

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 = 40mA, Vd = 3.41V @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	16.53	20.00	45.59	26.22	1.08	0.67	29.34	13.87	3.06
100	16.51	19.94	48.75	25.66	1.08	0.67	29.33	13.81	3.20
200	16.45	19.91	49.46	25.39	1.08	0.67	29.59	13.89	3.01
400	16.35	19.92	42.71	25.46	1.08	0.66	29.06	13.83	3.14
600	16.23	19.99	39.99	25.05	1.09	0.65	28.54	13.71	3.13
800	16.10	20.01	40.02	25.10	1.10	0.64	29.03	13.60	3.20
1000	15.97	20.05	38.86	25.20	1.11	0.62	28.86	13.45	3.19
1200	15.83	20.09	36.28	25.76	1.12	0.61	28.42	13.19	3.21
1400	15.69	20.16	33.59	26.69	1.13	0.60	27.81	13.28	3.33
1600	15.53	20.24	31.11	28.22	1.15	0.58	28.18	13.13	3.32
1800	15.38	20.31	28.54	30.70	1.16	0.57	28.21	13.12	3.46
2000	15.23	20.39	25.96	35.78	1.18	0.55	27.93	13.25	3.15
2200	15.07	20.50	23.88	67.90	1.20	0.54	27.56	13.33	3.21
2400	14.89	20.63	22.21	36.25	1.22	0.52	27.18	13.26	3.40
2600	14.74	20.78	20.46	29.90	1.24	0.50	26.67	13.23	3.43
2800	14.59	20.91	19.20	26.29	1.27	0.49	26.52	12.96	3.40
3000	14.44	21.06	18.19	23.85	1.29	0.47	26.43	12.69	3.26
3200	14.31	21.25	17.10	21.68	1.32	0.46	26.06	12.61	3.35
3400	14.16	21.42	16.35	20.40	1.35	0.45	25.70	12.68	3.55
3600	14.03	21.57	15.65	19.24	1.37	0.44	25.03	12.59	3.61
3800	13.90	21.76	15.10	18.21	1.40	0.43	24.32	12.46	3.70
4000	13.79	21.95	14.56	17.44	1.43	0.42	23.93	12.51	3.57
4200	13.69	22.11	14.27	16.87	1.46	0.41	24.01	12.41	3.54
4400	13.60	22.25	14.15	16.58	1.49	0.40	23.94	12.07	3.58
4600	13.54	22.40	13.96	16.14	1.51	0.39	23.72	11.83	3.81
4800	13.49	22.56	14.02	16.01	1.54	0.38	23.17	11.56	3.97
5000	13.51	22.72	14.00	15.87	1.55	0.38	22.86	11.20	3.81
5200	13.51	22.80	14.23	15.82	1.57	0.37	22.73	10.78	3.69
5400	13.55	22.92	14.49	15.76	1.58	0.37	22.39	10.45	3.63
5600	13.63	23.01	14.66	15.66	1.58	0.36	21.99	10.07	3.74
5800	13.69	23.02	15.21	15.68	1.57	0.36	21.22	10.06	3.84
6000	13.77	23.03	15.67	15.81	1.57	0.36	20.48	9.67	3.88
6200	13.89	22.97	16.50	15.83	1.54	0.37	20.10	9.60	3.68
6400	14.02	22.94	17.15	15.76	1.53	0.37	19.65	9.35	3.68
6600	14.12	22.82	18.49	15.92	1.50	0.38	19.15	9.05	3.72
6800	14.27	22.55	20.12	15.52	1.45	0.39	18.52	8.70	3.86
7000	14.35	22.52	21.23	15.57	1.44	0.40	18.02	8.51	3.91
7200	14.41	22.25	23.35	15.24	1.40	0.41	17.77	8.15	3.85
7500	14.40	21.77	23.33	14.49	1.35	0.44	17.60	7.76	4.04
8000	13.89	21.13	16.97	13.43	1.32	0.46	17.02	6.20	3.96

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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} = 32mA, V_d = 3.36V @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	16.30	19.60	32.54	31.87	1.07	0.68	25.82	11.69	3.03
100	16.27	19.67	34.62	30.43	1.08	0.68	25.82	11.57	3.14
200	16.22	19.76	34.59	30.24	1.08	0.66	25.99	11.76	3.01
400	16.11	19.77	35.17	30.22	1.09	0.66	25.64	11.64	3.13
600	16.00	19.77	33.51	29.71	1.09	0.65	25.36	11.67	3.12
800	15.85	19.77	32.52	29.29	1.10	0.64	25.93	11.52	3.18
1000	15.74	19.82	31.41	29.40	1.11	0.62	25.82	11.25	3.15
1200	15.59	19.89	30.21	29.78	1.12	0.61	25.37	10.89	3.19
1400	15.44	19.94	28.26	31.55	1.14	0.59	24.88	11.17	3.29
1600	15.30	20.05	26.88	34.49	1.15	0.58	25.23	10.90	3.29
1800	15.16	20.11	24.87	41.74	1.16	0.56	25.53	10.87	3.40
2000	15.03	20.21	23.25	48.93	1.18	0.55	25.31	11.01	3.11
2200	14.84	20.33	21.69	34.50	1.20	0.53	25.07	11.17	3.19
2400	14.68	20.45	20.17	29.09	1.22	0.52	24.97	11.22	3.37
2600	14.54	20.61	18.87	25.97	1.24	0.50	24.81	11.11	3.36
2800	14.38	20.74	17.87	23.62	1.27	0.49	24.87	10.70	3.34
3000	14.24	20.88	16.82	21.71	1.29	0.48	24.96	10.37	3.19
3200	14.08	21.07	15.94	20.11	1.32	0.46	24.79	10.46	3.28
3400	13.95	21.21	15.20	19.02	1.34	0.45	24.56	10.75	3.50
3600	13.83	21.38	14.71	18.14	1.37	0.44	23.89	10.66	3.54
3800	13.68	21.59	14.16	17.23	1.40	0.43	23.29	10.53	3.63
4000	13.60	21.76	13.74	16.55	1.42	0.42	22.98	10.83	3.51
4200	13.48	21.94	13.50	16.07	1.46	0.41	23.06	10.92	3.49
4400	13.40	22.05	13.33	15.77	1.48	0.40	22.95	10.64	3.51
4600	13.34	22.23	13.27	15.46	1.50	0.40	22.65	10.38	3.77
4800	13.30	22.35	13.23	15.31	1.52	0.39	22.20	10.06	3.91
5000	13.31	22.52	13.30	15.27	1.54	0.38	22.06	9.82	3.75
5200	13.30	22.58	13.44	15.21	1.55	0.38	22.06	9.43	3.66
5400	13.36	22.70	13.70	15.17	1.56	0.37	21.81	9.20	3.58
5600	13.43	22.82	13.93	15.12	1.57	0.37	21.49	8.88	3.69
5800	13.49	22.76	14.37	15.13	1.56	0.37	20.76	8.99	3.78
6000	13.59	22.78	14.85	15.25	1.55	0.37	20.09	8.65	3.80
6200	13.69	22.74	15.52	15.25	1.53	0.37	19.76	8.56	3.60
6400	13.83	22.71	16.15	15.20	1.51	0.38	19.29	8.39	3.61
6600	13.90	22.60	17.20	15.38	1.50	0.38	18.73	8.13	3.66
6800	14.06	22.33	18.55	15.03	1.44	0.40	18.11	7.82	3.78
7000	14.10	22.31	19.37	15.12	1.44	0.40	17.60	7.69	3.83
7200	14.15	22.03	20.52	14.83	1.40	0.42	17.37	7.26	3.76
7500	14.13	21.59	20.67	14.21	1.35	0.44	17.20	6.99	3.97
8000	13.56	20.93	16.09	13.33	1.33	0.46	16.71	5.49	3.85

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 = 3.46V @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	16.68	20.08	37.49	23.75	1.08	0.68	31.95	15.26	3.10
100	16.65	20.08	35.77	23.63	1.08	0.68	32.01	15.20	3.24
200	16.60	20.05	36.32	23.51	1.08	0.67	32.20	15.21	3.05
400	16.49	20.07	35.53	23.50	1.08	0.66	31.47	15.11	3.17
600	16.37	20.12	34.99	23.13	1.09	0.65	30.67	14.96	3.16
800	16.25	20.14	36.26	23.14	1.10	0.64	30.83	14.77	3.22
1000	16.10	20.16	37.05	23.40	1.11	0.63	30.45	14.64	3.22
1200	15.96	20.23	37.78	23.82	1.12	0.61	29.98	14.43	3.25
1400	15.82	20.26	36.73	24.53	1.13	0.60	29.36	14.39	3.38
1600	15.66	20.36	34.59	25.78	1.15	0.58	29.58	14.34	3.36
1800	15.51	20.43	31.39	27.65	1.16	0.57	29.17	14.34	3.51
2000	15.36	20.52	28.18	31.27	1.18	0.55	28.92	14.42	3.21
2200	15.20	20.64	25.69	38.50	1.20	0.53	28.37	14.44	3.26
2400	15.03	20.76	23.70	47.17	1.22	0.52	27.79	14.27	3.48
2600	14.87	20.88	21.68	33.17	1.24	0.50	27.13	14.27	3.48
2800	14.72	21.03	20.26	28.47	1.27	0.49	26.79	14.09	3.45
3000	14.58	21.17	19.14	25.39	1.29	0.47	26.55	13.81	3.32
3200	14.42	21.37	17.94	22.89	1.32	0.46	26.13	13.57	3.42
3400	14.28	21.52	17.10	21.35	1.35	0.45	25.74	13.61	3.61
3600	14.14	21.69	16.36	20.04	1.38	0.43	25.09	13.48	3.66
3800	14.02	21.86	15.74	18.93	1.41	0.42	24.46	13.33	3.74
4000	13.91	22.06	15.17	18.00	1.44	0.41	24.07	13.28	3.62
4200	13.81	22.21	14.87	17.41	1.46	0.40	24.13	13.06	3.59
4400	13.72	22.36	14.73	17.09	1.49	0.39	24.09	12.77	3.63
4600	13.66	22.55	14.52	16.59	1.52	0.39	23.80	12.55	3.86
4800	13.61	22.67	14.57	16.44	1.54	0.38	23.27	12.32	4.01
5000	13.62	22.84	14.55	16.28	1.56	0.37	22.85	11.95	3.86
5200	13.62	22.93	14.79	16.26	1.57	0.37	22.70	11.52	3.76
5400	13.66	23.05	15.05	16.12	1.59	0.36	22.34	11.19	3.70
5600	13.74	23.17	15.22	16.02	1.59	0.36	21.92	10.79	3.80
5800	13.81	23.16	15.81	16.08	1.58	0.36	21.18	10.69	3.89
6000	13.89	23.16	16.30	16.16	1.57	0.36	20.45	10.35	3.93
6200	14.01	23.11	17.18	16.20	1.55	0.36	20.06	10.25	3.74
6400	14.14	23.08	17.89	16.10	1.53	0.37	19.66	10.02	3.76
6600	14.25	22.97	19.43	16.31	1.51	0.37	19.18	9.67	3.81
6800	14.41	22.70	21.35	15.83	1.45	0.39	18.60	9.30	3.94
7000	14.49	22.67	22.98	15.91	1.44	0.40	18.05	9.08	4.01
7200	14.58	22.42	26.07	15.55	1.40	0.41	17.82	8.69	3.92
7500	14.58	21.90	25.80	14.73	1.34	0.44	17.66	8.29	4.13
8000	14.11	21.23	17.52	13.53	1.31	0.47	16.96	6.72	4.05

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 = 3.59V @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	16.72	20.13	48.18	25.44	1.08	0.68	30.00	14.10	2.48
100	16.69	19.99	60.69	25.99	1.07	0.68	29.94	14.01	2.60
200	16.64	20.02	47.50	26.47	1.07	0.68	30.19	14.11	2.45
400	16.53	20.05	35.92	23.74	1.08	0.67	29.83	14.10	2.57
600	16.44	20.05	36.02	23.58	1.08	0.66	29.42	14.02	2.52
800	16.31	20.08	37.18	23.56	1.09	0.65	29.91	13.89	2.59
1000	16.19	20.10	38.59	24.15	1.10	0.64	29.77	13.70	2.53
1200	16.05	20.15	37.94	24.18	1.11	0.62	29.34	13.46	2.59
1400	15.92	20.19	37.88	24.85	1.12	0.61	28.83	13.59	2.66
1600	15.78	20.26	33.74	26.22	1.13	0.60	29.22	13.44	2.65
1800	15.64	20.34	31.50	27.77	1.15	0.58	29.33	13.37	2.79
2000	15.49	20.40	28.44	29.70	1.16	0.57	29.10	13.55	2.50
2200	15.33	20.51	26.54	33.20	1.18	0.55	28.76	13.64	2.53
2400	15.18	20.64	24.68	42.37	1.20	0.53	28.43	13.66	2.71
2600	15.03	20.76	22.08	34.73	1.22	0.52	28.00	13.62	2.71
2800	14.88	20.90	20.50	28.54	1.24	0.50	27.90	13.32	2.67
3000	14.74	21.04	18.97	24.39	1.26	0.49	27.89	13.08	2.55
3200	14.59	21.23	18.03	22.15	1.29	0.48	27.58	13.07	2.65
3400	14.47	21.35	17.46	21.17	1.31	0.46	27.35	13.13	2.80
3600	14.33	21.47	16.66	19.88	1.34	0.45	26.62	12.99	2.78
3800	14.21	21.69	16.19	18.99	1.37	0.44	25.89	12.90	2.91
4000	14.11	21.84	15.61	18.07	1.39	0.43	25.44	13.03	2.80
4200	14.01	21.98	15.60	17.65	1.42	0.42	25.55	13.08	2.78
4400	13.94	22.12	15.49	17.35	1.44	0.41	25.65	12.87	2.81
4600	13.88	22.30	15.40	16.79	1.47	0.40	25.48	12.64	3.00
4800	13.83	22.41	15.33	16.49	1.48	0.40	25.06	12.46	3.13
5000	13.85	22.56	15.46	16.34	1.50	0.39	24.75	12.23	3.01
5200	13.84	22.67	15.36	16.16	1.51	0.38	24.69	11.77	2.95
5400	13.88	22.81	15.32	15.84	1.52	0.38	24.43	11.51	2.89
5600	13.96	22.92	15.72	15.50	1.52	0.38	24.14	11.09	2.95
5800	14.03	22.91	16.15	15.20	1.51	0.38	23.48	11.04	3.04
6000	14.10	22.93	16.17	14.94	1.50	0.38	22.75	10.60	3.07
6200	14.23	22.89	17.53	14.88	1.49	0.38	22.44	10.62	2.90
6400	14.38	22.85	18.45	14.61	1.46	0.39	21.99	10.52	2.95
6600	14.52	22.74	20.23	14.86	1.44	0.40	21.39	10.21	2.97
6800	14.70	22.51	22.04	14.59	1.39	0.41	20.74	9.81	3.03
7000	14.82	22.46	25.65	14.90	1.37	0.42	20.22	9.56	3.06
7200	14.96	22.20	30.01	14.71	1.33	0.44	19.94	9.20	3.02
7500	15.07	21.70	25.65	14.04	1.27	0.48	19.80	9.06	3.24
8000	14.77	21.03	17.42	13.37	1.23	0.51	19.87	7.55	3.14

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 = 3.54V @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	16.51	19.89	36.57	28.68	1.08	0.68	26.31	11.69	2.44
100	16.47	19.86	34.62	29.71	1.08	0.68	26.26	11.50	2.53
200	16.44	19.89	33.15	31.04	1.08	0.67	26.44	11.68	2.43
400	16.35	19.88	40.04	26.82	1.08	0.67	26.29	11.65	2.55
600	16.25	19.89	39.03	26.33	1.09	0.66	26.01	11.58	2.51
800	16.12	19.90	36.72	26.37	1.09	0.65	26.58	11.53	2.58
1000	15.99	19.95	34.06	27.16	1.10	0.63	26.48	11.25	2.54
1200	15.85	19.99	33.39	27.16	1.11	0.62	26.08	10.94	2.56
1400	15.73	20.03	32.28	27.96	1.12	0.61	25.64	11.18	2.66
1600	15.59	20.09	29.70	29.91	1.13	0.60	25.94	10.96	2.63
1800	15.46	20.16	27.82	32.13	1.15	0.58	26.25	10.89	2.76
2000	15.31	20.24	25.54	35.27	1.16	0.57	26.08	11.06	2.44
2200	15.16	20.36	24.11	41.48	1.18	0.55	25.86	11.20	2.50
2400	15.01	20.48	22.56	38.06	1.20	0.53	25.81	11.33	2.68
2600	14.85	20.61	20.37	29.50	1.22	0.52	25.68	11.26	2.67
2800	14.71	20.75	19.15	25.62	1.24	0.50	25.80	10.87	2.63
3000	14.57	20.86	17.74	22.58	1.26	0.49	25.96	10.65	2.49
3200	14.42	21.05	16.96	20.81	1.29	0.48	25.92	10.71	2.62
3400	14.29	21.18	16.40	19.98	1.31	0.47	25.76	10.85	2.76
3600	14.16	21.33	15.66	18.86	1.33	0.46	25.06	10.82	2.75
3800	14.04	21.53	15.29	18.11	1.36	0.44	24.41	10.78	2.87
4000	13.94	21.70	14.77	17.27	1.39	0.43	24.09	10.92	2.76
4200	13.85	21.85	14.82	16.90	1.41	0.42	24.24	11.13	2.76
4400	13.78	21.94	14.71	16.66	1.43	0.42	24.26	11.01	2.79
4600	13.73	22.12	14.64	16.13	1.46	0.41	24.01	10.82	2.98
4800	13.68	22.23	14.59	15.91	1.47	0.40	23.64	10.65	3.11
5000	13.69	22.40	14.68	15.76	1.49	0.39	23.56	10.67	2.99
5200	13.69	22.49	14.59	15.62	1.50	0.39	23.67	10.26	2.92
5400	13.73	22.64	14.56	15.30	1.51	0.39	23.54	10.14	2.85
5600	13.81	22.73	14.97	14.98	1.51	0.38	23.33	9.77	2.94
5800	13.88	22.73	15.35	14.73	1.50	0.39	22.73	9.93	2.98
6000	13.95	22.74	15.38	14.48	1.49	0.39	22.07	9.56	3.04
6200	14.09	22.69	16.66	14.46	1.47	0.39	21.84	9.50	2.84
6400	14.23	22.65	17.42	14.23	1.45	0.39	21.45	9.52	2.88
6600	14.36	22.55	18.91	14.49	1.43	0.40	20.80	9.33	2.90
6800	14.53	22.33	20.36	14.23	1.38	0.42	20.15	9.00	2.99
7000	14.66	22.27	22.95	14.54	1.37	0.42	19.62	8.77	3.00
7200	14.78	22.00	25.01	14.39	1.33	0.44	19.37	8.44	2.94
7500	14.85	21.53	23.34	13.80	1.27	0.48	19.22	8.28	3.19
8000	14.50	20.88	16.71	13.24	1.24	0.51	19.04	6.93	3.07

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 = 3.64V @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	16.84	20.23	36.76	23.76	1.07	0.68	32.63	15.47	2.51
100	16.82	20.16	39.39	24.16	1.07	0.68	32.65	15.45	2.64
200	16.77	20.22	43.34	24.62	1.08	0.67	32.84	15.52	2.47
400	16.66	20.14	31.80	22.20	1.08	0.67	32.32	15.47	2.58
600	16.56	20.19	32.05	22.21	1.09	0.66	31.63	15.34	2.54
800	16.43	20.20	33.26	22.18	1.09	0.65	31.94	15.17	2.63
1000	16.31	20.21	35.36	22.85	1.10	0.64	31.63	15.04	2.58
1200	16.17	20.27	35.26	22.78	1.11	0.62	31.22	14.83	2.61
1400	16.04	20.29	37.23	23.38	1.12	0.61	30.74	14.83	2.70
1600	15.89	20.38	35.57	24.44	1.13	0.60	30.99	14.79	2.68
1800	15.75	20.44	34.08	25.80	1.15	0.58	30.73	14.78	2.84
2000	15.61	20.51	30.52	27.47	1.16	0.57	30.51	14.89	2.52
2200	15.45	20.64	28.60	29.93	1.18	0.55	30.08	14.91	2.57
2400	15.29	20.75	26.35	36.15	1.20	0.53	29.57	14.82	2.72
2600	15.14	20.88	23.41	40.55	1.22	0.52	28.90	14.82	2.73
2800	14.99	21.00	21.62	31.06	1.24	0.50	28.63	14.69	2.68
3000	14.85	21.15	19.90	25.77	1.27	0.49	28.39	14.51	2.57
3200	14.70	21.32	18.89	23.21	1.29	0.47	28.09	14.29	2.72
3400	14.57	21.44	18.26	22.01	1.32	0.46	27.82	14.32	2.83
3600	14.43	21.61	17.37	20.60	1.34	0.45	27.15	14.24	2.83
3800	14.31	21.78	16.86	19.62	1.37	0.44	26.45	14.13	2.93
4000	14.21	21.95	16.24	18.64	1.40	0.43	25.96	14.11	2.86
4200	14.11	22.09	16.25	18.19	1.42	0.42	26.04	13.96	2.84
4400	14.03	22.21	16.11	17.82	1.44	0.41	26.17	13.72	2.83
4600	13.97	22.37	16.01	17.24	1.47	0.40	26.05	13.52	3.04
4800	13.92	22.51	15.93	16.87	1.49	0.39	25.58	13.34	3.16
5000	13.94	22.70	16.06	16.73	1.51	0.39	25.16	13.06	3.05
5200	13.93	22.78	15.94	16.53	1.52	0.38	25.07	12.58	2.99
5400	13.97	22.92	15.85	16.18	1.53	0.38	24.77	12.32	2.93
5600	14.05	23.04	16.27	15.85	1.53	0.37	24.43	11.93	3.01
5800	14.11	23.02	16.77	15.53	1.52	0.37	23.80	11.75	3.05
6000	14.18	23.07	16.73	15.24	1.51	0.37	23.03	11.35	3.10
6200	14.32	23.01	18.19	15.20	1.49	0.38	22.70	11.33	2.94
6400	14.48	22.99	19.21	14.91	1.47	0.38	22.25	11.26	3.00
6600	14.61	22.88	21.27	15.17	1.44	0.39	21.71	10.91	3.00
6800	14.80	22.62	23.15	14.87	1.39	0.41	21.13	10.48	3.11
7000	14.93	22.59	27.75	15.20	1.38	0.41	20.57	10.14	3.11
7200	15.07	22.32	37.44	14.99	1.33	0.44	20.27	9.79	3.08
7500	15.21	21.84	26.35	14.27	1.27	0.47	20.11	9.74	3.29
8000	14.97	21.13	17.72	13.53	1.22	0.51	19.94	8.10	3.22

MMIC Amplifier

GALI-2+

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 = 3.27V @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	16.37	19.70	42.03	27.37	1.07	0.68	29.05	13.64	3.54
100	16.34	19.80	47.40	26.07	1.08	0.67	29.08	13.64	3.63
200	16.28	19.83	40.66	24.68	1.08	0.66	29.40	13.66	3.47
400	16.18	19.85	41.76	26.40	1.09	0.65	28.72	13.59	3.62
600	16.05	19.87	39.05	26.50	1.10	0.64	28.11	13.46	3.60
800	15.92	19.90	35.64	27.19	1.10	0.63	28.42	13.28	3.69
1000	15.78	19.94	33.72	27.99	1.11	0.62	28.16	13.12	3.67
1200	15.63	19.98	31.45	29.00	1.13	0.61	27.66	12.91	3.74
1400	15.49	20.08	29.48	30.06	1.14	0.59	27.08	12.92	3.85
1600	15.33	20.16	27.66	32.33	1.16	0.57	27.47	12.80	3.85
1800	15.17	20.24	25.73	36.40	1.17	0.56	27.27	12.78	4.01
2000	15.02	20.34	23.64	47.12	1.19	0.54	26.94	12.94	3.70
2200	14.85	20.47	21.90	37.65	1.21	0.52	26.49	12.93	3.80
2400	14.69	20.59	20.41	30.63	1.23	0.51	25.96	12.81	4.00
2600	14.52	20.74	19.00	26.95	1.26	0.49	25.35	12.74	4.05
2800	14.37	20.88	17.94	24.63	1.28	0.48	25.06	12.42	4.00
3000	14.22	21.03	17.03	22.53	1.31	0.47	24.86	12.07	3.86
3200	14.06	21.25	15.97	20.68	1.34	0.45	24.48	12.03	3.95
3400	13.91	21.39	15.18	19.34	1.36	0.44	24.15	12.07	4.18
3600	13.76	21.56	14.47	18.24	1.39	0.43	23.42	11.88	4.24
3800	13.64	21.78	13.91	17.31	1.42	0.42	22.76	11.72	4.32
4000	13.52	21.99	13.43	16.47	1.46	0.41	22.41	11.71	4.19
4200	13.42	22.16	13.18	16.02	1.49	0.40	22.52	11.50	4.14
4400	13.32	22.31	13.07	15.70	1.52	0.39	22.27	11.15	4.20
4600	13.26	22.49	12.95	15.41	1.55	0.38	21.94	10.85	4.48
4800	13.20	22.58	13.03	15.42	1.57	0.38	21.32	10.45	4.59
5000	13.22	22.78	12.99	15.43	1.59	0.37	20.94	10.03	4.46
5200	13.23	22.87	13.24	15.54	1.60	0.36	20.73	9.57	4.37
5400	13.25	22.99	13.38	15.56	1.62	0.36	20.34	9.26	4.31
5600	13.33	23.05	13.52	15.74	1.62	0.36	19.95	8.90	4.43
5800	13.39	23.05	14.07	15.96	1.61	0.35	19.16	8.93	4.56
6000	13.44	23.04	14.35	16.14	1.61	0.36	18.53	8.50	4.65
6200	13.54	23.01	14.90	16.33	1.59	0.36	18.15	8.34	4.46
6400	13.64	22.91	15.44	16.36	1.57	0.36	17.68	8.02	4.41
6600	13.71	22.86	16.57	16.72	1.56	0.36	17.19	7.76	4.42
6800	13.81	22.52	17.83	16.12	1.50	0.38	16.44	7.36	4.68
7000	13.83	22.52	18.34	16.07	1.50	0.38	16.13	7.23	4.85
7200	13.83	22.22	19.75	15.56	1.47	0.39	15.86	6.64	4.82
7500	13.65	21.76	20.56	14.64	1.43	0.41	15.62	6.48	4.95
8000	12.88	21.10	15.99	13.27	1.42	0.42	14.81	4.80	5.15

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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 = 32mA, Vd = 3.22V @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	16.11	19.50	30.07	34.93	1.08	0.68	25.57	11.68	3.57
100	16.08	19.60	33.74	32.08	1.08	0.67	25.59	11.63	3.61
200	16.01	19.60	36.25	29.23	1.09	0.66	25.88	11.76	3.50
400	15.90	19.65	31.85	32.07	1.09	0.65	25.40	11.73	3.66
600	15.80	19.66	30.37	32.72	1.10	0.64	25.02	11.65	3.62
800	15.65	19.66	28.87	34.33	1.11	0.63	25.52	11.43	3.71
1000	15.52	19.72	27.55	36.20	1.12	0.62	25.40	11.22	3.67
1200	15.37	19.78	26.50	37.55	1.13	0.60	24.95	10.88	3.72
1400	15.23	19.84	25.46	41.48	1.14	0.59	24.42	11.11	3.86
1600	15.08	19.95	24.11	47.57	1.16	0.57	24.78	10.89	3.85
1800	14.93	20.01	22.62	42.28	1.17	0.56	25.09	10.87	3.97
2000	14.77	20.12	21.14	34.49	1.19	0.54	24.87	11.06	3.68
2200	14.60	20.28	19.88	29.83	1.21	0.52	24.59	11.18	3.74
2400	14.44	20.40	18.61	26.13	1.23	0.51	24.41	11.09	4.00
2600	14.28	20.53	17.44	23.92	1.26	0.49	24.11	10.97	4.02
2800	14.12	20.69	16.63	22.30	1.28	0.48	24.08	10.48	3.94
3000	13.99	20.82	15.74	20.61	1.30	0.47	24.05	10.13	3.81
3200	13.83	21.05	14.93	19.19	1.33	0.45	23.80	10.33	3.91
3400	13.69	21.20	14.17	18.05	1.36	0.44	23.55	10.43	4.15
3600	13.53	21.40	13.59	17.18	1.39	0.43	22.85	10.38	4.17
3800	13.40	21.59	13.12	16.31	1.42	0.42	22.23	10.37	4.27
4000	13.29	21.76	12.64	15.64	1.45	0.42	21.96	10.48	4.13
4200	13.18	21.98	12.46	15.28	1.48	0.40	22.06	10.42	4.11
4400	13.10	22.10	12.31	14.96	1.50	0.40	21.85	10.07	4.16
4600	13.01	22.28	12.28	14.75	1.54	0.39	21.50	9.73	4.38
4800	12.98	22.37	12.30	14.74	1.55	0.38	20.96	9.36	4.57
5000	12.98	22.54	12.34	14.79	1.58	0.38	20.67	8.99	4.41
5200	12.99	22.64	12.56	14.87	1.59	0.37	20.54	8.58	4.33
5400	13.03	22.75	12.67	14.92	1.60	0.37	20.17	8.28	4.28
5600	13.09	22.86	12.86	15.12	1.61	0.36	19.80	7.94	4.39
5800	13.15	22.80	13.35	15.32	1.60	0.36	19.03	8.10	4.51
6000	13.21	22.80	13.56	15.52	1.60	0.36	18.38	7.71	4.61
6200	13.30	22.74	14.07	15.70	1.58	0.36	18.02	7.55	4.39
6400	13.40	22.71	14.54	15.77	1.57	0.37	17.49	7.28	4.34
6600	13.46	22.60	15.56	16.05	1.55	0.37	16.99	6.99	4.37
6800	13.54	22.28	16.55	15.56	1.50	0.38	16.22	6.68	4.60
7000	13.53	22.24	17.00	15.55	1.50	0.39	15.93	6.52	4.78
7200	13.52	21.96	18.03	15.11	1.47	0.40	15.65	5.91	4.69
7500	13.34	21.56	18.55	14.35	1.44	0.41	15.42	5.88	4.88
8000	12.53	20.91	15.23	13.21	1.44	0.42	14.72	4.18	5.05

MMIC Amplifier

GALI-2+

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 = 3.32V @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	16.54	19.91	40.22	24.50	1.07	0.68	31.68	14.81	3.49
100	16.51	19.90	35.11	23.69	1.07	0.68	31.79	14.89	3.63
200	16.45	19.97	32.58	22.55	1.08	0.67	32.04	14.81	3.43
400	16.34	19.97	37.33	24.05	1.09	0.66	30.97	14.75	3.60
600	16.21	20.04	37.92	24.08	1.10	0.64	29.99	14.52	3.58
800	16.07	20.03	41.75	24.85	1.10	0.63	29.92	14.28	3.66
1000	15.94	20.08	40.27	25.28	1.11	0.62	29.45	14.16	3.66
1200	15.79	20.14	37.15	26.07	1.13	0.61	28.89	13.86	3.73
1400	15.63	20.19	33.36	27.09	1.14	0.59	28.31	13.85	3.86
1600	15.48	20.28	30.77	28.57	1.15	0.57	28.52	13.76	3.86
1800	15.33	20.37	27.92	31.01	1.17	0.56	27.80	13.80	4.02
2000	15.18	20.46	25.58	36.16	1.19	0.54	27.49	13.88	3.69
2200	15.00	20.59	23.38	51.10	1.21	0.52	26.91	13.84	3.78
2400	14.83	20.72	21.58	35.24	1.23	0.51	26.25	13.57	4.01
2600	14.68	20.87	20.07	29.80	1.26	0.49	25.51	13.53	4.06
2800	14.51	20.99	18.86	26.46	1.28	0.48	25.14	13.27	4.00
3000	14.36	21.14	17.76	23.93	1.31	0.47	24.82	12.93	3.87
3200	14.20	21.37	16.64	21.71	1.34	0.45	24.39	12.68	3.97
3400	14.05	21.52	15.77	20.25	1.37	0.44	24.03	12.73	4.18
3600	13.91	21.69	15.08	19.02	1.39	0.43	23.36	12.56	4.22
3800	13.77	21.91	14.43	17.90	1.43	0.42	22.70	12.41	4.33
4000	13.66	22.11	13.94	17.02	1.46	0.41	22.39	12.27	4.20
4200	13.55	22.26	13.64	16.47	1.49	0.40	22.45	12.01	4.15
4400	13.46	22.42	13.48	16.14	1.52	0.39	22.18	11.66	4.20
4600	13.39	22.60	13.41	15.79	1.55	0.38	21.84	11.40	4.43
4800	13.33	22.72	13.44	15.75	1.57	0.37	21.20	10.99	4.59
5000	13.35	22.90	13.46	15.77	1.60	0.37	20.82	10.56	4.47
5200	13.34	23.00	13.68	15.84	1.61	0.36	20.60	10.15	4.41
5400	13.38	23.11	13.86	15.88	1.62	0.35	20.20	9.82	4.34
5600	13.45	23.21	14.03	16.04	1.63	0.35	19.84	9.40	4.47
5800	13.50	23.19	14.54	16.23	1.62	0.35	19.05	9.42	4.58
6000	13.57	23.20	14.89	16.44	1.62	0.35	18.40	9.08	4.69
6200	13.66	23.17	15.41	16.60	1.60	0.35	18.05	8.85	4.52
6400	13.78	23.10	16.03	16.66	1.58	0.36	17.59	8.50	4.48
6600	13.83	23.00	17.27	16.96	1.57	0.36	17.16	8.19	4.51
6800	13.95	22.69	18.73	16.34	1.51	0.38	16.40	7.81	4.76
7000	13.96	22.63	19.43	16.27	1.50	0.38	16.07	7.64	4.99
7200	13.97	22.35	21.03	15.73	1.47	0.39	15.81	7.05	5.02
7500	13.83	21.91	22.03	14.75	1.43	0.41	15.60	6.87	5.04
8000	13.06	21.23	16.44	13.28	1.42	0.42	14.72	5.11	5.18

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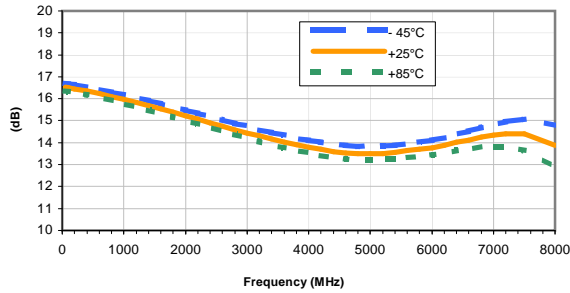
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Typical Performance Curves

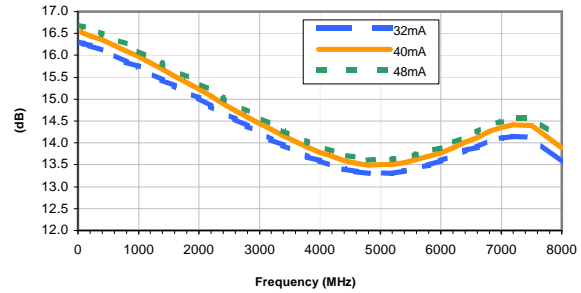
GAIN vs. TEMPERATURE

INPUT POWER = -20dBm, CURRENT = 40mA



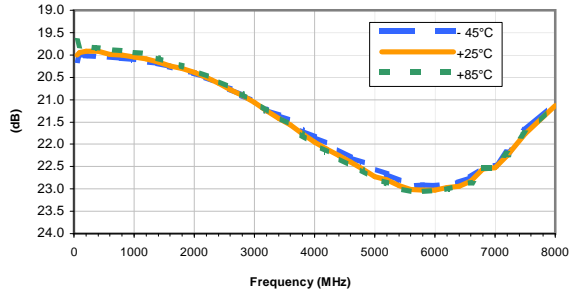
GAIN vs. CURRENT

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



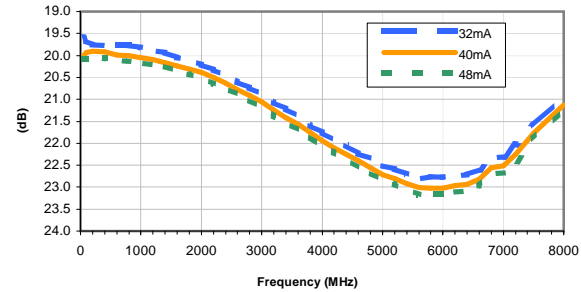
ISOLATION vs. TEMPERATURE

INPUT POWER = -20dBm, CURRENT = 40mA



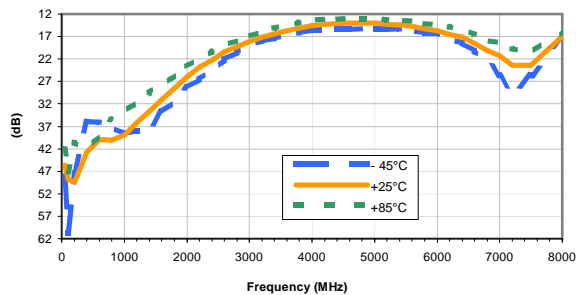
ISOLATION vs. CURRENT

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



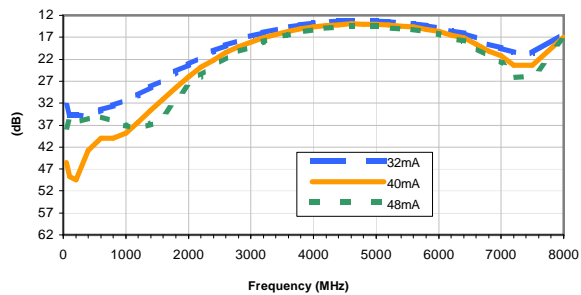
INPUT RETURN LOSS vs. TEMPERATURE

INPUT POWER = -20dBm, CURRENT = 40mA



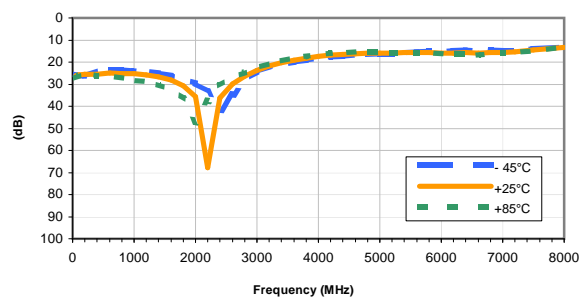
INPUT RETURN LOSS vs. CURRENT

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



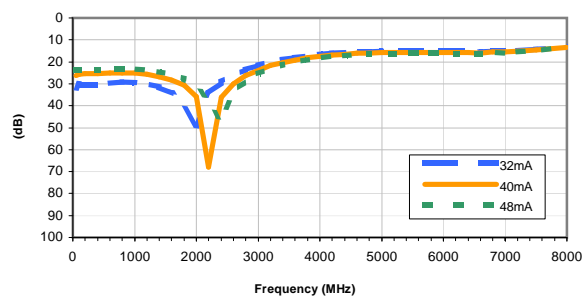
OUTPUT RETURN LOSS vs. TEMPERATURE

INPUT POWER = -20dBm, CURRENT = 40mA



OUTPUT RETURN LOSS vs. CURRENT

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



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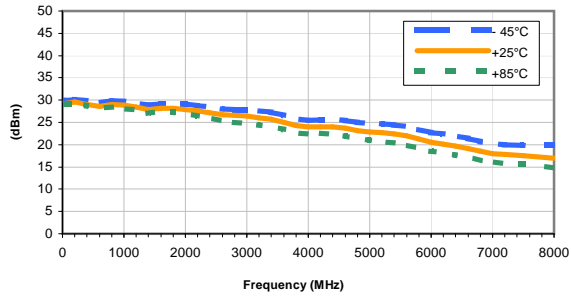
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Typical Performance Curves

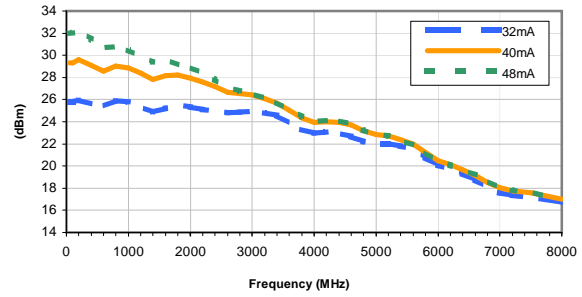
OUTPUT IP3 vs. TEMPERATURE

INPUT POWER = -20dBm, CURRENT = 40mA



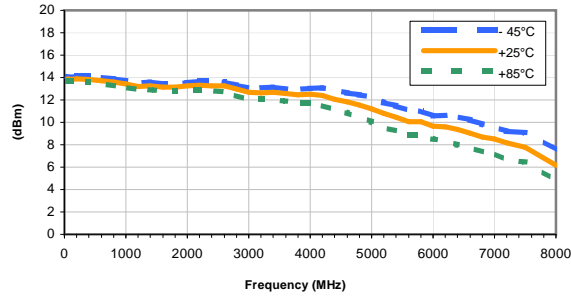
OUTPUT IP3 vs. CURRENT

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



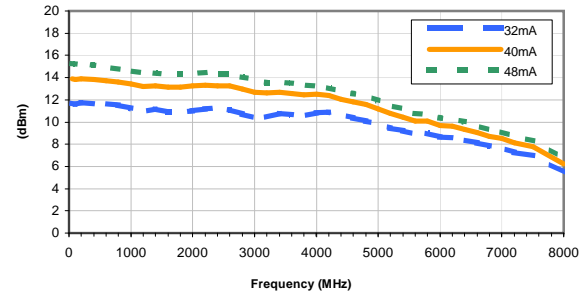
OUTPUT POWER at 1dB Compression vs. TEMPERATURE

CURRENT = 40mA



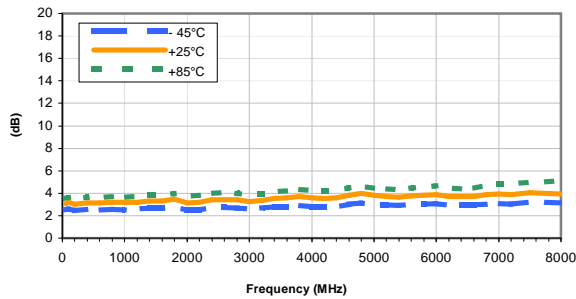
OUTPUT POWER at 1dB Compression vs. CURRENT

Temperature = +25°C



Noise Figure vs. TEMPERATURE

CURRENT = 40mA



Noise Figure vs. CURRENT

Temperature = +25°C

