

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: INPUT POWER = -20dBm, Icc = 50mA, Vd =4.35V @Temperature = +25degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Delta			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(dB)
50	21.32	24.07	42.00	28.01	1.05	0.73	30.63	16.57	3.27
100	21.30	24.08	46.95	27.45	1.05	0.73	30.92	16.55	3.33
200	21.25	24.12	50.41	25.81	1.05	0.72	30.92	16.44	3.31
300	21.12	24.05	54.15	24.51	1.06	0.71	30.81	16.24	3.49
400	21.02	24.07	53.29	23.10	1.06	0.70	30.44	16.32	3.42
500	20.89	24.06	54.30	21.75	1.06	0.69	30.37	16.30	3.39
600	20.78	24.08	62.71	20.55	1.07	0.68	30.38	16.31	3.45
700	20.61	24.07	52.65	19.65	1.07	0.67	30.65	16.24	3.42
800	20.45	24.06	46.07	18.85	1.08	0.66	30.80	16.37	3.36
900	20.28	24.07	42.55	18.21	1.08	0.65	30.76	15.97	3.43
1000	20.11	24.06	40.84	17.57	1.09	0.63	30.55	16.02	3.37
1100	19.94	24.04	38.22	16.98	1.10	0.62	30.27	16.08	3.38
1200	19.72	24.03	34.52	16.56	1.11	0.61	30.06	16.11	3.40
1300	19.54	24.03	33.03	16.15	1.11	0.59	29.73	15.81	3.40
1400	19.35	24.04	30.45	15.73	1.12	0.58	29.32	15.75	3.41
1500	19.17	24.01	29.44	15.33	1.13	0.57	29.16	15.58	3.40
1600	18.95	24.02	27.69	15.16	1.14	0.55	29.31	15.42	3.37
1700	18.75	23.99	26.05	14.86	1.15	0.54	29.58	15.40	3.37
1800	18.59	24.00	25.19	14.53	1.15	0.53	29.13	15.27	3.36
1900	18.38	23.95	23.92	14.37	1.16	0.51	28.80	15.15	3.45
2000	18.20	23.95	22.86	14.12	1.17	0.50	28.55	15.08	3.47
2100	17.98	23.93	21.90	14.01	1.18	0.49	28.15	14.94	3.49
2200	17.80	23.92	20.85	13.87	1.19	0.48	27.74	14.76	3.40
2300	17.62	23.87	20.02	13.69	1.20	0.47	27.51	14.50	3.50
2400	17.44	23.87	19.37	13.52	1.21	0.46	27.23	14.14	3.51
2500	17.26	23.85	18.77	13.42	1.22	0.45	27.02	13.77	3.47
2600	17.07	23.91	18.21	13.45	1.24	0.43	26.68	13.61	3.45
2700	16.93	23.77	17.50	13.15	1.23	0.43	26.48	13.50	3.51
2800	16.74	23.80	16.97	13.10	1.24	0.41	26.39	13.26	3.46
2900	16.58	23.74	16.53	12.96	1.25	0.41	26.07	13.22	3.48
3000	16.43	23.69	15.97	12.86	1.25	0.40	25.87	13.09	3.61
3100	16.27	23.72	15.75	12.93	1.27	0.39	25.47	12.84	3.56
3200	16.11	23.69	15.17	12.87	1.27	0.38	25.29	12.64	3.57
3300	15.99	23.65	14.75	12.82	1.28	0.38	24.97	12.66	3.65
3400	15.87	23.58	14.42	12.70	1.28	0.37	24.74	12.40	3.69
3500	15.74	23.56	14.32	12.73	1.28	0.37	24.60	12.07	3.68
3600	15.60	23.54	14.08	12.74	1.29	0.36	24.41	11.83	3.68
3700	15.46	23.65	14.00	12.99	1.33	0.35	24.28	11.49	3.71
3800	15.36	23.43	13.68	12.75	1.30	0.35	23.98	11.30	3.77
4000	15.17	23.45	13.42	12.88	1.33	0.35	23.45	11.01	3.59

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: INPUT POWER = -20dBm, Icc = 40mA, Vd =4.30V @Temperature = +25degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Delta			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(dB)
50	21.06	23.77	29.35	39.61	1.05	0.73	27.13	13.99	3.21
100	20.99	23.82	29.42	35.72	1.05	0.72	27.43	13.95	3.29
200	20.95	23.82	30.58	30.75	1.05	0.72	27.43	13.85	3.27
300	20.84	23.78	30.12	27.31	1.06	0.71	27.31	13.75	3.43
400	20.74	23.80	31.74	24.99	1.06	0.70	27.00	13.80	3.38
500	20.58	23.80	31.49	23.18	1.06	0.69	27.05	13.74	3.34
600	20.46	23.83	32.13	21.69	1.07	0.68	27.13	13.78	3.43
700	20.33	23.83	30.17	20.54	1.07	0.67	27.47	13.75	3.38
800	20.15	23.77	30.84	19.60	1.08	0.66	27.74	13.84	3.29
900	20.00	23.81	30.39	18.79	1.08	0.64	27.76	13.66	3.37
1000	19.83	23.79	28.94	18.09	1.09	0.63	27.63	13.63	3.33
1100	19.69	23.77	28.47	17.46	1.09	0.62	27.38	13.72	3.31
1200	19.50	23.76	27.25	16.95	1.10	0.61	27.29	13.63	3.38
1300	19.29	23.74	27.30	16.50	1.11	0.59	27.14	13.39	3.36
1400	19.12	23.79	26.03	15.99	1.12	0.58	26.89	13.33	3.35
1500	18.91	23.74	24.87	15.59	1.12	0.57	26.84	13.25	3.38
1600	18.73	23.74	24.32	15.38	1.13	0.55	27.02	13.16	3.30
1700	18.53	23.76	23.15	15.03	1.14	0.54	27.46	13.24	3.31
1800	18.35	23.73	22.59	14.70	1.15	0.53	27.19	13.10	3.31
1900	18.17	23.73	21.21	14.50	1.16	0.51	26.94	13.22	3.40
2000	18.00	23.66	20.58	14.23	1.16	0.50	26.83	13.28	3.41
2100	17.80	23.68	19.80	14.11	1.17	0.49	26.52	13.29	3.42
2200	17.61	23.67	19.34	13.94	1.18	0.48	26.28	13.01	3.35
2300	17.41	23.63	18.54	13.73	1.19	0.47	26.18	12.71	3.42
2400	17.24	23.63	18.07	13.56	1.20	0.46	26.03	12.45	3.42
2500	17.05	23.62	17.30	13.45	1.21	0.44	25.85	12.25	3.41
2600	16.89	23.68	16.89	13.48	1.22	0.43	25.53	12.32	3.40
2700	16.75	23.53	16.26	13.15	1.21	0.43	25.33	12.39	3.45
2800	16.58	23.55	15.99	13.09	1.23	0.42	25.25	12.22	3.40
2900	16.39	23.50	15.58	12.94	1.23	0.41	24.98	12.18	3.40
3000	16.26	23.50	15.15	12.85	1.24	0.40	24.86	12.11	3.55
3100	16.09	23.50	14.75	12.90	1.25	0.39	24.57	11.94	3.54
3200	15.97	23.47	14.39	12.84	1.26	0.38	24.39	11.84	3.51
3300	15.81	23.43	14.01	12.77	1.26	0.38	24.05	11.81	3.60
3400	15.70	23.40	13.75	12.66	1.27	0.37	23.90	11.56	3.64
3500	15.55	23.37	13.57	12.68	1.27	0.37	23.72	11.29	3.62
3600	15.44	23.35	13.30	12.70	1.28	0.36	23.60	11.06	3.61
3700	15.29	23.44	13.26	12.94	1.31	0.35	23.44	10.78	3.65
3800	15.21	23.26	12.98	12.71	1.29	0.35	23.14	10.61	3.70
4000	14.99	23.27	12.84	12.86	1.32	0.34	22.64	10.27	3.51

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: INPUT POWER = -20dBm, Icc = 60mA, Vd =4.39V @Temperature = +25degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Delta			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(dB)
50	21.52	24.40	38.16	24.53	1.05	0.72	33.25	18.06	3.30
100	21.49	24.24	37.53	24.19	1.05	0.73	33.53	18.10	3.37
200	21.42	24.26	35.26	23.45	1.05	0.72	33.54	18.05	3.37
300	21.29	24.27	35.61	22.61	1.06	0.71	33.40	17.99	3.54
400	21.19	24.27	35.23	21.61	1.06	0.70	32.95	17.93	3.50
500	21.06	24.29	36.49	20.59	1.06	0.69	32.72	17.94	3.41
600	20.94	24.26	36.76	19.65	1.07	0.68	32.65	17.91	3.49
700	20.77	24.26	37.58	18.87	1.07	0.67	32.75	17.90	3.48
800	20.61	24.25	39.42	18.24	1.08	0.66	32.77	17.90	3.42
900	20.45	24.22	41.54	17.63	1.08	0.65	32.62	17.63	3.48
1000	20.26	24.23	45.17	17.09	1.09	0.63	32.29	17.60	3.41
1100	20.09	24.21	46.64	16.59	1.10	0.62	31.99	17.61	3.44
1200	19.87	24.23	46.31	16.21	1.11	0.61	31.67	17.57	3.48
1300	19.68	24.22	41.13	15.86	1.12	0.59	31.21	17.41	3.43
1400	19.50	24.19	36.12	15.43	1.12	0.58	30.72	17.24	3.45
1500	19.31	24.16	32.81	15.10	1.13	0.57	30.46	17.15	3.45
1600	19.08	24.21	31.11	14.95	1.14	0.55	30.52	16.89	3.43
1700	18.89	24.17	28.77	14.66	1.15	0.54	30.69	16.75	3.39
1800	18.71	24.15	27.29	14.36	1.16	0.53	30.17	16.47	3.41
1900	18.51	24.13	25.76	14.23	1.17	0.51	29.79	16.24	3.52
2000	18.33	24.10	24.55	14.00	1.18	0.50	29.49	15.97	3.53
2100	18.11	24.11	23.48	13.90	1.19	0.49	29.05	15.79	3.52
2200	17.92	24.07	22.35	13.77	1.20	0.48	28.57	15.61	3.47
2300	17.74	24.06	21.15	13.60	1.21	0.47	28.25	15.37	3.56
2400	17.57	23.99	20.45	13.44	1.21	0.46	27.94	15.03	3.55
2500	17.38	24.00	19.62	13.36	1.22	0.44	27.70	14.56	3.53
2600	17.19	24.05	19.17	13.37	1.24	0.43	27.41	14.29	3.53
2700	17.04	23.94	18.30	13.11	1.24	0.43	27.20	14.18	3.59
2800	16.86	23.93	17.91	13.06	1.25	0.42	27.10	13.91	3.52
2900	16.70	23.88	17.23	12.92	1.25	0.41	26.79	13.81	3.57
3000	16.56	23.81	16.72	12.82	1.25	0.40	26.54	13.65	3.68
3100	16.38	23.87	16.37	12.90	1.28	0.39	26.13	13.39	3.63
3200	16.24	23.82	15.90	12.84	1.28	0.38	25.93	13.21	3.63
3300	16.11	23.78	15.30	12.80	1.28	0.38	25.63	13.19	3.72
3400	15.99	23.71	15.00	12.68	1.28	0.37	25.35	12.99	3.78
3500	15.85	23.66	14.78	12.69	1.29	0.37	25.27	12.64	3.73
3600	15.72	23.64	14.59	12.71	1.30	0.36	25.05	12.40	3.79
3700	15.57	23.76	14.48	12.97	1.33	0.35	24.93	12.07	3.78
3800	15.47	23.57	14.21	12.72	1.31	0.35	24.62	11.85	3.84
4000	15.28	23.55	13.83	12.84	1.33	0.35	24.08	11.51	3.67

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: INPUT POWER = -20dBm, Icc = 50mA, Vd =4.58V @Temperature = -45degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Delta			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(dB)
50	21.43	24.14	40.53	27.47	1.05	0.73	31.15	16.53	2.85
100	21.42	24.12	38.89	29.26	1.05	0.73	31.42	16.54	2.89
200	21.33	24.14	35.10	28.57	1.05	0.72	31.38	16.31	2.90
300	21.24	24.09	42.52	24.89	1.05	0.72	31.37	16.25	3.01
400	21.14	24.11	47.60	22.68	1.06	0.71	31.13	16.28	2.99
500	21.04	24.11	44.16	21.38	1.06	0.70	31.11	16.24	2.91
600	20.90	24.14	45.52	20.35	1.06	0.69	31.15	16.26	2.95
700	20.76	24.10	45.76	19.41	1.07	0.68	31.42	16.22	2.93
800	20.60	24.08	58.09	18.76	1.07	0.67	31.62	16.28	2.89
900	20.44	24.09	46.33	18.28	1.08	0.66	31.62	15.98	2.93
1000	20.27	24.09	45.31	17.70	1.08	0.64	31.44	16.05	2.87
1100	20.08	24.09	40.68	17.13	1.09	0.63	31.20	16.10	2.90
1200	19.90	24.04	38.94	16.56	1.10	0.62	31.05	16.15	2.92
1300	19.70	24.06	36.89	16.12	1.11	0.60	30.78	15.97	2.91
1400	19.55	24.03	34.17	15.67	1.11	0.59	30.41	15.77	2.90
1500	19.36	24.04	31.64	15.38	1.12	0.58	30.30	15.67	2.91
1600	19.13	24.04	29.53	15.16	1.13	0.56	30.43	15.53	2.83
1700	18.97	24.00	28.27	14.83	1.13	0.55	30.76	15.56	2.82
1800	18.79	24.01	26.96	14.52	1.14	0.54	30.42	15.45	2.82
1900	18.60	23.97	25.86	14.42	1.15	0.53	30.14	15.45	2.92
2000	18.40	23.97	24.43	14.20	1.16	0.52	29.99	15.46	2.92
2100	18.21	23.95	24.05	13.98	1.17	0.50	29.64	15.41	2.92
2200	18.02	23.93	22.80	13.78	1.18	0.49	29.28	15.24	2.88
2300	17.86	23.87	21.84	13.61	1.18	0.48	29.05	14.94	2.95
2400	17.68	23.88	20.80	13.49	1.19	0.47	28.79	14.66	2.96
2500	17.51	23.86	20.00	13.38	1.20	0.46	28.58	14.35	2.92
2600	17.28	23.98	19.22	13.56	1.23	0.44	28.27	14.30	2.96
2700	17.17	23.80	18.27	13.14	1.21	0.44	28.07	14.22	2.95
2800	16.99	23.79	17.83	13.06	1.22	0.43	27.96	13.96	2.90
2900	16.85	23.75	17.32	12.87	1.23	0.42	27.65	13.89	2.95
3000	16.70	23.71	16.78	12.73	1.23	0.42	27.47	13.77	3.03
3100	16.52	23.75	16.46	12.83	1.25	0.40	27.07	13.54	3.03
3200	16.40	23.72	15.88	12.75	1.25	0.40	26.91	13.42	3.02
3300	16.27	23.69	15.79	12.69	1.26	0.39	26.64	13.38	3.09
3400	16.17	23.60	15.43	12.56	1.26	0.39	26.29	13.14	3.13
3500	16.05	23.55	15.14	12.50	1.26	0.39	26.30	12.89	3.10
3600	15.94	23.49	14.84	12.45	1.26	0.38	26.05	12.64	3.10
3700	15.74	23.62	14.98	12.77	1.30	0.37	25.96	12.30	3.09
3800	15.70	23.37	14.61	12.43	1.27	0.37	25.60	12.13	3.16
4000	15.45	23.51	14.42	12.83	1.32	0.36	25.08	11.82	3.02

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: INPUT POWER = -20dBm, Icc = 40mA, Vd =4.54V @Temperature = -45degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Delta			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(dB)
50	21.14	23.95	30.16	35.59	1.05	0.72	27.43	13.95	2.81
100	21.14	23.90	28.14	37.93	1.05	0.73	27.69	13.86	2.85
200	21.06	23.86	27.91	32.58	1.05	0.72	27.62	13.74	2.88
300	20.98	23.85	29.96	27.70	1.05	0.72	27.63	13.66	2.99
400	20.89	23.92	34.84	24.54	1.06	0.70	27.45	13.67	2.94
500	20.80	23.88	34.95	22.91	1.06	0.70	27.53	13.63	2.88
600	20.67	23.87	35.65	21.35	1.06	0.69	27.62	13.69	2.92
700	20.51	23.84	33.44	20.34	1.07	0.68	27.96	13.72	2.89
800	20.39	23.85	33.15	19.50	1.07	0.67	28.27	13.79	2.85
900	20.22	23.88	32.15	18.87	1.08	0.65	28.33	13.68	2.89
1000	20.05	23.81	30.43	18.24	1.08	0.65	28.20	13.64	2.85
1100	19.86	23.82	30.70	17.60	1.09	0.63	27.98	13.64	2.86
1200	19.69	23.83	29.95	17.05	1.10	0.62	27.92	13.61	2.87
1300	19.52	23.85	29.73	16.48	1.10	0.60	27.83	13.36	2.87
1400	19.34	23.83	28.26	15.98	1.11	0.59	27.60	13.31	2.89
1500	19.17	23.77	26.58	15.65	1.11	0.58	27.59	13.24	2.88
1600	18.96	23.82	25.97	15.39	1.12	0.56	27.74	13.07	2.81
1700	18.78	23.79	24.80	15.04	1.13	0.55	28.22	13.21	2.81
1800	18.61	23.76	24.11	14.67	1.14	0.54	28.05	13.19	2.80
1900	18.41	23.73	22.83	14.57	1.14	0.53	27.89	13.32	2.90
2000	18.22	23.72	22.27	14.33	1.15	0.52	27.86	13.43	2.88
2100	18.03	23.72	21.77	14.13	1.16	0.50	27.66	13.43	2.88
2200	17.86	23.73	21.21	13.88	1.17	0.49	27.48	13.21	2.85
2300	17.70	23.70	20.10	13.71	1.18	0.48	27.44	12.92	2.92
2400	17.52	23.68	19.44	13.57	1.19	0.47	27.32	12.66	2.93
2500	17.35	23.63	18.43	13.45	1.19	0.46	27.18	12.58	2.88
2600	17.11	23.75	18.04	13.60	1.22	0.44	26.99	12.71	2.88
2700	17.00	23.59	17.09	13.17	1.20	0.44	26.82	12.85	2.92
2800	16.82	23.64	16.90	13.09	1.22	0.43	26.75	12.78	2.85
2900	16.70	23.57	16.33	12.88	1.22	0.42	26.50	12.69	2.90
3000	16.54	23.54	15.91	12.75	1.22	0.41	26.37	12.68	2.96
3100	16.36	23.56	15.53	12.83	1.24	0.40	26.03	12.58	2.94
3200	16.24	23.55	15.15	12.74	1.25	0.40	25.94	12.48	2.96
3300	16.13	23.52	14.99	12.68	1.25	0.39	25.70	12.43	3.02
3400	16.02	23.45	14.69	12.54	1.25	0.39	25.40	12.28	3.05
3500	15.91	23.36	14.38	12.48	1.24	0.39	25.39	12.05	3.06
3600	15.77	23.31	14.09	12.43	1.25	0.38	25.15	11.91	3.03
3700	15.60	23.43	14.29	12.76	1.29	0.37	25.02	11.61	3.05
3800	15.55	23.21	13.92	12.43	1.26	0.37	24.69	11.46	3.08
4000	15.31	23.34	13.82	12.83	1.31	0.36	24.23	11.15	2.95

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: INPUT POWER = -20dBm, Icc = 60mA, Vd =4.62V @Temperature = -45degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Delta			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(dB)
50	21.61	24.26	41.75	25.02	1.05	0.74	33.94	18.28	2.90
100	21.56	24.32	50.89	25.82	1.05	0.73	34.20	18.30	2.91
200	21.49	24.32	49.89	25.44	1.05	0.72	34.18	18.21	2.92
300	21.42	24.25	38.83	23.25	1.05	0.72	34.15	18.13	3.06
400	21.30	24.27	34.57	21.43	1.06	0.71	33.82	18.08	2.99
500	21.19	24.24	33.93	20.42	1.06	0.71	33.66	18.12	2.94
600	21.03	24.26	34.90	19.38	1.06	0.69	33.59	18.09	3.01
700	20.89	24.25	35.15	18.69	1.07	0.68	33.72	18.08	2.99
800	20.75	24.23	36.91	18.22	1.07	0.67	33.77	18.08	2.93
900	20.57	24.24	41.51	17.78	1.08	0.66	33.70	17.81	2.97
1000	20.40	24.25	43.38	17.24	1.09	0.64	33.41	17.80	2.90
1100	20.22	24.22	45.00	16.70	1.09	0.63	33.15	17.85	3.01
1200	20.04	24.19	43.48	16.27	1.10	0.62	32.93	17.85	2.96
1300	19.84	24.22	46.52	15.84	1.11	0.60	32.48	17.65	2.92
1400	19.66	24.17	40.67	15.43	1.11	0.59	32.05	17.52	2.92
1500	19.47	24.19	35.70	15.11	1.12	0.58	31.81	17.39	2.95
1600	19.27	24.18	33.54	14.97	1.13	0.56	31.91	17.20	2.89
1700	19.09	24.15	31.34	14.68	1.14	0.55	32.10	17.15	2.89
1800	18.89	24.12	29.25	14.34	1.15	0.54	31.64	16.93	2.88
1900	18.70	24.12	27.82	14.28	1.16	0.53	31.32	16.81	2.98
2000	18.52	24.08	26.38	14.06	1.16	0.52	31.09	16.59	2.99
2100	18.34	24.08	25.93	13.87	1.17	0.51	30.67	16.42	2.97
2200	18.14	24.06	24.43	13.68	1.18	0.49	30.22	16.23	2.91
2300	17.98	24.02	23.09	13.52	1.19	0.48	29.90	16.03	2.97
2400	17.77	24.01	21.85	13.41	1.20	0.47	29.58	15.69	2.99
2500	17.61	24.00	20.87	13.30	1.21	0.46	29.31	15.25	2.97
2600	17.38	24.10	20.20	13.50	1.24	0.44	29.02	15.01	2.99
2700	17.29	23.92	19.14	13.11	1.22	0.44	28.82	14.87	3.00
2800	17.10	23.92	18.67	13.02	1.23	0.43	28.70	14.62	2.95
2900	16.96	23.86	18.05	12.82	1.23	0.42	28.40	14.47	2.98
3000	16.80	23.82	17.42	12.70	1.24	0.42	28.21	14.42	3.09
3100	16.64	23.90	17.16	12.81	1.26	0.40	27.75	14.13	3.06
3200	16.51	23.83	16.54	12.73	1.26	0.40	27.57	13.99	3.06
3300	16.38	23.79	16.39	12.68	1.27	0.39	27.28	13.96	3.13
3400	16.27	23.71	15.96	12.54	1.26	0.39	26.94	13.69	3.17
3500	16.14	23.66	15.62	12.46	1.26	0.39	26.96	13.42	3.15
3600	16.03	23.58	15.33	12.42	1.26	0.38	26.74	13.14	3.13
3700	15.85	23.72	15.52	12.74	1.31	0.37	26.65	12.84	3.17
3800	15.81	23.49	15.16	12.40	1.27	0.38	26.29	12.66	3.20
4000	15.54	23.62	14.85	12.77	1.32	0.36	25.72	12.41	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: INPUT POWER = -20dBm, Icc = 50mA, Vd =4.16V @Temperature = +85degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Delta			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(dB)
50	21.18	24.11	39.00	29.19	1.06	0.71	30.28	16.52	3.68
100	21.17	23.89	47.21	27.93	1.05	0.73	30.61	16.47	3.71
200	21.10	23.99	41.61	24.93	1.05	0.72	30.69	16.37	3.75
300	20.96	23.97	51.23	23.74	1.06	0.71	30.51	16.28	3.89
400	20.86	24.05	45.40	23.13	1.06	0.69	30.06	16.27	3.85
500	20.73	24.00	43.41	21.85	1.07	0.69	29.92	16.26	3.81
600	20.61	23.99	41.29	20.84	1.07	0.68	29.90	16.22	3.91
700	20.44	23.96	38.70	19.84	1.07	0.67	30.09	16.22	3.86
800	20.27	23.99	37.08	18.90	1.08	0.65	30.20	16.25	3.81
900	20.10	24.01	33.82	18.42	1.09	0.64	30.11	15.93	3.89
1000	19.92	23.95	32.51	17.74	1.09	0.63	29.83	15.96	3.83
1100	19.75	23.96	30.62	17.15	1.10	0.61	29.53	15.94	3.83
1200	19.51	23.97	29.35	16.67	1.11	0.60	29.28	15.95	3.89
1300	19.33	23.98	28.80	16.28	1.12	0.58	28.92	15.75	3.87
1400	19.14	23.97	27.38	15.84	1.13	0.57	28.49	15.57	3.88
1500	18.96	23.90	26.55	15.42	1.13	0.56	28.32	15.40	3.89
1600	18.73	23.96	25.39	15.22	1.15	0.54	28.44	15.19	3.86
1700	18.52	23.94	24.18	14.89	1.16	0.53	28.69	15.13	3.85
1800	18.36	23.91	23.35	14.55	1.16	0.52	28.19	14.91	3.84
1900	18.15	23.87	22.18	14.35	1.17	0.50	27.81	14.69	3.93
2000	17.96	23.86	21.16	14.09	1.18	0.49	27.52	14.52	3.99
2100	17.72	23.87	20.43	13.93	1.19	0.48	27.07	14.40	3.98
2200	17.54	23.88	19.61	13.80	1.20	0.46	26.65	14.20	3.90
2300	17.35	23.83	18.91	13.59	1.21	0.45	26.39	13.95	4.01
2400	17.17	23.82	18.25	13.44	1.22	0.44	26.12	13.53	4.02
2500	16.97	23.78	17.65	13.32	1.23	0.43	25.88	13.12	3.97
2600	16.77	23.85	17.09	13.36	1.25	0.42	25.55	12.93	3.98
2700	16.62	23.72	16.45	13.05	1.24	0.41	25.37	12.81	4.04
2800	16.43	23.75	16.04	13.02	1.26	0.40	25.25	12.58	3.99
2900	16.27	23.68	15.70	12.89	1.26	0.39	24.93	12.50	3.98
3000	16.12	23.63	15.16	12.81	1.27	0.39	24.72	12.37	4.11
3100	15.92	23.68	14.82	12.89	1.29	0.37	24.30	12.13	4.09
3200	15.77	23.66	14.33	12.87	1.30	0.37	24.12	11.90	4.10
3300	15.64	23.59	13.98	12.84	1.30	0.36	23.80	11.87	4.20
3400	15.51	23.53	13.64	12.75	1.30	0.36	23.49	11.64	4.25
3500	15.37	23.47	13.47	12.81	1.30	0.35	23.43	11.21	4.21
3600	15.23	23.47	13.17	12.89	1.32	0.35	23.16	11.01	4.18
3700	15.06	23.61	13.13	13.22	1.36	0.34	23.04	10.66	4.28
3800	14.96	23.38	12.82	12.96	1.33	0.34	22.76	10.44	4.31
4000	14.77	23.39	12.67	13.16	1.36	0.33	22.28	10.06	4.12

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: INPUT POWER = -20dBm, Icc = 40mA, Vd =4.12V @Temperature = +85degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Delta			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(dB)
50	20.86	23.79	27.70	47.07	1.06	0.71	26.99	14.14	3.65
100	20.81	23.65	30.60	36.39	1.05	0.72	27.31	14.13	3.66
200	20.74	23.69	32.38	30.13	1.06	0.71	27.38	13.98	3.70
300	20.67	23.68	31.46	26.66	1.06	0.71	27.20	13.89	3.85
400	20.55	23.69	28.73	24.75	1.06	0.70	26.82	13.89	3.82
500	20.45	23.69	29.16	22.96	1.07	0.69	26.80	13.89	3.79
600	20.26	23.71	28.67	21.59	1.07	0.67	26.85	13.81	3.86
700	20.11	23.71	28.70	20.43	1.08	0.66	27.15	13.82	3.84
800	20.01	23.69	27.47	19.45	1.08	0.65	27.37	13.79	3.77
900	19.78	23.69	26.54	18.73	1.09	0.63	27.35	13.73	3.83
1000	19.62	23.70	26.33	18.03	1.10	0.62	27.17	13.69	3.78
1100	19.45	23.70	24.93	17.42	1.10	0.61	26.92	13.67	3.81
1200	19.28	23.65	24.50	16.92	1.10	0.60	26.78	13.54	3.84
1300	19.10	23.68	24.03	16.49	1.11	0.58	26.62	13.36	3.82
1400	18.87	23.65	23.55	16.00	1.12	0.57	26.31	13.28	3.84
1500	18.70	23.67	22.98	15.58	1.13	0.56	26.26	13.17	3.85
1600	18.51	23.68	22.05	15.36	1.14	0.54	26.45	13.04	3.81
1700	18.30	23.62	21.57	15.00	1.15	0.53	26.87	13.14	3.82
1800	18.10	23.66	20.87	14.65	1.16	0.51	26.50	12.97	3.78
1900	17.90	23.61	20.21	14.44	1.16	0.50	26.22	12.99	3.90
2000	17.72	23.62	19.12	14.16	1.17	0.49	26.04	13.08	3.92
2100	17.54	23.58	18.68	14.00	1.18	0.48	25.68	12.97	3.93
2200	17.34	23.59	17.86	13.84	1.19	0.46	25.39	12.68	3.83
2300	17.15	23.55	17.52	13.61	1.20	0.45	25.25	12.47	3.94
2400	16.94	23.55	16.89	13.43	1.21	0.44	25.06	12.16	3.99
2500	16.76	23.55	16.47	13.32	1.22	0.43	24.86	11.90	3.91
2600	16.55	23.64	15.89	13.33	1.24	0.41	24.57	11.89	3.92
2700	16.44	23.47	15.38	13.01	1.23	0.41	24.38	11.91	4.02
2800	16.24	23.47	15.00	12.97	1.24	0.40	24.28	11.70	3.92
2900	16.10	23.43	14.72	12.84	1.24	0.39	23.99	11.59	3.92
3000	15.90	23.38	14.27	12.75	1.25	0.39	23.82	11.50	4.08
3100	15.76	23.44	13.96	12.83	1.27	0.38	23.44	11.28	4.05
3200	15.59	23.42	13.53	12.78	1.28	0.37	23.29	11.09	4.02
3300	15.48	23.37	13.20	12.75	1.28	0.36	22.96	11.03	4.08
3400	15.31	23.32	12.93	12.68	1.28	0.36	22.67	10.89	4.18
3500	15.17	23.31	12.76	12.74	1.30	0.35	22.62	10.43	4.13
3600	15.02	23.29	12.55	12.81	1.31	0.34	22.35	10.27	4.13
3700	14.88	23.43	12.44	13.12	1.35	0.33	22.21	9.91	4.20
3800	14.80	23.16	12.19	12.88	1.31	0.34	21.94	9.71	4.24
4000	14.57	23.23	12.07	13.09	1.35	0.33	21.51	9.48	4.05

MMIC Amplifier

GALI-5F+

Typical Performance Data

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

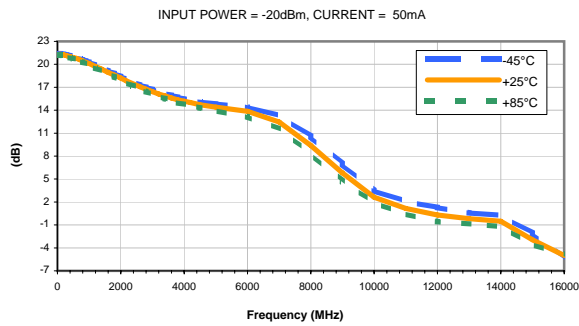
Output Return Loss = -S22 (dB)

TEST CONDITIONS: INPUT POWER = -20dBm, Icc = 60mA, Vd =4.20V @Temperature = +85degC

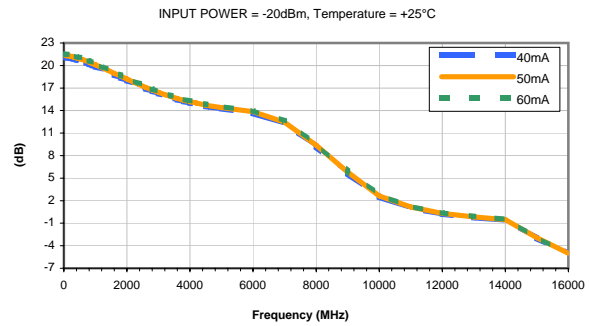
FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Delta			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(dB)
50	21.39	24.32	40.06	25.44	1.06	0.71	32.80	17.89	3.73
100	21.35	24.15	34.83	24.15	1.05	0.73	33.11	17.89	3.80
200	21.28	24.22	31.59	22.49	1.06	0.71	33.17	17.85	3.80
300	21.17	24.14	32.48	22.06	1.06	0.71	32.94	17.81	3.95
400	21.06	24.19	37.00	21.67	1.06	0.70	32.43	17.68	3.92
500	20.94	24.17	38.74	20.76	1.06	0.69	32.13	17.71	3.86
600	20.80	24.21	42.52	19.86	1.07	0.68	31.98	17.67	3.97
700	20.61	24.18	45.02	19.13	1.08	0.66	32.01	17.66	3.91
800	20.47	24.16	52.77	18.35	1.08	0.65	31.94	17.64	3.87
900	20.28	24.18	45.01	17.88	1.09	0.64	31.78	17.35	3.94
1000	20.08	24.17	41.56	17.34	1.10	0.62	31.42	17.29	3.88
1100	19.89	24.16	37.66	16.85	1.10	0.61	31.06	17.25	3.91
1200	19.69	24.14	35.89	16.42	1.11	0.60	30.71	17.21	3.91
1300	19.51	24.16	33.53	16.02	1.12	0.58	30.22	17.07	3.93
1400	19.31	24.14	31.09	15.60	1.13	0.57	29.72	16.92	3.93
1500	19.11	24.11	29.41	15.21	1.14	0.56	29.45	16.72	3.95
1600	18.90	24.12	28.13	15.04	1.15	0.54	29.54	16.45	3.91
1700	18.69	24.10	26.51	14.73	1.16	0.53	29.64	16.27	3.92
1800	18.50	24.09	25.08	14.40	1.17	0.51	29.09	15.92	3.88
1900	18.27	24.08	23.90	14.23	1.18	0.50	28.67	15.65	4.01
2000	18.08	24.05	22.66	13.99	1.19	0.49	28.36	15.33	4.03
2100	17.87	24.03	22.01	13.86	1.20	0.48	27.87	15.16	4.02
2200	17.68	24.02	20.87	13.73	1.21	0.46	27.40	14.95	3.97
2300	17.50	23.97	20.02	13.52	1.21	0.45	27.10	14.71	4.06
2400	17.30	23.98	19.12	13.37	1.23	0.44	26.79	14.33	4.07
2500	17.10	23.95	18.51	13.27	1.24	0.43	26.56	13.84	4.03
2600	16.89	24.03	17.97	13.33	1.26	0.41	26.21	13.65	4.07
2700	16.75	23.88	17.34	13.02	1.25	0.41	26.01	13.48	4.11
2800	16.57	23.89	16.88	12.99	1.27	0.40	25.91	13.19	4.05
2900	16.41	23.83	16.37	12.87	1.27	0.39	25.57	13.07	4.09
3000	16.24	23.78	15.78	12.79	1.27	0.39	25.35	12.97	4.18
3100	16.05	23.81	15.52	12.89	1.30	0.37	24.95	12.63	4.20
3200	15.90	23.77	14.98	12.86	1.30	0.37	24.77	12.52	4.19
3300	15.78	23.73	14.50	12.83	1.30	0.36	24.41	12.46	4.24
3400	15.65	23.66	14.15	12.75	1.30	0.36	24.19	12.26	4.34
3500	15.50	23.63	13.91	12.80	1.31	0.35	24.06	11.81	4.30
3600	15.34	23.61	13.68	12.89	1.33	0.35	23.83	11.52	4.25
3700	15.17	23.76	13.61	13.22	1.37	0.33	23.72	11.21	4.33
3800	15.09	23.49	13.33	12.95	1.34	0.34	23.42	11.02	4.42
4000	14.89	23.51	13.04	13.13	1.36	0.33	22.87	10.75	4.24

Typical Performance Curves

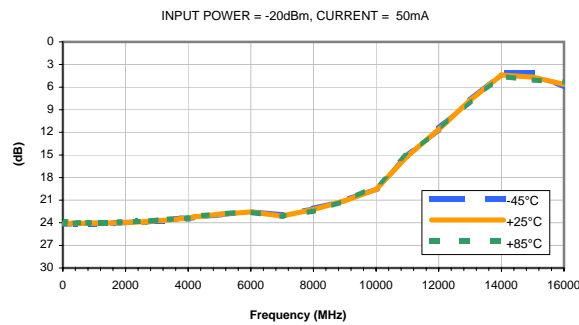
GAIN vs. TEMPERATURE



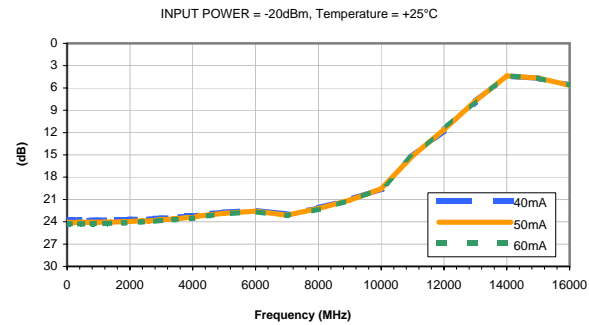
GAIN vs. CURRENT



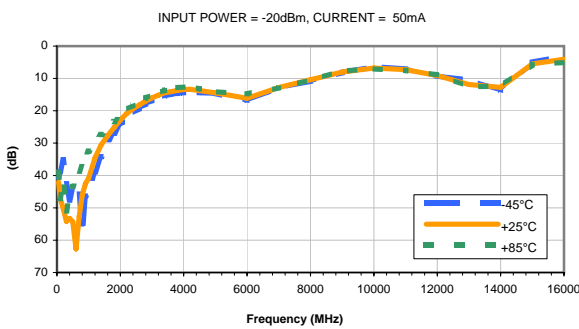
ISOLATION vs. TEMPERATURE



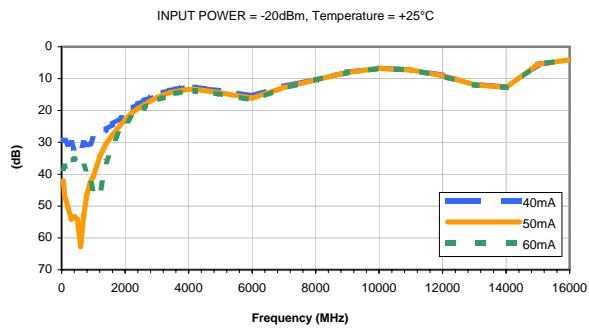
ISOLATION vs. CURRENT



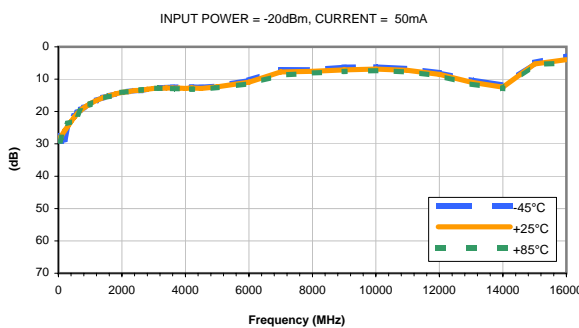
INPUT RETURN LOSS vs. TEMPERATURE



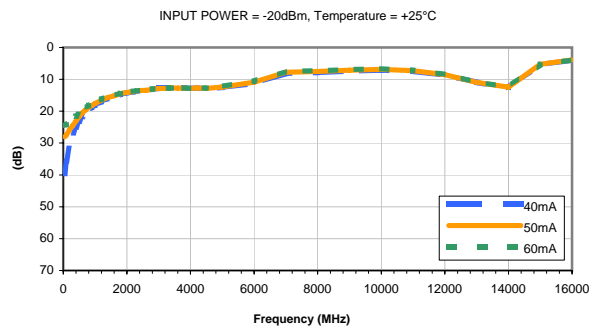
INPUT RETURN LOSS vs. CURRENT



OUTPUT RETURN LOSS vs. TEMPERATURE

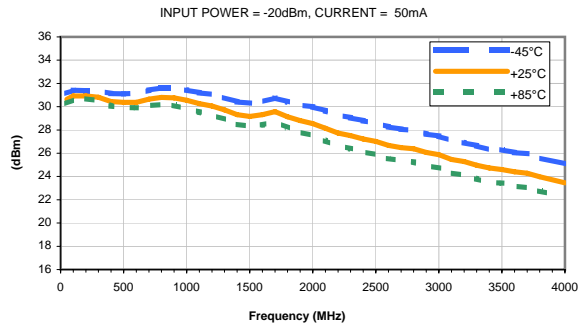


OUTPUT RETURN LOSS vs. CURRENT

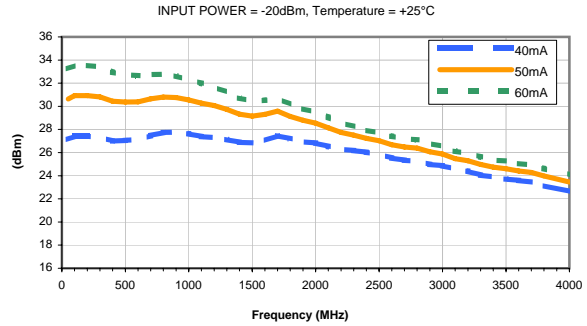


Typical Performance Curves

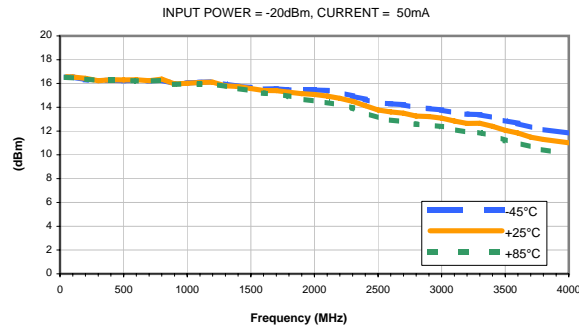
OUTPUT IP-3 vs. TEMPERATURE



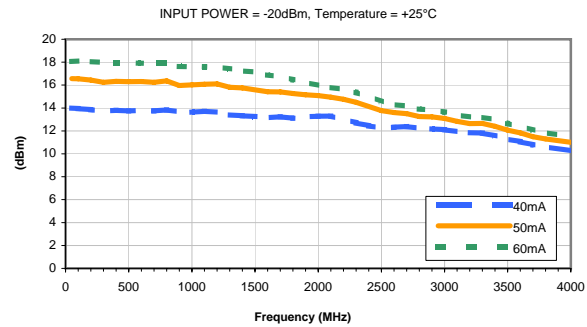
OUTPUT IP-3 vs. CURRENT



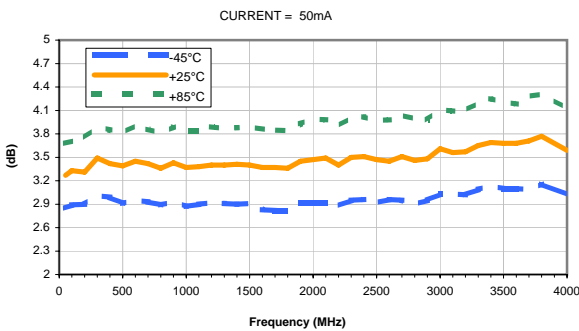
OUTPUT POWER at 1dB Compression vs. TEMPERATURE



OUTPUT POWER at 1dB Compression vs. CURRENT



Noise Figure vs. TEMPERATURE



Noise Figure vs. CURRENT

