

# MMIC Amplifier

# GALI-55+

## 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 = 4.49V @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	23.25	26.05	31.75	26.54	1.05	0.72	30.45	16.38	2.82
100	23.25	26.27	30.62	26.24	1.06	0.71	30.12	16.49	2.97
200	23.12	26.15	30.29	25.15	1.06	0.70	30.59	16.32	2.85
300	22.99	26.22	29.76	24.40	1.06	0.69	30.28	16.23	3.03
400	22.85	26.25	29.49	23.43	1.07	0.67	30.19	16.43	2.94
500	22.70	26.12	29.30	22.70	1.07	0.67	29.89	16.42	2.93
600	22.52	26.05	29.30	22.18	1.08	0.66	29.94	16.32	2.88
700	22.35	26.04	28.43	21.41	1.08	0.65	30.37	16.24	2.95
800	22.15	25.94	28.09	21.12	1.09	0.64	30.38	16.30	2.97
900	21.94	25.93	27.00	20.82	1.10	0.63	30.61	16.34	2.94
1000	21.74	25.89	26.68	20.41	1.10	0.62	30.74	16.25	2.92
1100	21.52	25.89	25.69	20.10	1.11	0.60	30.70	15.99	2.93
1200	21.30	25.79	25.28	19.84	1.12	0.59	30.55	15.68	2.97
1300	21.05	25.79	24.48	19.66	1.13	0.57	30.54	15.74	2.97
1400	20.86	25.69	23.64	19.43	1.14	0.57	30.19	15.78	3.03
1500	20.64	25.65	22.76	19.38	1.15	0.55	30.78	15.75	3.05
1600	20.40	25.61	22.09	19.28	1.16	0.54	30.81	15.74	3.04
1700	20.20	25.55	21.45	19.24	1.17	0.53	31.98	15.74	2.94
1800	19.98	25.50	20.66	19.13	1.18	0.52	31.71	15.61	3.07
1900	19.76	25.36	20.00	19.06	1.18	0.51	31.10	15.79	2.98
2000	19.54	25.44	19.42	18.97	1.20	0.50	31.23	15.69	2.94
2100	19.32	25.36	18.94	19.10	1.21	0.49	31.24	15.71	3.07
2200	19.09	25.31	18.42	19.22	1.23	0.48	31.45	15.78	2.94
2300	18.91	25.26	17.69	19.21	1.24	0.47	31.25	15.91	3.02
2400	18.72	25.21	17.29	19.34	1.25	0.46	31.31	16.01	3.03
2500	18.53	25.13	16.72	19.32	1.25	0.45	31.04	15.95	2.96
2600	18.34	25.07	16.35	19.38	1.26	0.44	30.94	15.88	3.04
2700	18.16	25.04	15.91	19.52	1.27	0.44	30.77	15.83	3.05
2800	17.97	24.99	15.62	19.71	1.29	0.43	30.71	15.77	3.03
2900	17.83	24.96	15.09	19.81	1.29	0.42	30.80	15.67	3.03
3000	17.65	24.95	14.75	19.93	1.31	0.41	30.46	15.64	2.94
3100	17.48	24.86	14.58	20.12	1.31	0.41	30.34	15.52	3.11
3200	17.33	24.91	14.23	20.33	1.33	0.40	30.07	15.54	3.06
3300	17.20	24.80	13.80	20.43	1.33	0.40	30.00	15.41	3.18
3400	17.05	24.76	13.59	20.80	1.34	0.39	29.95	15.25	3.17
3500	16.90	24.79	13.37	21.09	1.36	0.38	29.70	15.02	3.16
3600	16.79	24.70	13.16	21.11	1.36	0.38	29.31	14.94	3.31
3700	16.65	24.67	13.01	21.60	1.37	0.38	29.27	14.70	3.17
3800	16.53	24.66	12.87	21.79	1.38	0.37	28.89	14.65	3.39
4000	16.33	24.61	12.48	22.62	1.39	0.37	28.24	14.02	3.29

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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 = 4.45V @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	22.87	26.01	24.17	39.61	1.06	0.70	27.31	13.70	2.75
100	22.86	26.03	23.86	39.34	1.06	0.69	26.96	13.80	2.90
200	22.77	25.86	23.68	33.66	1.06	0.70	27.35	13.64	2.83
300	22.61	25.70	23.56	30.51	1.06	0.70	27.12	13.51	2.96
400	22.48	25.79	23.62	27.54	1.07	0.68	27.02	13.67	2.91
500	22.31	25.63	23.80	26.09	1.07	0.68	26.78	13.80	2.86
600	22.18	25.62	24.32	24.88	1.07	0.67	26.86	13.66	2.84
700	22.00	25.66	23.54	24.05	1.08	0.65	27.23	13.68	2.85
800	21.79	25.54	23.47	23.22	1.08	0.65	27.24	13.71	2.93
900	21.64	25.60	23.05	22.65	1.09	0.63	27.48	13.84	2.85
1000	21.42	25.52	22.75	22.21	1.10	0.62	27.56	13.70	2.87
1100	21.24	25.52	22.03	21.69	1.11	0.60	27.47	13.42	2.87
1200	20.99	25.46	21.70	21.34	1.12	0.59	27.43	13.20	2.95
1300	20.77	25.39	21.35	20.86	1.12	0.58	27.45	13.17	2.87
1400	20.56	25.33	20.85	20.54	1.13	0.57	27.22	13.20	2.98
1500	20.37	25.31	20.37	20.29	1.14	0.56	27.74	13.27	2.98
1600	20.13	25.31	19.71	20.16	1.15	0.54	27.82	13.32	2.97
1700	19.92	25.22	19.30	20.00	1.16	0.53	28.69	13.33	2.85
1800	19.73	25.18	18.78	19.79	1.17	0.52	28.58	13.18	3.01
1900	19.51	25.20	18.17	19.73	1.19	0.51	28.17	13.29	2.93
2000	19.32	25.17	17.64	19.55	1.19	0.50	28.33	13.28	2.86
2100	19.07	25.08	17.22	19.64	1.20	0.49	28.38	13.35	2.99
2200	18.87	25.04	16.85	19.67	1.22	0.48	28.64	13.56	2.87
2300	18.66	24.97	16.31	19.52	1.22	0.47	28.67	13.62	2.97
2400	18.49	24.90	15.99	19.66	1.23	0.46	28.83	13.62	2.91
2500	18.31	24.99	15.47	19.55	1.25	0.45	28.58	13.84	2.91
2600	18.13	24.89	15.10	19.56	1.25	0.44	28.56	13.81	2.94
2700	17.93	24.82	14.73	19.66	1.26	0.43	28.44	13.76	2.96
2800	17.75	24.84	14.48	19.75	1.28	0.42	28.41	13.63	2.92
2900	17.60	24.77	14.09	19.76	1.29	0.42	28.42	13.61	2.97
3000	17.45	24.70	13.83	19.86	1.29	0.41	28.27	13.66	2.89
3100	17.27	24.73	13.55	20.03	1.31	0.40	28.24	13.74	3.09
3200	17.11	24.68	13.31	20.13	1.32	0.40	28.27	13.81	3.02
3300	17.00	24.67	13.00	20.19	1.32	0.39	28.34	13.86	3.12
3400	16.84	24.63	12.82	20.46	1.34	0.39	28.22	13.72	3.08
3500	16.71	24.64	12.57	20.66	1.35	0.38	28.15	13.54	3.07
3600	16.59	24.56	12.32	20.63	1.35	0.38	27.75	13.55	3.19
3700	16.44	24.58	12.19	21.09	1.37	0.37	27.55	13.39	3.09
3800	16.32	24.55	12.12	21.35	1.38	0.37	27.30	13.36	3.31
4000	16.14	24.53	11.75	21.94	1.39	0.36	27.00	12.88	3.15

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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 = 4.53V @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	23.48	26.05	44.00	22.32	1.04	0.74	32.91	18.03	2.86
100	23.47	26.28	41.86	22.53	1.05	0.72	32.55	18.01	3.05
200	23.36	26.34	41.33	22.04	1.05	0.71	33.08	17.92	2.88
300	23.24	26.47	35.81	21.55	1.06	0.69	32.73	17.92	3.12
400	23.08	26.41	34.57	20.98	1.07	0.68	32.60	18.00	2.98
500	22.92	26.44	34.40	20.52	1.08	0.67	32.27	17.93	3.03
600	22.73	26.29	33.48	20.17	1.08	0.66	32.36	17.74	2.90
700	22.54	26.22	32.45	19.86	1.08	0.65	32.74	17.73	3.02
800	22.35	26.20	31.53	19.54	1.09	0.64	32.81	17.77	2.99
900	22.14	26.16	30.39	19.36	1.10	0.63	33.00	17.78	3.00
1000	21.92	26.12	29.71	19.16	1.11	0.61	33.19	17.77	2.95
1100	21.72	26.02	28.42	18.89	1.11	0.61	32.97	17.59	3.00
1200	21.48	26.06	27.83	18.78	1.13	0.59	32.80	17.45	3.01
1300	21.26	25.98	26.83	18.63	1.13	0.58	32.76	17.55	3.02
1400	21.04	25.85	25.71	18.52	1.14	0.57	32.28	17.49	3.09
1500	20.81	25.85	24.70	18.47	1.15	0.55	32.85	17.43	3.10
1600	20.58	25.83	23.89	18.39	1.17	0.54	32.89	17.47	3.10
1700	20.36	25.75	23.13	18.49	1.17	0.53	34.29	17.44	2.98
1800	20.13	25.67	22.26	18.41	1.18	0.52	33.98	17.32	3.12
1900	19.90	25.61	21.42	18.48	1.20	0.51	33.20	17.41	3.05
2000	19.71	25.57	20.78	18.34	1.20	0.50	33.16	17.39	3.01
2100	19.48	25.52	20.15	18.53	1.22	0.49	32.87	17.34	3.13
2200	19.27	25.45	19.63	18.63	1.23	0.48	32.84	17.33	3.01
2300	19.05	25.42	18.73	18.68	1.24	0.47	32.63	17.29	3.08
2400	18.86	25.36	18.29	18.90	1.25	0.46	32.76	17.27	3.07
2500	18.67	25.27	17.65	18.93	1.26	0.45	32.38	17.02	3.00
2600	18.49	25.25	17.28	19.01	1.27	0.44	32.24	17.02	3.13
2700	18.31	25.20	16.77	19.21	1.28	0.44	31.99	16.92	3.08
2800	18.12	25.11	16.46	19.34	1.29	0.43	31.89	16.76	3.09
2900	17.96	25.08	15.84	19.52	1.30	0.42	31.66	16.66	3.10
3000	17.80	25.02	15.51	19.67	1.30	0.42	31.66	16.58	3.05
3100	17.63	24.99	15.30	19.90	1.32	0.41	31.23	16.34	3.17
3200	17.48	24.97	14.87	20.14	1.33	0.40	31.00	16.30	3.14
3300	17.34	24.93	14.49	20.30	1.33	0.40	30.82	16.15	3.23
3400	17.18	24.87	14.26	20.65	1.34	0.40	30.55	16.02	3.24
3500	17.03	24.86	14.03	20.96	1.36	0.39	30.48	15.79	3.23
3600	16.94	24.75	13.73	21.01	1.35	0.39	30.13	15.67	3.38
3700	16.80	24.78	13.58	21.49	1.37	0.38	30.07	15.44	3.23
3800	16.68	24.74	13.40	21.70	1.38	0.38	29.62	15.27	3.47
4000	16.48	24.68	13.03	22.53	1.39	0.37	28.94	14.68	3.36

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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 = 4.73V @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	23.31	26.03	30.24	26.10	1.05	0.73	31.03	16.42	2.54
100	23.32	26.44	27.92	27.87	1.06	0.70	30.61	16.41	2.67
200	23.21	26.12	27.23	27.60	1.05	0.71	31.04	16.23	2.51
300	23.10	26.18	29.34	24.48	1.06	0.70	30.95	16.29	2.61
400	22.96	26.17	29.62	23.21	1.06	0.69	30.95	16.43	2.56
500	22.83	26.09	29.05	22.51	1.06	0.68	30.70	16.43	2.53
600	22.63	26.08	29.60	21.72	1.07	0.67	30.76	16.33	2.48
700	22.46	26.04	29.17	21.03	1.08	0.66	31.20	16.32	2.55
800	22.29	26.01	28.06	20.81	1.08	0.65	31.26	16.33	2.56
900	22.09	25.91	26.98	20.67	1.09	0.64	31.49	16.33	2.50
1000	21.87	25.87	26.74	20.33	1.09	0.63	31.61	16.26	2.51
1100	21.67	25.83	25.88	20.19	1.10	0.61	31.58	15.94	2.49
1200	21.47	25.80	25.84	19.74	1.11	0.60	31.56	15.74	2.55
1300	21.24	25.73	25.18	19.44	1.12	0.59	31.47	15.83	2.54
1400	21.04	25.67	24.53	19.08	1.13	0.58	31.26	15.86	2.60
1500	20.81	25.62	23.85	18.89	1.14	0.57	31.89	15.78	2.62
1600	20.60	25.56	22.88	18.95	1.14	0.56	31.86	15.80	2.58
1700	20.39	25.56	22.23	18.92	1.16	0.54	33.01	15.86	2.48
1800	20.16	25.46	21.49	18.79	1.16	0.53	32.97	15.73	2.61
1900	19.95	25.45	20.87	18.79	1.18	0.52	32.42	15.85	2.53
2000	19.74	25.33	20.06	18.77	1.18	0.52	32.53	15.80	2.49
2100	19.53	25.30	19.68	18.71	1.19	0.50	32.55	15.79	2.58
2200	19.31	25.31	19.18	18.56	1.21	0.49	32.74	15.99	2.49
2300	19.13	25.25	18.48	18.48	1.22	0.48	32.77	16.13	2.55
2400	18.93	25.17	18.18	18.53	1.23	0.47	32.79	16.25	2.52
2500	18.74	25.14	17.66	18.46	1.24	0.46	32.61	16.23	2.48
2600	18.56	25.06	17.22	18.59	1.24	0.46	32.58	16.16	2.56
2700	18.39	24.96	16.80	18.77	1.25	0.45	32.29	16.16	2.55
2800	18.20	25.06	16.48	18.81	1.27	0.44	32.39	16.05	2.51
2900	18.07	24.97	15.85	18.92	1.27	0.43	32.26	16.00	2.54
3000	17.89	24.86	15.48	19.20	1.28	0.43	32.20	15.99	2.46
3100	17.74	24.84	15.22	19.44	1.29	0.42	32.07	16.00	2.61
3200	17.58	24.80	14.89	19.70	1.30	0.42	31.81	16.03	2.66
3300	17.47	24.78	14.51	19.88	1.30	0.41	31.93	16.02	2.65
3400	17.30	24.73	14.33	20.07	1.31	0.41	31.65	15.90	2.65
3500	17.17	24.67	14.11	20.14	1.32	0.40	31.71	15.72	2.64
3600	17.06	24.66	13.80	20.24	1.33	0.40	31.29	15.72	2.73
3700	16.93	24.64	13.58	20.64	1.34	0.39	30.94	15.43	2.65
3800	16.82	24.57	13.37	20.91	1.34	0.39	30.77	15.43	2.82
4000	16.62	24.57	13.01	21.57	1.36	0.38	30.13	14.80	2.72

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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 = 4.69V @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	22.96	25.80	23.53	37.59	1.05	0.72	27.60	13.68	2.45
100	22.98	25.77	23.26	39.22	1.05	0.72	27.22	13.71	2.62
200	22.89	25.95	22.84	36.33	1.06	0.70	27.53	13.56	2.48
300	22.79	25.94	23.77	29.68	1.06	0.69	27.51	13.58	2.58
400	22.65	25.78	24.39	26.94	1.06	0.70	27.49	13.85	2.56
500	22.50	25.84	23.96	25.71	1.07	0.68	27.28	13.70	2.49
600	22.32	25.75	24.87	24.39	1.07	0.67	27.37	13.62	2.48
700	22.18	25.66	24.59	23.31	1.07	0.67	27.79	13.63	2.49
800	21.99	25.69	23.87	22.81	1.08	0.65	27.76	13.80	2.55
900	21.79	25.63	23.49	22.47	1.09	0.64	28.00	13.74	2.45
1000	21.61	25.57	23.17	21.93	1.09	0.63	28.10	13.66	2.47
1100	21.43	25.54	22.68	21.66	1.10	0.62	28.03	13.34	2.44
1200	21.21	25.55	22.48	21.05	1.11	0.60	28.02	13.46	2.55
1300	20.99	25.45	22.23	20.57	1.12	0.59	28.06	13.20	2.46
1400	20.79	25.40	21.65	20.10	1.12	0.58	27.94	13.20	2.57
1500	20.57	25.36	21.37	19.81	1.13	0.57	28.44	13.21	2.57
1600	20.35	25.32	20.60	19.82	1.14	0.56	28.49	13.10	2.54
1700	20.16	25.27	20.08	19.78	1.15	0.55	29.26	13.24	2.43
1800	19.94	25.23	19.66	19.55	1.16	0.53	29.18	13.19	2.57
1900	19.73	25.15	19.05	19.51	1.17	0.52	28.90	13.26	2.49
2000	19.54	25.12	18.49	19.44	1.18	0.51	29.07	13.26	2.43
2100	19.33	25.08	18.04	19.36	1.19	0.50	29.19	13.20	2.54
2200	19.10	25.05	17.70	19.18	1.20	0.49	29.40	13.51	2.42
2300	18.91	25.02	17.06	18.96	1.21	0.48	29.55	13.71	2.51
2400	18.72	24.90	16.92	18.97	1.21	0.47	29.83	13.88	2.45
2500	18.54	24.92	16.39	18.76	1.23	0.46	29.64	13.81	2.45
2600	18.38	24.92	16.12	18.89	1.24	0.45	29.64	13.85	2.48
2700	18.20	24.80	15.62	18.99	1.24	0.45	29.51	13.70	2.52
2800	18.02	24.81	15.39	18.97	1.26	0.44	29.39	13.73	2.47
2900	17.87	24.77	14.80	19.01	1.26	0.43	29.50	13.72	2.51
3000	17.70	24.64	14.55	19.22	1.26	0.43	29.49	13.73	2.41
3100	17.56	24.62	14.32	19.44	1.27	0.42	29.53	13.83	2.57
3200	17.40	24.63	13.97	19.66	1.29	0.41	29.50	13.98	2.58
3300	17.27	24.63	13.73	19.83	1.30	0.41	29.76	14.12	2.60
3400	17.12	24.58	13.51	20.03	1.31	0.40	29.78	13.95	2.60
3500	16.99	24.57	13.34	20.04	1.32	0.40	29.51	13.81	2.61
3600	16.88	24.51	13.01	20.09	1.32	0.40	29.28	13.91	2.70
3700	16.75	24.50	12.84	20.50	1.33	0.39	29.10	13.81	2.62
3800	16.62	24.42	12.63	20.75	1.33	0.39	28.64	13.76	2.77
4000	16.45	24.43	12.36	21.38	1.35	0.38	28.24	13.39	2.66

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# MMIC Amplifier

# GALI-55+

## 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 = 4.77V @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	23.53	26.63	36.03	23.04	1.06	0.70	33.66	18.23	2.53
100	23.54	26.21	32.41	24.07	1.04	0.73	33.26	18.20	2.71
200	23.42	26.47	31.61	23.76	1.06	0.70	33.76	18.05	2.53
300	23.31	26.41	35.08	21.81	1.06	0.70	33.60	18.14	2.68
400	23.17	26.39	34.87	20.96	1.06	0.69	33.52	18.23	2.60
500	23.02	26.34	34.02	20.69	1.07	0.68	33.33	18.15	2.60
600	22.82	26.30	33.02	19.98	1.07	0.67	33.38	18.00	2.51
700	22.65	26.25	32.65	19.56	1.08	0.66	33.79	18.06	2.59
800	22.48	26.13	31.65	19.56	1.08	0.66	33.91	18.06	2.60
900	22.26	26.13	29.74	19.34	1.09	0.64	34.22	18.08	2.54
1000	22.06	26.03	29.54	19.22	1.09	0.63	34.39	17.99	2.53
1100	21.85	26.00	28.39	19.01	1.10	0.62	34.33	17.82	2.55
1200	21.63	26.03	28.45	18.76	1.12	0.60	34.16	17.65	2.58
1300	21.40	25.98	27.62	18.50	1.12	0.59	34.17	17.81	2.56
1400	21.20	25.89	26.86	18.29	1.13	0.58	33.82	17.71	2.62
1500	20.97	25.81	25.70	18.11	1.14	0.57	34.41	17.68	2.65
1600	20.75	25.75	24.70	18.21	1.15	0.56	34.51	17.71	2.62
1700	20.54	25.68	24.02	18.31	1.16	0.55	35.90	17.68	2.52
1800	20.30	25.67	22.92	18.15	1.17	0.53	35.90	17.57	2.64
1900	20.09	25.63	22.19	18.19	1.18	0.52	35.14	17.65	2.58
2000	19.89	25.54	21.22	18.15	1.19	0.51	35.14	17.60	2.54
2100	19.68	25.49	20.91	18.14	1.20	0.50	35.06	17.59	2.64
2200	19.45	25.44	20.35	18.05	1.21	0.49	35.21	17.68	2.51
2300	19.26	25.39	19.59	18.03	1.22	0.48	34.93	17.56	2.58
2400	19.06	25.36	19.16	18.07	1.23	0.47	35.01	17.79	2.57
2500	18.88	25.20	18.56	18.11	1.23	0.47	34.54	17.63	2.53
2600	18.69	25.17	18.11	18.23	1.24	0.46	34.47	17.67	2.58
2700	18.52	25.17	17.69	18.44	1.26	0.45	34.17	17.51	2.60
2800	18.33	25.11	17.35	18.49	1.27	0.44	33.98	17.38	2.59
2900	18.21	24.98	16.68	18.70	1.27	0.44	33.84	17.31	2.59
3000	18.03	24.97	16.15	18.98	1.28	0.43	33.62	17.21	2.52
3100	17.86	24.94	15.99	19.23	1.29	0.43	33.47	17.08	2.63
3200	17.72	24.94	15.60	19.48	1.30	0.42	32.94	17.05	2.67
3300	17.59	24.80	15.20	19.70	1.30	0.42	32.83	16.85	2.69
3400	17.43	24.78	14.92	19.88	1.31	0.41	33.01	16.75	2.70
3500	17.30	24.78	14.68	19.92	1.32	0.40	32.75	16.56	2.69
3600	17.19	24.69	14.35	20.04	1.32	0.40	32.40	16.54	2.78
3700	17.06	24.75	14.17	20.48	1.34	0.39	32.29	16.27	2.72
3800	16.95	24.67	13.95	20.77	1.35	0.39	31.77	16.22	2.90
4000	16.74	24.60	13.49	21.39	1.36	0.39	31.04	15.61	2.78

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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 = 4.31V @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	23.05	26.53	30.43	27.40	1.08	0.67	30.15	16.38	3.14
100	23.05	26.30	30.84	26.82	1.07	0.69	29.84	16.44	3.35
200	22.95	26.16	32.57	24.71	1.06	0.69	30.38	16.29	3.19
300	22.82	26.10	29.29	24.55	1.07	0.68	29.99	16.27	3.38
400	22.68	26.04	27.87	24.35	1.07	0.68	29.78	16.32	3.32
500	22.49	25.90	27.45	23.74	1.07	0.67	29.50	16.30	3.34
600	22.31	25.90	27.88	23.04	1.08	0.66	29.51	16.23	3.28
700	22.13	25.94	26.76	22.45	1.09	0.64	29.84	16.16	3.33
800	21.94	25.82	25.62	22.25	1.09	0.64	29.77	16.14	3.34
900	21.74	25.82	25.20	21.94	1.10	0.62	30.05	16.19	3.34
1000	21.51	25.72	24.89	21.50	1.11	0.61	30.09	16.13	3.30
1100	21.32	25.70	24.00	21.14	1.11	0.60	29.99	15.86	3.35
1200	21.09	25.70	23.44	20.92	1.13	0.58	29.82	15.58	3.40
1300	20.87	25.65	22.83	20.64	1.14	0.57	29.81	15.66	3.34
1400	20.63	25.59	22.12	20.37	1.15	0.56	29.40	15.70	3.44
1500	20.41	25.49	21.62	20.23	1.15	0.55	29.94	15.66	3.47
1600	20.19	25.52	20.84	20.03	1.17	0.53	30.01	15.65	3.45
1700	19.96	25.49	20.31	19.89	1.18	0.52	31.22	15.72	3.33
1800	19.73	25.37	19.77	19.70	1.19	0.51	30.98	15.59	3.51
1900	19.50	25.28	19.14	19.62	1.20	0.50	30.29	15.72	3.42
2000	19.30	25.29	18.56	19.45	1.21	0.49	30.31	15.67	3.37
2100	19.08	25.28	18.01	19.60	1.23	0.48	30.28	15.58	3.52
2200	18.86	25.19	17.49	19.62	1.23	0.47	30.18	15.56	3.38
2300	18.64	25.16	16.79	19.63	1.25	0.46	29.99	15.64	3.47
2400	18.44	25.13	16.47	19.79	1.26	0.45	29.99	15.75	3.43
2500	18.24	25.05	15.88	19.78	1.27	0.44	29.69	15.51	3.38
2600	18.07	25.00	15.56	19.85	1.28	0.43	29.61	15.49	3.49
2700	17.87	24.99	15.11	19.94	1.29	0.42	29.37	15.34	3.47
2800	17.68	24.98	14.79	20.08	1.31	0.41	29.29	15.18	3.48
2900	17.52	24.86	14.29	20.17	1.31	0.41	29.38	15.11	3.51
3000	17.34	24.85	14.02	20.35	1.32	0.40	29.02	15.04	3.42
3100	17.18	24.80	13.72	20.62	1.33	0.40	28.78	14.86	3.59
3200	17.00	24.82	13.40	20.81	1.35	0.39	28.39	14.85	3.50
3300	16.86	24.73	13.04	20.97	1.35	0.39	28.33	14.78	3.65
3400	16.70	24.76	12.86	21.29	1.37	0.38	28.04	14.47	3.64
3500	16.56	24.74	12.67	21.61	1.38	0.37	27.98	14.23	3.62
3600	16.45	24.66	12.44	21.69	1.38	0.37	27.40	14.10	3.77
3700	16.30	24.60	12.28	22.19	1.39	0.37	27.32	13.86	3.64
3800	16.17	24.57	12.20	22.38	1.40	0.36	27.02	13.81	3.90
4000	15.97	24.55	11.99	23.26	1.42	0.36	26.47	13.19	3.76

# MMIC Amplifier

# GALI-55+

## 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 = 4.27V @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	22.67	25.93	23.30	50.87	1.07	0.69	27.17	13.64	3.09
100	22.65	25.79	23.36	45.72	1.06	0.70	26.85	13.95	3.22
200	22.52	25.83	24.34	33.30	1.07	0.68	27.33	13.88	3.18
300	22.39	25.62	23.42	29.92	1.06	0.69	27.01	13.77	3.30
400	22.25	25.55	22.82	28.03	1.07	0.68	26.85	13.86	3.28
500	22.12	25.54	22.45	26.71	1.07	0.67	26.53	13.83	3.27
600	21.96	25.51	22.55	25.30	1.08	0.66	26.60	13.73	3.22
700	21.75	25.52	21.85	24.46	1.08	0.64	26.94	13.69	3.27
800	21.59	25.43	21.51	23.89	1.09	0.64	26.88	13.76	3.33
900	21.40	25.39	21.19	23.25	1.09	0.63	27.12	13.82	3.26
1000	21.18	25.39	20.93	22.79	1.10	0.61	27.20	13.71	3.29
1100	20.97	25.34	20.65	22.33	1.11	0.60	27.13	13.41	3.27
1200	20.75	25.36	20.38	21.95	1.12	0.58	27.03	13.07	3.35
1300	20.53	25.30	20.12	21.61	1.13	0.57	27.00	13.23	3.30
1400	20.34	25.21	19.45	21.20	1.14	0.56	26.76	13.26	3.41
1500	20.14	25.21	19.01	20.95	1.15	0.55	27.28	13.26	3.41
1600	19.89	25.17	18.70	20.78	1.16	0.53	27.32	13.27	3.43
1700	19.69	25.14	18.16	20.58	1.17	0.52	28.35	13.29	3.28
1800	19.47	25.07	17.70	20.29	1.18	0.51	28.17	13.21	3.46
1900	19.24	25.02	17.16	20.15	1.19	0.50	27.70	13.25	3.38
2000	19.03	24.95	16.87	19.90	1.20	0.49	27.83	13.28	3.31
2100	18.80	24.94	16.49	20.01	1.21	0.48	27.92	13.35	3.45
2200	18.59	24.86	16.09	20.02	1.22	0.47	28.05	13.51	3.30
2300	18.40	24.87	15.43	19.85	1.23	0.46	27.98	13.62	3.39
2400	18.21	24.83	15.11	19.98	1.24	0.45	28.13	13.81	3.40
2500	18.01	24.77	14.58	19.86	1.25	0.44	27.97	13.69	3.35
2600	17.81	24.80	14.40	19.85	1.27	0.43	27.78	13.65	3.42
2700	17.63	24.70	14.05	19.90	1.28	0.42	27.53	13.57	3.41
2800	17.43	24.71	13.82	20.00	1.29	0.41	27.58	13.44	3.43
2900	17.29	24.66	13.31	19.98	1.30	0.41	27.66	13.49	3.46
3000	17.13	24.60	13.00	20.07	1.30	0.40	27.46	13.44	3.33
3100	16.92	24.64	12.85	20.26	1.33	0.39	27.33	13.49	3.52
3200	16.79	24.65	12.54	20.32	1.34	0.38	27.23	13.57	3.39
3300	16.65	24.55	12.19	20.44	1.34	0.38	27.09	13.44	3.60
3400	16.50	24.56	12.01	20.64	1.35	0.38	26.97	13.28	3.56
3500	16.33	24.58	11.86	20.82	1.37	0.37	26.91	13.04	3.55
3600	16.22	24.52	11.69	20.82	1.38	0.37	26.57	12.98	3.69
3700	16.07	24.43	11.60	21.30	1.38	0.36	26.31	12.77	3.57
3800	15.97	24.47	11.49	21.52	1.40	0.36	26.04	12.75	3.80
4000	15.75	24.48	11.30	22.10	1.42	0.35	25.65	12.12	3.65

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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 = 4.35V @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	23.34	26.13	43.35	22.99	1.05	0.72	32.65	17.77	3.20
100	23.32	26.13	44.83	22.84	1.05	0.72	32.25	17.77	3.43
200	23.19	26.22	43.57	21.52	1.06	0.71	32.89	17.66	3.22
300	23.06	26.30	35.59	21.77	1.06	0.69	32.44	17.74	3.45
400	22.91	26.26	33.41	21.81	1.07	0.68	32.21	17.81	3.35
500	22.75	26.19	32.66	21.14	1.07	0.67	31.80	17.69	3.42
600	22.56	26.17	32.22	20.77	1.08	0.66	31.82	17.48	3.29
700	22.36	26.14	30.65	20.69	1.09	0.64	32.09	17.53	3.40
800	22.17	26.12	29.81	20.50	1.09	0.63	31.97	17.55	3.39
900	21.96	26.08	28.59	20.31	1.10	0.62	32.22	17.50	3.40
1000	21.74	26.02	28.04	20.15	1.11	0.61	32.22	17.45	3.34
1100	21.52	25.97	26.70	20.01	1.12	0.60	32.06	17.34	3.38
1200	21.28	25.93	26.02	19.83	1.13	0.58	31.83	17.16	3.44
1300	21.04	25.89	25.37	19.64	1.14	0.57	31.66	17.24	3.44
1400	20.83	25.78	24.44	19.44	1.15	0.56	31.22	17.18	3.52
1500	20.61	25.81	23.55	19.23	1.16	0.54	31.62	17.11	3.55
1600	20.36	25.72	22.67	19.22	1.17	0.53	31.76	17.16	3.50
1700	20.14	25.64	22.06	19.12	1.18	0.52	33.12	17.13	3.40
1800	19.91	25.60	21.26	19.00	1.20	0.51	32.59	17.00	3.57
1900	19.68	25.56	20.44	18.98	1.21	0.50	31.74	17.01	3.50
2000	19.46	25.45	19.74	18.88	1.21	0.49	31.66	17.04	3.44
2100	19.23	25.42	19.16	19.06	1.23	0.48	31.41	16.88	3.59
2200	19.01	25.39	18.65	19.10	1.24	0.47	31.21	16.84	3.45
2300	18.80	25.33	17.88	19.15	1.25	0.46	30.90	16.72	3.52
2400	18.61	25.24	17.46	19.38	1.26	0.45	30.73	16.60	3.53
2500	18.40	25.09	16.75	19.43	1.26	0.45	30.46	16.43	3.45
2600	18.21	25.19	16.37	19.52	1.29	0.43	30.16	16.33	3.58
2700	18.02	25.12	15.88	19.66	1.30	0.43	30.11	16.19	3.54
2800	17.82	25.11	15.62	19.84	1.31	0.42	29.99	15.99	3.55
2900	17.68	24.95	15.04	20.00	1.31	0.42	29.86	15.90	3.57
3000	17.50	25.00	14.71	20.18	1.33	0.40	29.50	15.70	3.51
3100	17.31	24.93	14.41	20.51	1.34	0.40	29.16	15.55	3.65
3200	17.16	24.86	14.05	20.74	1.34	0.39	28.83	15.51	3.59
3300	17.02	24.83	13.70	20.96	1.35	0.39	28.74	15.32	3.71
3400	16.87	24.80	13.45	21.34	1.36	0.38	28.34	15.10	3.70
3500	16.69	24.84	13.23	21.65	1.39	0.37	28.22	14.88	3.71
3600	16.59	24.77	12.95	21.81	1.39	0.37	27.95	14.74	3.87
3700	16.43	24.71	12.86	22.31	1.40	0.37	27.64	14.47	3.70
3800	16.32	24.67	12.76	22.59	1.41	0.37	27.14	14.35	4.00
4000	16.11	24.68	12.45	23.42	1.43	0.36	26.68	13.75	3.85

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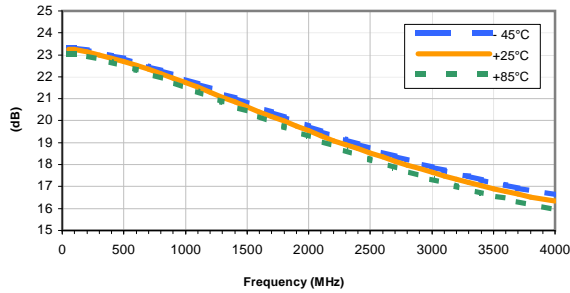
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## Typical Performance Curves

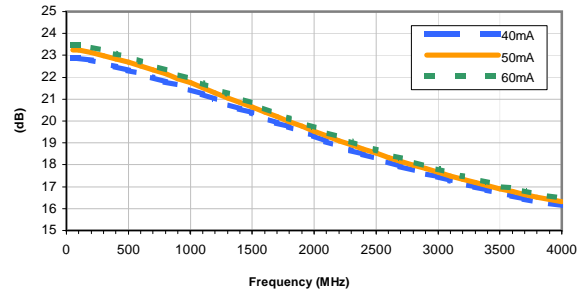
**GAIN vs. TEMPERATURE**

INPUT POWER = -25dBm, CURRENT = 50mA



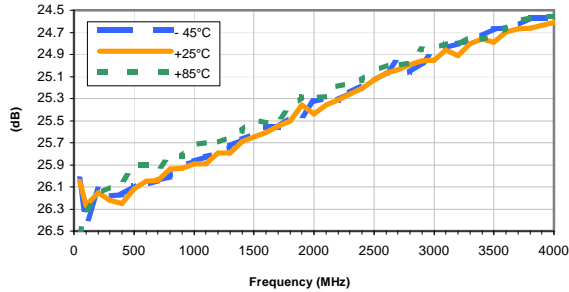
**GAIN vs. CURRENT**

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



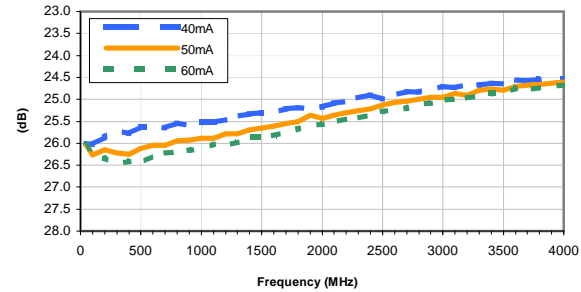
**ISOLATION vs. TEMPERATURE**

INPUT POWER = -25dBm, CURRENT = 50mA



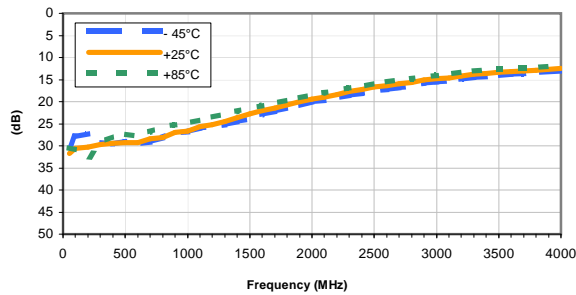
**ISOLATION vs. CURRENT**

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



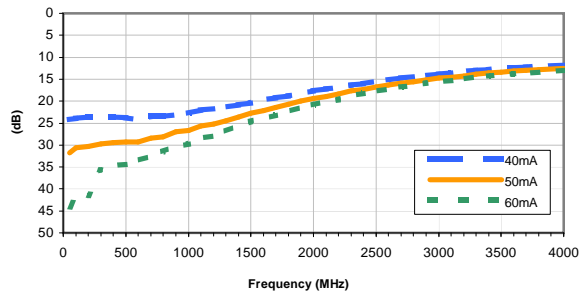
**INPUT RETURN LOSS vs. TEMPERATURE**

INPUT POWER = -25dBm, CURRENT = 50mA



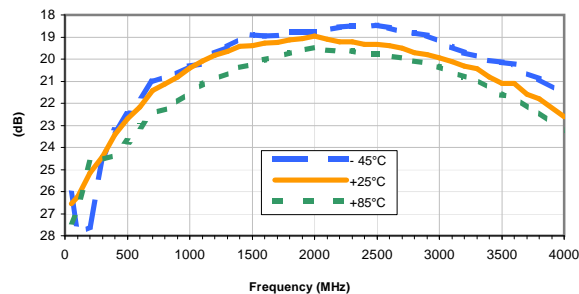
**INPUT RETURN LOSS vs. CURRENT**

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



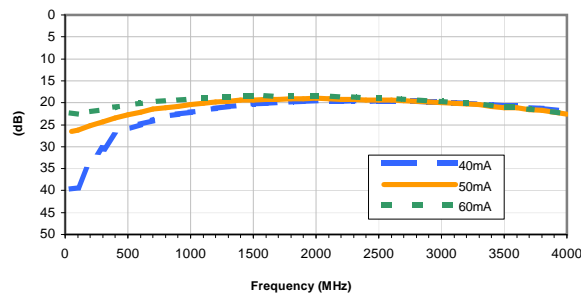
**OUTPUT RETURN LOSS vs. TEMPERATURE**

INPUT POWER = -25dBm, CURRENT = 50mA



**OUTPUT RETURN LOSS vs. CURRENT**

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



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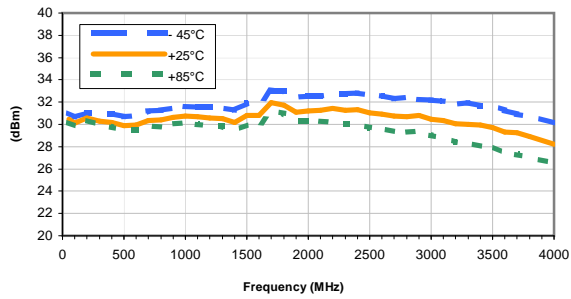
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## Typical Performance Curves

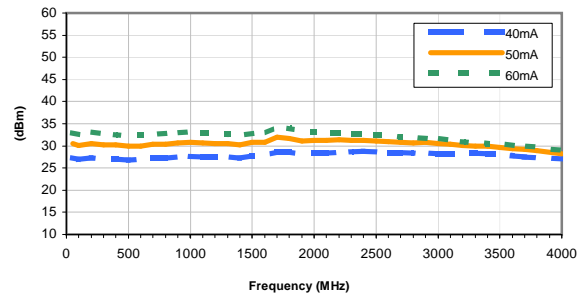
**OUTPUT IP3 vs. TEMPERATURE**

INPUT POWER = -25dBm, CURRENT = 50mA



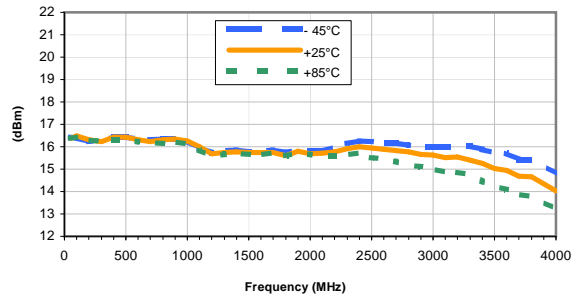
**OUTPUT IP3 vs. CURRENT**

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



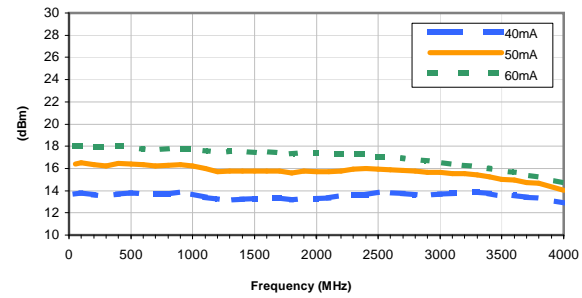
**OUTPUT POWER at 1dB Compression vs. TEMPERATURE**

CURRENT = 50mA



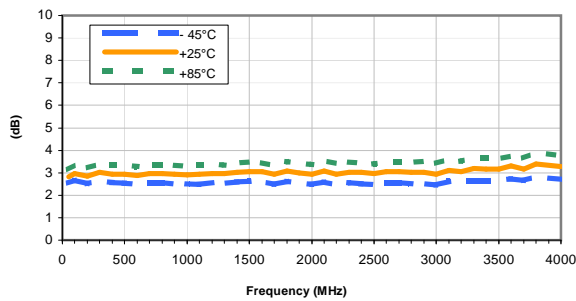
**OUTPUT POWER at 1dB Compression vs. CURRENT**

Temperature = +25°C



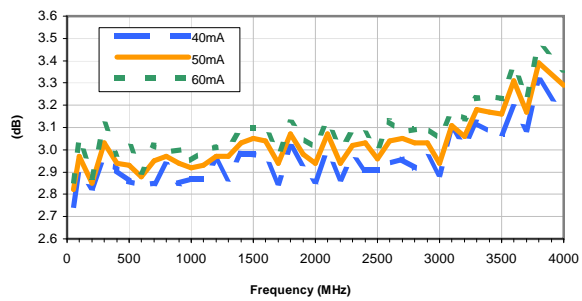
**Noise Figure vs. TEMPERATURE**

CURRENT = 50mA



**Noise Figure vs. CURRENT**

Temperature = +25°C



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