20.36	1.46	0.39	29.52	16.10	4.60
3000	11.57	20.07	15.38	19.92	1.48	0.39	29.27	16.04	4.45
3100	11.52	20.14	15.15	19.38	1.49	0.38	28.77	15.78	4.61
3200	11.49	20.25	14.83	18.87	1.50	0.38	28.49	15.83	4.50
3300	11.43	20.33	14.62	18.45	1.52	0.37	28.39	15.78	4.72
3400	11.42	20.43	14.45	17.99	1.53	0.37	28.20	15.67	4.66
3500	11.34	20.49	14.18	17.68	1.55	0.37	28.08	15.55	4.54
3600	11.34	20.55	14.14	17.34	1.55	0.36	27.83	15.40	4.77
3700	11.27	20.68	13.88	17.02	1.58	0.36	27.59	15.27	4.58
3800	11.25	20.77	13.78	16.80	1.59	0.36	27.44	14.99	4.72
4000	11.17	20.94	13.56	16.33	1.62	0.35	27.24	14.65	4.60

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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 = 4.87V @Temperature = -45degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	1dB Comp. Output	Noise Figure
					K	Delta			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(dB)
50	12.93	18.64	22.13	39.59	1.22	0.52	31.68	14.90	3.54
100	12.95	18.63	21.59	35.60	1.22	0.52	31.81	14.98	3.69
200	12.92	18.72	21.48	33.57	1.23	0.51	31.90	14.79	3.62
300	12.89	18.69	21.96	38.60	1.23	0.51	31.70	14.73	3.69
400	12.86	18.70	23.00	47.83	1.23	0.51	31.42	15.01	3.73
500	12.84	18.71	22.54	45.69	1.23	0.51	31.30	14.95	3.69
600	12.78	18.72	22.87	42.97	1.24	0.51	31.18	14.83	3.66
700	12.75	18.74	22.23	44.27	1.24	0.50	31.47	15.00	3.66
800	12.71	18.77	22.39	41.44	1.25	0.50	31.64	15.07	3.74
900	12.69	18.78	21.56	38.68	1.25	0.50	31.65	15.06	3.64
1000	12.65	18.80	21.78	39.32	1.26	0.49	31.46	15.08	3.68
1100	12.59	18.82	21.37	40.20	1.26	0.49	31.25	14.84	3.61
1200	12.56	18.85	21.59	38.16	1.27	0.48	31.13	14.53	3.70
1300	12.53	18.89	21.71	36.13	1.27	0.48	30.92	14.67	3.68
1400	12.48	18.94	21.10	34.88	1.28	0.48	30.64	14.64	3.70
1500	12.43	18.97	21.01	33.58	1.29	0.47	30.57	14.61	3.76
1600	12.38	19.00	20.34	31.98	1.29	0.47	30.99	14.62	3.75
1700	12.34	19.08	20.26	31.19	1.31	0.46	31.33	14.71	3.73
1800	12.30	19.11	19.49	30.41	1.31	0.46	31.15	14.63	3.76
1900	12.27	19.17	19.25	29.28	1.32	0.45	30.84	14.63	3.71
2000	12.23	19.22	18.73	28.37	1.33	0.45	30.74	14.61	3.69
2100	12.17	19.28	18.53	28.03	1.34	0.44	30.57	14.63	3.79
2200	12.13	19.33	18.11	27.50	1.35	0.44	30.49	14.77	3.67
2300	12.07	19.40	17.75	26.52	1.36	0.43	30.37	14.87	3.76
2400	12.01	19.48	17.46	25.26	1.37	0.43	30.25	14.94	3.70
2500	11.97	19.53	16.97	24.08	1.38	0.42	29.97	15.04	3.75
2600	11.90	19.61	16.55	23.19	1.39	0.42	29.70	14.99	3.74
2700	11.87	19.69	16.17	22.36	1.40	0.41	29.75	14.94	3.78
2800	11.80	19.75	15.96	21.60	1.42	0.41	29.63	14.83	3.72
2900	11.76	19.82	15.67	20.93	1.43	0.40	29.52	14.73	3.79
3000	11.71	19.90	15.37	20.38	1.44	0.40	29.32	14.72	3.66
3100	11.67	19.98	15.23	19.74	1.45	0.39	28.87	14.64	3.80
3200	11.63	20.05	15.02	19.22	1.46	0.39	28.67	14.72	3.68
3300	11.58	20.15	14.89	18.92	1.48	0.39	28.59	14.82	3.92
3400	11.57	20.23	14.79	18.58	1.49	0.38	28.39	14.85	3.85
3500	11.51	20.28	14.57	18.31	1.50	0.38	28.37	14.81	3.77
3600	11.52	20.35	14.49	17.96	1.51	0.38	28.12	14.73	3.90
3700	11.44	20.46	14.21	17.68	1.53	0.37	27.80	14.70	3.79
3800	11.43	20.50	14.10	17.44	1.54	0.37	27.67	14.50	3.84
4000	11.35	20.69	13.93	16.81	1.57	0.36	27.42	14.39	3.75

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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 = 4.73V @Temperature = -45degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	1dB Comp. Output	Noise Figure
					K	Delta			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(dB)
50	12.76	18.57	21.15	32.49	1.23	0.51	27.29	11.95	3.51
100	12.78	18.62	20.56	30.67	1.23	0.51	27.43	12.06	3.64
200	12.75	18.58	20.58	29.35	1.23	0.51	27.48	11.87	3.58
300	12.73	18.61	20.93	32.17	1.23	0.51	27.36	11.83	3.66
400	12.70	18.60	21.88	35.55	1.23	0.51	27.19	12.06	3.70
500	12.67	18.61	21.49	35.75	1.24	0.51	27.16	12.01	3.62
600	12.63	18.60	21.75	34.70	1.24	0.50	27.14	11.93	3.64
700	12.59	18.62	21.18	35.06	1.24	0.50	27.44	12.06	3.59
800	12.56	18.66	21.38	34.35	1.25	0.50	27.66	12.12	3.70
900	12.53	18.68	20.62	33.04	1.25	0.49	27.68	12.15	3.60
1000	12.48	18.67	20.79	32.91	1.26	0.49	27.50	12.16	3.64
1100	12.44	18.72	20.46	33.54	1.26	0.49	27.30	11.98	3.55
1200	12.40	18.75	20.61	33.11	1.27	0.48	27.21	11.62	3.66
1300	12.38	18.78	20.71	32.10	1.28	0.48	27.07	11.87	3.64
1400	12.34	18.81	20.18	31.29	1.28	0.48	26.84	11.78	3.68
1500	12.28	18.86	20.11	30.37	1.29	0.47	26.80	11.77	3.72
1600	12.24	18.90	19.49	29.08	1.30	0.47	27.17	11.80	3.69
1700	12.20	18.96	19.42	28.32	1.31	0.46	27.52	11.87	3.69
1800	12.15	19.00	18.70	27.67	1.31	0.46	27.40	11.75	3.70
1900	12.12	19.04	18.51	26.90	1.32	0.45	27.15	11.81	3.69
2000	12.08	19.10	18.00	26.18	1.33	0.45	27.07	11.73	3.64
2100	12.01	19.18	17.84	25.93	1.34	0.44	26.97	11.77	3.71
2200	11.98	19.23	17.45	25.53	1.35	0.44	26.99	11.99	3.62
2300	11.93	19.30	17.12	24.76	1.36	0.43	27.05	12.13	3.73
2400	11.87	19.35	16.81	23.67	1.37	0.43	27.11	12.18	3.65
2500	11.83	19.41	16.36	22.70	1.38	0.42	27.03	12.35	3.69
2600	11.76	19.52	15.96	21.95	1.39	0.42	26.92	12.29	3.68
2700	11.73	19.56	15.58	21.21	1.40	0.41	27.12	12.25	3.72
2800	11.66	19.64	15.37	20.55	1.41	0.41	27.02	12.21	3.66
2900	11.63	19.71	15.12	19.99	1.42	0.40	26.96	12.11	3.75
3000	11.58	19.80	14.85	19.50	1.44	0.40	26.88	12.10	3.58
3100	11.53	19.89	14.70	18.90	1.45	0.40	26.46	12.11	3.74
3200	11.50	19.95	14.49	18.44	1.46	0.39	26.41	12.24	3.62
3300	11.45	20.04	14.38	18.16	1.48	0.39	26.47	12.39	3.86
3400	11.44	20.11	14.30	17.88	1.49	0.38	26.32	12.52	3.75
3500	11.37	20.19	14.07	17.63	1.50	0.38	26.41	12.45	3.70
3600	11.38	20.24	14.02	17.32	1.51	0.38	26.15	12.54	3.82
3700	11.31	20.34	13.76	17.07	1.52	0.37	25.76	12.49	3.72
3800	11.29	20.41	13.64	16.83	1.54	0.37	25.54	12.35	3.78
4000	11.22	20.59	13.45	16.25	1.57	0.37	25.41	12.27	3.69

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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 = 60mA, Vd = 4.99V @Temperature = -45degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	1dB Comp. Output	Noise Figure
					K	Delta			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(dB)
50	13.02	18.68	22.84	50.10	1.22	0.52	34.64	16.83	3.61
100	13.05	18.74	22.15	40.76	1.22	0.52	34.81	16.91	3.74
200	13.01	18.77	22.15	37.62	1.22	0.52	34.89	16.81	3.66
300	12.99	18.74	22.64	46.77	1.22	0.52	34.51	16.75	3.75
400	12.95	18.78	23.74	48.88	1.23	0.51	34.12	16.96	3.76
500	12.92	18.77	23.25	43.80	1.23	0.51	33.85	16.89	3.73
600	12.89	18.80	23.58	43.68	1.24	0.51	33.75	16.80	3.72
700	12.85	18.80	22.83	44.63	1.24	0.50	33.97	16.90	3.72
800	12.80	18.82	23.04	43.08	1.24	0.50	34.07	16.91	3.80
900	12.77	18.85	22.16	41.42	1.25	0.50	33.96	16.92	3.70
1000	12.73	18.87	22.41	44.04	1.25	0.49	33.76	16.94	3.73
1100	12.69	18.89	21.95	43.76	1.26	0.49	33.58	16.80	3.67
1200	12.64	18.92	22.20	39.77	1.27	0.49	33.45	16.52	3.73
1300	12.62	18.96	22.31	37.48	1.27	0.48	33.16	16.65	3.74
1400	12.57	19.00	21.69	36.34	1.28	0.48	32.86	16.60	3.78
1500	12.51	19.03	21.57	35.36	1.29	0.47	32.78	16.57	3.82
1600	12.47	19.09	20.88	33.82	1.29	0.47	33.15	16.63	3.81
1700	12.42	19.12	20.77	33.05	1.30	0.46	33.42	16.68	3.79
1800	12.38	19.18	19.99	32.24	1.31	0.46	33.16	16.60	3.81
1900	12.35	19.23	19.75	30.95	1.32	0.45	32.83	16.60	3.77
2000	12.31	19.28	19.18	29.92	1.33	0.45	32.70	16.59	3.74
2100	12.24	19.35	19.01	29.57	1.34	0.44	32.55	16.54	3.82
2200	12.21	19.42	18.53	28.95	1.35	0.44	32.29	16.71	3.73
2300	12.15	19.46	18.19	27.72	1.36	0.43	32.10	16.71	3.84
2400	12.09	19.53	17.86	26.31	1.37	0.43	31.82	16.72	3.77
2500	12.06	19.58	17.35	24.99	1.38	0.42	31.46	16.75	3.81
2600	11.98	19.68	16.92	24.01	1.39	0.42	31.09	16.72	3.81
2700	11.95	19.74	16.54	23.10	1.40	0.41	31.08	16.68	3.84
2800	11.88	19.82	16.31	22.28	1.42	0.41	30.90	16.61	3.78
2900	11.85	19.89	16.01	21.53	1.43	0.40	30.74	16.49	3.85
3000	11.80	19.95	15.73	20.95	1.44	0.40	30.54	16.44	3.73
3100	11.75	20.05	15.56	20.25	1.45	0.39	29.96	16.20	3.83
3200	11.72	20.11	15.34	19.69	1.46	0.39	29.80	16.30	3.74
3300	11.65	20.21	15.23	19.39	1.48	0.39	29.60	16.33	3.99
3400	11.65	20.28	15.12	19.02	1.49	0.38	29.40	16.25	3.91
3500	11.58	20.33	14.89	18.73	1.50	0.38	29.37	16.17	3.81
3600	11.58	20.40	14.83	18.36	1.51	0.38	29.13	16.10	3.96
3700	11.52	20.52	14.53	18.06	1.53	0.37	28.83	15.95	3.87
3800	11.50	20.57	14.43	17.80	1.54	0.37	28.68	15.71	3.93
4000	11.42	20.75	14.23	17.14	1.57	0.36	28.47	15.44	3.80

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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 = 50mA, Vd = 4.44V @Temperature = +85degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	1dB Comp. Output	Noise Figure
					K	Delta			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(dB)
50	12.67	18.60	22.11	34.40	1.24	0.51	30.59	15.11	4.70
100	12.69	18.51	22.54	37.61	1.23	0.51	30.78	15.21	4.84
200	12.65	18.55	23.89	46.90	1.24	0.51	31.03	15.11	4.72
300	12.62	18.57	22.89	40.88	1.24	0.50	30.70	15.01	4.86
400	12.57	18.59	22.36	35.65	1.24	0.50	30.30	15.15	4.87
500	12.54	18.61	21.56	34.22	1.25	0.50	30.08	15.10	4.87
600	12.49	18.63	21.76	33.61	1.25	0.49	29.99	15.03	4.80
700	12.44	18.64	21.17	32.94	1.26	0.49	30.22	15.07	4.84
800	12.39	18.68	21.29	31.92	1.27	0.49	30.38	15.13	4.89
900	12.37	18.72	20.48	30.85	1.27	0.48	30.37	15.11	4.85
1000	12.31	18.73	20.68	30.29	1.28	0.48	30.10	15.14	4.85
1100	12.26	18.79	20.23	29.86	1.29	0.47	29.87	14.95	4.83
1200	12.21	18.82	20.17	29.23	1.29	0.47	29.71	14.68	4.91
1300	12.18	18.84	20.01	28.68	1.30	0.47	29.49	14.75	4.89
1400	12.13	18.90	19.51	28.41	1.31	0.46	29.17	14.74	4.95
1500	12.07	18.96	19.43	28.09	1.32	0.45	29.13	14.69	4.99
1600	12.03	19.00	18.95	27.44	1.33	0.45	29.59	14.69	4.99
1700	11.98	19.07	18.97	26.90	1.34	0.44	30.02	14.80	4.99
1800	11.93	19.10	18.40	26.35	1.34	0.44	29.70	14.67	4.98
1900	11.89	19.17	18.17	25.69	1.35	0.44	29.31	14.71	4.97
2000	11.85	19.26	17.65	24.96	1.37	0.43	29.14	14.63	4.93
2100	11.79	19.32	17.47	24.27	1.38	0.42	28.89	14.63	5.03
2200	11.74	19.37	17.00	23.50	1.39	0.42	28.73	14.72	4.90
2300	11.69	19.46	16.63	22.74	1.40	0.41	28.57	14.81	5.04
2400	11.63	19.55	16.35	22.00	1.41	0.41	28.39	14.74	4.97
2500	11.58	19.60	15.99	21.29	1.42	0.40	28.13	14.76	4.98
2600	11.50	19.71	15.66	20.65	1.44	0.40	27.80	14.73	5.06
2700	11.47	19.80	15.34	20.03	1.45	0.39	27.90	14.60	5.02
2800	11.40	19.87	15.17	19.56	1.47	0.39	27.72	14.52	5.04
2900	11.36	19.94	14.87	19.09	1.48	0.38	27.55	14.38	5.06
3000	11.30	20.05	14.55	18.67	1.50	0.38	27.32	14.36	4.93
3100	11.24	20.14	14.32	18.16	1.51	0.37	26.81	14.18	5.12
3200	11.20	20.22	13.99	17.66	1.53	0.37	26.62	14.26	4.96
3300	11.13	20.32	13.76	17.27	1.55	0.37	26.47	14.21	5.22
3400	11.11	20.42	13.54	16.87	1.56	0.36	26.28	14.14	5.17
3500	11.04	20.51	13.29	16.56	1.58	0.36	26.20	14.02	5.05
3600	11.04	20.56	13.17	16.22	1.58	0.36	25.98	13.89	5.28
3700	10.95	20.69	12.90	15.95	1.61	0.35	25.69	13.72	5.04
3800	10.94	20.78	12.78	15.70	1.62	0.35	25.55	13.47	5.25
4000	10.84	20.94	12.62	15.32	1.66	0.35	25.36	13.13	5.11

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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 = 4.32V @Temperature = +85degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	1dB Comp. Output	Noise Figure
					K	Delta			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(dB)
50	12.45	18.40	20.73	29.16	1.24	0.51	26.63	12.38	4.66
100	12.48	18.40	21.12	30.25	1.24	0.51	26.82	12.58	4.78
200	12.44	18.37	22.27	33.14	1.24	0.51	27.01	12.42	4.69
300	12.40	18.42	21.39	32.31	1.24	0.50	26.77	12.29	4.79
400	12.36	18.45	21.00	29.88	1.25	0.50	26.42	12.49	4.83
500	12.32	18.47	20.34	29.02	1.25	0.50	26.32	12.47	4.80
600	12.26	18.49	20.50	28.88	1.26	0.49	26.27	12.31	4.77
700	12.22	18.50	20.02	28.40	1.26	0.49	26.56	12.47	4.80
800	12.18	18.53	20.08	27.88	1.27	0.48	26.76	12.50	4.85
900	12.15	18.56	19.42	27.17	1.27	0.48	26.75	12.54	4.81
1000	12.10	18.59	19.55	26.87	1.28	0.48	26.55	12.59	4.83
1100	12.05	18.64	19.18	26.64	1.29	0.47	26.33	12.29	4.76
1200	12.00	18.67	19.13	26.10	1.30	0.47	26.20	12.01	4.87
1300	11.97	18.71	18.98	25.72	1.30	0.46	26.03	12.18	4.87
1400	11.92	18.75	18.52	25.57	1.31	0.46	25.78	12.05	4.89
1500	11.87	18.80	18.47	25.23	1.32	0.45	25.77	12.07	4.93
1600	11.81	18.87	18.05	24.94	1.33	0.45	26.21	12.08	4.93
1700	11.78	18.90	18.08	24.50	1.34	0.44	26.63	12.18	4.93
1800	11.72	18.97	17.53	24.09	1.35	0.44	26.45	12.03	4.93
1900	11.69	19.01	17.33	23.58	1.36	0.44	26.14	12.10	4.93
2000	11.66	19.10	16.86	22.94	1.36	0.43	26.02	12.09	4.85
2100	11.58	19.16	16.66	22.48	1.38	0.42	25.86	12.03	4.98
2200	11.54	19.24	16.24	21.87	1.39	0.42	25.83	12.23	4.84
2300	11.49	19.32	15.93	21.22	1.40	0.41	25.84	12.38	5.01
2400	11.42	19.40	15.67	20.65	1.42	0.41	25.85	12.34	4.93
2500	11.37	19.47	15.32	20.06	1.43	0.40	25.78	12.47	4.93
2600	11.31	19.55	15.02	19.48	1.44	0.40	25.55	12.37	4.99
2700	11.28	19.61	14.70	18.96	1.45	0.40	25.74	12.34	4.99
2800	11.20	19.71	14.53	18.54	1.47	0.39	25.60	12.23	4.95
2900	11.18	19.79	14.25	18.09	1.48	0.39	25.48	12.14	5.03
3000	11.11	19.90	13.95	17.74	1.50	0.38	25.35	12.16	4.87
3100	11.04	19.99	13.77	17.29	1.51	0.38	24.92	12.06	5.06
3200	11.01	20.07	13.43	16.85	1.52	0.37	24.82	12.24	4.90
3300	10.95	20.18	13.21	16.51	1.54	0.37	24.77	12.31	5.16
3400	10.92	20.27	13.02	16.13	1.55	0.37	24.65	12.31	5.10
3500	10.85	20.37	12.78	15.84	1.57	0.36	24.59	12.25	4.99
3600	10.85	20.42	12.65	15.54	1.58	0.36	24.36	12.15	5.20
3700	10.76	20.54	12.41	15.32	1.60	0.36	24.08	12.09	4.98
3800	10.74	20.63	12.31	15.10	1.62	0.35	23.88	11.89	5.18
4000	10.65	20.82	12.15	14.74	1.65	0.35	23.76	11.72	5.01

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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 = 60mA, Vd = 4.57V @Temperature = +85degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	1dB Comp. Output	Noise Figure
					K	Delta			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(dB)
50	12.79	18.74	23.04	41.62	1.24	0.50	33.38	16.46	4.76
100	12.82	18.61	23.55	50.13	1.23	0.51	33.57	16.50	4.90
200	12.77	18.65	25.01	44.30	1.23	0.51	33.81	16.54	4.78
300	12.74	18.69	23.86	42.01	1.24	0.50	33.38	16.50	4.89
400	12.69	18.69	23.32	39.84	1.24	0.50	32.90	16.65	4.93
500	12.65	18.69	22.39	38.49	1.25	0.50	32.58	16.60	4.93
600	12.60	18.72	22.58	37.53	1.25	0.50	32.38	16.51	4.87
700	12.56	18.73	21.91	36.54	1.26	0.49	32.54	16.58	4.93
800	12.52	18.78	22.10	35.00	1.27	0.49	32.65	16.62	4.97
900	12.49	18.80	21.23	33.62	1.27	0.48	32.52	16.57	4.90
1000	12.44	18.81	21.38	32.98	1.27	0.48	32.25	16.61	4.92
1100	12.39	18.87	20.88	32.41	1.28	0.48	32.03	16.44	4.87
1200	12.34	18.90	20.84	31.59	1.29	0.47	31.87	16.25	4.95
1300	12.30	18.95	20.63	30.92	1.30	0.47	31.55	16.28	4.95
1400	12.25	18.99	20.12	30.62	1.31	0.46	31.18	16.26	5.00
1500	12.20	19.04	20.08	30.13	1.32	0.46	31.11	16.21	5.06
1600	12.14	19.10	19.54	29.32	1.33	0.45	31.57	16.24	5.04
1700	12.09	19.14	19.55	28.66	1.33	0.45	31.87	16.28	5.04
1800	12.04	19.21	18.93	27.98	1.35	0.44	31.45	16.23	5.03
1900	12.01	19.26	18.71	27.14	1.35	0.44	31.02	16.21	5.03
2000	11.96	19.34	18.16	26.28	1.36	0.43	30.78	16.18	4.98
2100	11.90	19.41	17.99	25.49	1.38	0.42	30.54	16.15	5.10
2200	11.85	19.47	17.51	24.61	1.39	0.42	30.27	16.17	4.97
2300	11.80	19.54	17.12	23.75	1.40	0.41	29.98	16.10	5.11
2400	11.74	19.63	16.83	22.92	1.41	0.41	29.66	16.01	5.06
2500	11.69	19.68	16.41	22.14	1.42	0.40	29.36	15.98	5.05
2600	11.62	19.77	16.08	21.43	1.44	0.40	28.93	15.95	5.12
2700	11.59	19.86	15.74	20.77	1.45	0.39	28.95	15.90	5.11
2800	11.51	19.95	15.55	20.25	1.47	0.39	28.77	15.78	5.10
2900	11.48	20.01	15.26	19.70	1.48	0.38	28.53	15.73	5.16
3000	11.41	20.11	14.96	19.25	1.50	0.38	28.28	15.58	5.00
3100	11.36	20.24	14.70	18.72	1.52	0.37	27.75	15.31	5.16
3200	11.32	20.30	14.34	18.19	1.53	0.37	27.49	15.27	5.04
3300	11.25	20.40	14.10	17.76	1.55	0.37	27.33	15.21	5.31
3400	11.23	20.49	13.89	17.32	1.56	0.36	27.13	15.05	5.24
3500	11.14	20.58	13.63	16.98	1.58	0.36	27.06	14.93	5.11
3600	11.14	20.64	13.50	16.63	1.58	0.36	26.82	14.79	5.36
3700	11.06	20.77	13.22	16.35	1.61	0.35	26.53	14.59	5.13
3800	11.05	20.85	13.10	16.08	1.62	0.35	26.39	14.35	5.31
4000	10.95	21.04	12.91	15.67	1.66	0.34	26.15	13.94	5.19

REV. X1
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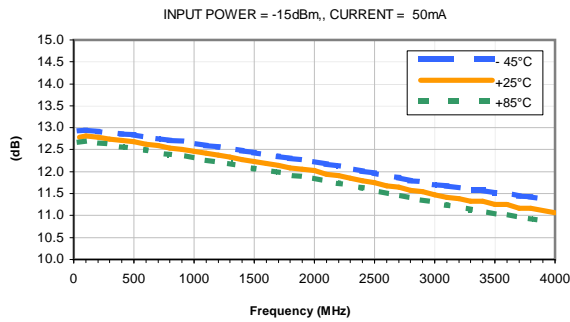


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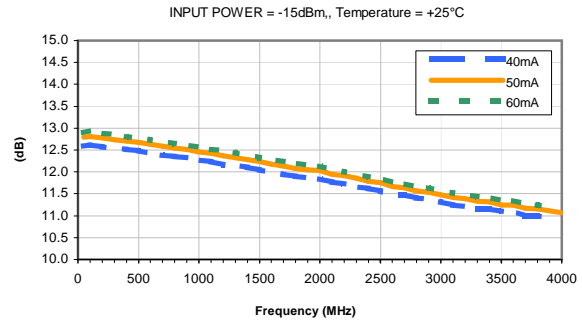


Typical Performance Curves

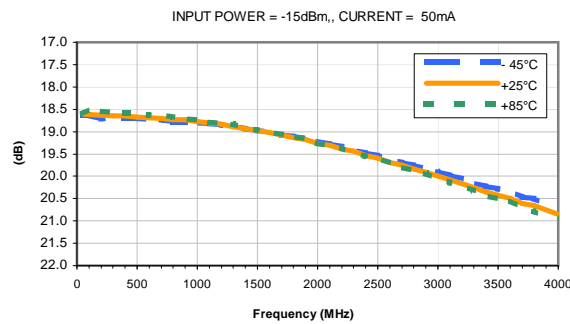
GAIN vs. TEMPERATURE



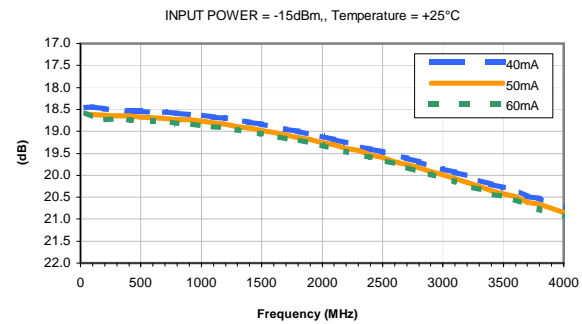
GAIN vs. CURRENT



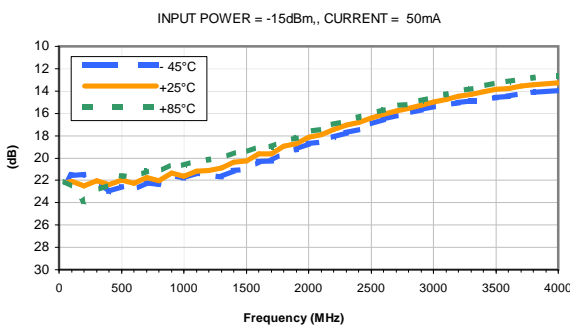
ISOLATION vs. TEMPERATURE



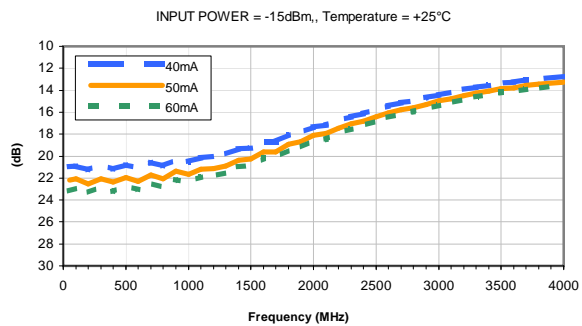
ISOLATION vs. CURRENT



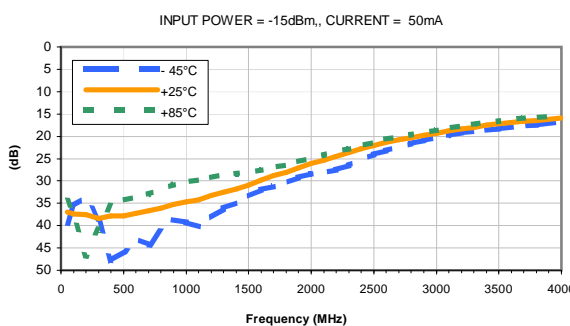
INPUT RETURN LOSS vs. TEMPERATURE



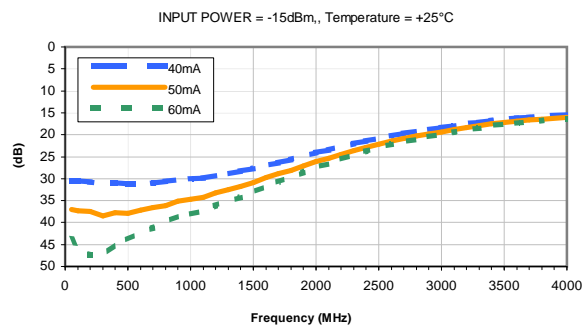
INPUT RETURN LOSS vs. CURRENT



OUTPUT RETURN LOSS vs. TEMPERATURE



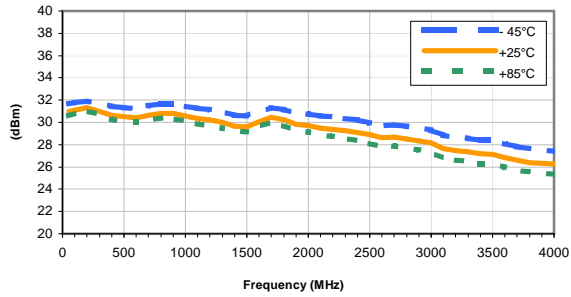
OUTPUT RETURN LOSS vs. CURRENT



Typical Performance Curves

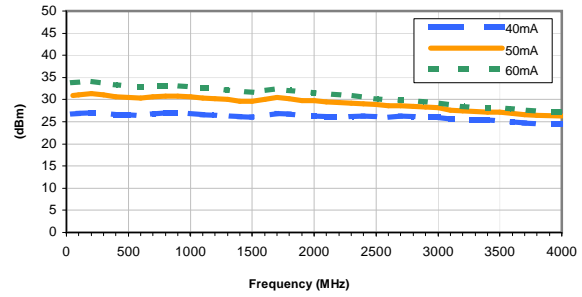
OUTPUT IP3 vs. TEMPERATURE

INPUT POWER = -15dBm, CURRENT = 50mA



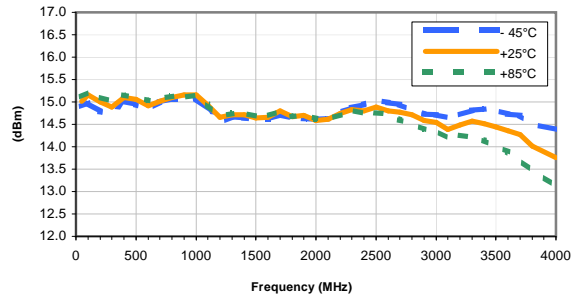
OUTPUT IP3 vs. CURRENT

INPUT POWER = -15dBm, Temperature = +25°C



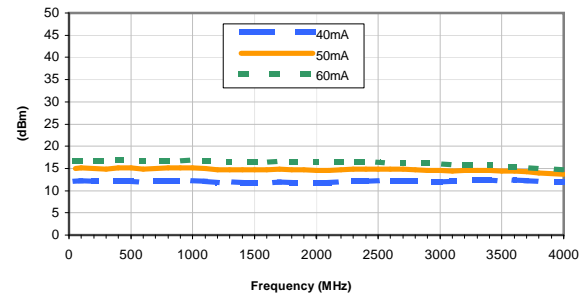
OUTPUT POWER at 1dB Compression vs. TEMPERATURE

CURRENT = 50mA



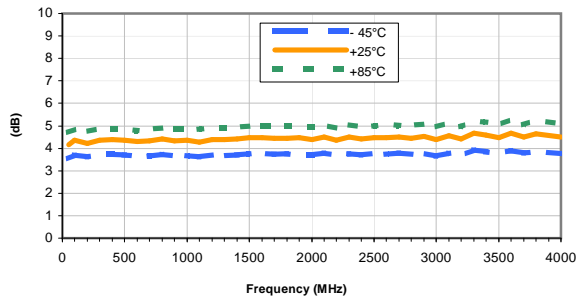
OUTPUT POWER at 1dB Compression vs. CURRENT

Temperature = +25°C



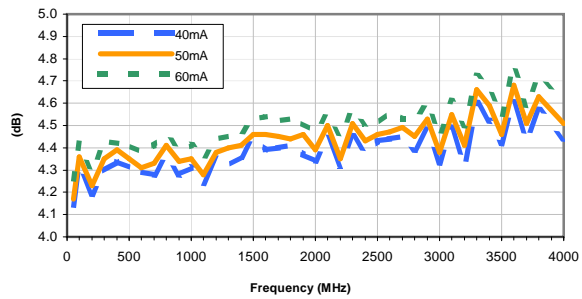
Noise Figure vs. TEMPERATURE

CURRENT = 50mA



Noise Figure vs. CURRENT

Temperature = +25°C



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