

## 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: Vd = 8.00V, Vadj = 1.7V , Id = 139mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
400	22.02	29.21	13.58	10.46	1.29	0.73	38.43	26.99	3.28
600	22.04	29.04	15.19	12.39	1.30	0.76	38.45	27.16	3.23
800	21.95	28.96	15.97	13.50	1.30	0.78	38.22	27.30	3.29
1000	21.82	28.93	16.32	14.77	1.32	0.80	38.04	27.48	3.20
1200	21.71	28.87	16.35	15.44	1.32	0.82	37.83	27.56	3.21
1400	21.53	28.84	16.28	16.20	1.34	0.83	37.84	27.69	3.10
1600	21.41	28.78	16.02	16.19	1.34	0.84	37.98	27.67	3.11
1800	21.21	28.80	15.75	16.12	1.36	0.85	37.68	27.54	3.12
2000	21.11	28.75	15.44	15.67	1.37	0.85	37.41	27.65	3.09
2200	20.93	28.71	14.84	15.11	1.38	0.86	37.24	27.42	3.01
2400	20.76	28.76	14.17	14.81	1.40	0.87	37.40	27.49	2.93
2600	20.49	28.87	13.50	14.19	1.44	0.88	37.49	27.15	3.05
2800	20.21	29.01	12.96	14.44	1.48	0.91	38.14	27.02	3.08
3000	19.91	29.09	12.16	14.23	1.50	0.93	39.50	26.86	3.08
3200	19.74	29.02	11.38	14.57	1.49	0.95	41.03	26.76	3.12
3400	19.58	28.96	10.57	14.39	1.46	0.98	43.69	26.68	3.08
3600	19.36	29.01	9.87	14.22	1.47	1.00	42.22	26.45	3.01
3800	19.24	28.96	9.04	13.24	1.44	1.01	39.83	26.38	2.98
4000	19.08	29.01	8.35	12.27	1.45	1.01	38.65	25.85	2.99
4200	19.02	28.96	7.72	11.07	1.43	1.00	36.83	25.20	2.99
4400	18.93	28.89	7.25	10.39	1.43	0.99	35.36	25.28	3.00
4600	18.92	28.72	7.02	9.92	1.42	0.96	34.28	24.33	2.84
4800	18.93	28.49	7.07	10.07	1.42	0.95	33.95	25.25	2.81
5000	18.98	28.14	7.41	10.44	1.41	0.93	33.87	24.42	2.70
5200	19.15	27.74	8.02	11.73	1.39	0.92	33.06	24.96	2.66
5400	19.29	27.45	8.90	13.31	1.39	0.91	33.40	25.72	2.62
5600	19.47	27.09	9.61	16.60	1.35	0.91	34.22	25.86	2.60
5800	19.52	26.96	10.19	21.49	1.36	0.92	35.13	26.19	2.59
6000	19.45	26.89	10.00	31.42	1.36	0.94	36.28	26.16	2.66
6200	19.22	26.95	9.32	26.65	1.38	0.98	37.49	26.05	2.76
6400	19.04	27.09	8.26	20.99	1.38	1.02	38.44	25.92	2.80
6600	18.93	27.28	7.48	18.66	1.37	1.07	39.12	25.84	2.87
6800	18.98	27.37	6.91	17.85	1.33	1.10	38.92	25.74	2.97
7000	18.86	27.51	6.57	18.83	1.33	1.13	38.77	25.68	2.93
7200	18.66	27.64	6.32	19.11	1.34	1.16	38.43	25.63	2.89
7400	18.57	27.92	6.61	20.05	1.41	1.15	38.25	25.67	2.92
7600	18.29	28.10	7.33	22.79	1.54	1.11	37.90	25.81	2.91
7800	18.04	27.88	8.05	24.67	1.60	1.07	37.64	25.81	2.88
8000	17.93	27.74	8.65	30.63	1.64	1.05	37.64	25.79	2.98

Note: Test data of Die packaged in industry standard 3x3mm 12L MCLP package

## 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: Vd = 7.60V, Vadj = 1.7V , Id = 127mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
400	21.83	28.90	13.52	10.39	1.28	0.72	38.63	26.57	3.26
600	21.86	28.84	15.15	12.25	1.29	0.75	38.50	26.74	3.14
800	21.78	28.78	15.96	13.39	1.30	0.78	38.21	26.90	3.26
1000	21.66	28.76	16.34	14.61	1.31	0.80	38.04	27.09	3.25
1200	21.55	28.71	16.41	15.32	1.32	0.81	37.84	27.17	3.12
1400	21.38	28.67	16.36	16.06	1.33	0.83	37.88	27.29	3.05
1600	21.26	28.61	16.12	16.10	1.34	0.84	38.05	27.25	3.05
1800	21.07	28.63	15.86	16.04	1.36	0.85	37.80	27.17	3.08
2000	20.97	28.51	15.53	15.59	1.36	0.85	37.64	27.25	3.03
2200	20.80	28.54	14.93	15.03	1.38	0.85	37.42	27.00	2.99
2400	20.63	28.57	14.25	14.73	1.39	0.87	37.53	27.09	2.95
2600	20.37	28.67	13.57	14.15	1.43	0.88	37.73	26.73	3.00
2800	20.09	28.85	13.04	14.36	1.48	0.90	38.40	26.64	3.04
3000	19.80	28.92	12.24	14.21	1.50	0.93	39.73	26.51	3.04
3200	19.63	28.84	11.46	14.52	1.48	0.95	41.33	26.51	3.12
3400	19.48	28.78	10.66	14.40	1.45	0.97	44.45	26.43	3.06
3600	19.27	28.83	9.94	14.21	1.46	1.00	41.00	26.31	3.06
3800	19.14	28.80	9.12	13.28	1.43	1.01	39.22	26.34	2.96
4000	18.99	28.84	8.41	12.29	1.44	1.01	38.12	25.92	3.02
4200	18.94	28.78	7.77	11.12	1.42	1.00	36.56	25.49	2.97
4400	18.86	28.74	7.28	10.40	1.42	0.98	35.17	25.53	2.94
4600	18.85	28.63	7.04	9.96	1.42	0.96	34.08	24.53	2.84
4800	18.86	28.33	7.08	10.08	1.41	0.95	33.64	25.39	2.80
5000	18.91	28.01	7.42	10.48	1.41	0.93	33.42	24.47	2.71
5200	19.07	27.64	8.05	11.75	1.39	0.92	32.58	24.85	2.64
5400	19.22	27.31	8.94	13.39	1.38	0.91	33.02	25.56	2.63
5600	19.41	27.03	9.69	16.68	1.36	0.91	33.63	25.64	2.59
5800	19.46	26.83	10.30	21.76	1.35	0.92	34.72	25.88	2.58
6000	19.39	26.79	10.12	31.81	1.36	0.94	36.14	25.85	2.60
6200	19.18	26.84	9.42	26.28	1.38	0.97	37.98	25.67	2.69
6400	18.99	26.96	8.35	20.79	1.37	1.02	38.94	25.53	2.76
6600	18.89	27.17	7.56	18.48	1.37	1.06	39.22	25.44	2.81
6800	18.94	27.27	7.00	17.72	1.33	1.09	38.92	25.37	2.96
7000	18.83	27.41	6.64	18.66	1.33	1.13	38.48	25.30	2.93
7200	18.63	27.55	6.40	19.03	1.34	1.15	38.10	25.29	2.93
7400	18.55	27.80	6.68	19.95	1.40	1.14	37.98	25.35	2.94
7600	18.26	27.99	7.40	22.83	1.54	1.11	37.76	25.53	2.85
7800	18.02	27.76	8.12	24.87	1.59	1.07	37.55	25.54	2.86
8000	17.92	27.63	8.73	31.58	1.63	1.04	37.55	25.52	2.92

Note: Test data of Die packaged in industry standard 3x3mm 12L MCLP package

## 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: Vd = 8.40V, Vadj = 1.7V , Id = 150mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
400	22.25	29.26	13.50	10.60	1.27	0.72	38.44	27.45	3.32
600	22.26	29.18	15.11	12.46	1.29	0.76	38.55	27.64	3.23
800	22.16	29.10	15.90	13.74	1.29	0.78	38.36	27.75	3.30
1000	22.04	29.07	16.20	14.88	1.31	0.80	38.21	27.95	3.18
1200	21.91	29.01	16.23	15.70	1.31	0.82	38.03	28.01	3.23
1400	21.74	29.00	16.13	16.31	1.33	0.83	38.00	28.11	3.09
1600	21.59	28.93	15.88	16.41	1.34	0.84	38.19	28.06	3.07
1800	21.40	28.89	15.60	16.26	1.35	0.85	37.76	27.99	3.06
2000	21.29	28.85	15.29	15.81	1.36	0.85	37.37	28.09	3.02
2200	21.12	28.81	14.70	15.26	1.37	0.86	37.31	27.86	3.08
2400	20.93	28.86	14.05	14.89	1.39	0.87	37.34	27.93	3.14
2600	20.67	28.97	13.37	14.36	1.42	0.88	37.45	27.61	3.05
2800	20.38	29.10	12.83	14.48	1.47	0.91	38.08	27.45	3.08
3000	20.08	29.21	12.01	14.38	1.49	0.93	39.42	27.30	3.12
3200	19.91	29.09	11.24	14.57	1.47	0.96	40.86	27.05	3.08
3400	19.73	29.07	10.44	14.49	1.45	0.98	43.23	26.98	3.04
3600	19.53	29.09	9.69	14.15	1.45	1.00	43.42	26.68	3.09
3800	19.37	29.09	8.91	13.25	1.43	1.02	40.43	26.49	3.02
4000	19.23	29.10	8.21	12.17	1.43	1.02	39.09	25.80	3.04
4200	19.15	29.05	7.59	11.06	1.42	1.00	37.18	24.90	3.02
4400	19.08	28.95	7.11	10.29	1.41	0.99	35.60	24.96	2.90
4600	19.05	28.83	6.90	9.90	1.41	0.97	34.59	24.03	2.85
4800	19.06	28.54	6.95	9.97	1.40	0.95	34.36	25.04	2.82
5000	19.12	28.26	7.29	10.43	1.40	0.93	34.00	24.26	2.77
5200	19.27	27.84	7.89	11.60	1.38	0.92	33.37	24.91	2.70
5400	19.43	27.50	8.74	13.27	1.37	0.91	34.06	25.86	2.65
5600	19.60	27.24	9.46	16.32	1.35	0.91	34.72	26.06	2.60
5800	19.65	27.01	10.02	21.32	1.34	0.92	35.62	26.48	2.60
6000	19.57	26.94	9.83	30.44	1.35	0.94	36.52	26.46	2.64
6200	19.36	27.02	9.12	26.99	1.37	0.98	37.36	26.40	2.79
6400	19.15	27.18	8.10	21.39	1.37	1.03	38.06	26.29	2.73
6600	19.06	27.36	7.31	18.81	1.36	1.07	38.77	26.22	2.87
6800	19.09	27.44	6.77	18.15	1.32	1.11	38.72	26.08	2.90
7000	18.99	27.57	6.40	18.98	1.31	1.14	38.75	25.98	2.94
7200	18.76	27.72	6.19	19.38	1.33	1.17	38.58	25.95	2.95
7400	18.69	28.00	6.47	20.08	1.39	1.15	38.44	25.93	2.94
7600	18.38	28.19	7.19	22.83	1.53	1.12	38.20	26.02	2.96
7800	18.15	27.95	7.88	24.06	1.59	1.08	37.95	26.04	2.81
8000	18.03	27.85	8.48	29.61	1.64	1.05	37.84	26.01	3.01

Note: Test data of Die packaged in industry standard 3x3mm 12L MCLP package



# MMIC Amplifier Die

# PMA3-83MP-D+

## 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: Vd = 8.00V, Vadj = 1.7V, Id = 176mA Temperature = -45°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
400	21.65	29.33	12.82	8.27	1.28	0.67	38.92	27.36	2.93
600	21.72	29.21	14.08	9.49	1.30	0.71	39.20	27.50	2.84
800	21.68	29.14	14.94	9.92	1.30	0.72	39.03	27.60	2.82
1000	21.62	29.05	15.68	10.98	1.32	0.75	38.82	27.83	2.86
1200	21.58	28.95	16.20	11.49	1.31	0.76	38.50	27.96	2.83
1400	21.45	28.93	16.48	12.30	1.34	0.78	38.34	28.10	2.71
1600	21.40	28.85	16.28	12.52	1.33	0.79	38.23	28.14	2.69
1800	21.20	28.91	16.06	12.65	1.37	0.80	37.84	28.02	2.66
2000	21.15	28.76	15.52	12.42	1.35	0.80	37.55	28.09	2.56
2200	20.97	28.85	14.68	11.91	1.38	0.80	37.31	27.87	2.65
2400	20.86	28.76	13.77	11.97	1.38	0.81	37.15	27.96	2.74
2600	20.57	28.97	13.08	11.44	1.42	0.83	37.18	27.63	2.65
2800	20.38	29.02	12.76	12.05	1.45	0.85	37.33	27.53	2.71
3000	20.08	29.15	12.58	12.31	1.50	0.88	38.22	27.44	2.71
3200	20.03	28.97	11.97	13.43	1.47	0.91	38.94	27.49	2.65
3400	19.98	28.85	11.45	13.98	1.44	0.93	40.30	27.43	2.65
3600	19.84	28.82	11.09	15.51	1.45	0.96	43.80	27.31	2.57
3800	19.85	28.68	10.39	15.60	1.41	0.98	40.93	27.28	2.55
4000	19.73	28.77	9.80	15.52	1.44	0.99	39.34	26.93	2.61
4200	19.77	28.66	9.10	13.88	1.41	0.98	38.06	26.59	2.50
4400	19.69	28.63	8.51	12.97	1.42	0.97	36.30	26.77	2.41
4600	19.76	28.48	8.07	11.98	1.39	0.95	35.19	25.59	2.32
4800	19.73	28.38	8.03	12.00	1.40	0.94	35.11	26.39	2.31
5000	19.76	28.16	8.29	12.07	1.39	0.92	34.89	25.89	2.20
5200	19.82	27.82	8.96	13.68	1.38	0.91	34.14	26.23	2.28
5400	19.81	27.52	10.02	15.49	1.38	0.89	34.77	27.02	2.10
5600	19.94	27.29	10.82	19.57	1.36	0.89	35.53	27.31	2.14
5800	20.02	27.06	11.48	22.85	1.35	0.88	36.65	27.27	2.15
6000	20.03	27.03	11.35	21.92	1.35	0.88	38.20	27.28	2.20
6200	19.89	27.13	10.63	19.29	1.37	0.91	41.09	27.00	2.26
6400	19.71	27.26	9.43	17.39	1.38	0.95	43.33	26.72	2.30
6600	19.57	27.26	8.57	16.53	1.37	0.98	42.95	26.62	2.38
6800	19.65	27.28	7.84	16.14	1.32	1.01	41.78	26.44	2.41
7000	19.61	27.39	7.30	17.14	1.30	1.05	41.31	26.29	2.45
7200	19.69	27.40	6.74	18.79	1.25	1.09	40.59	26.27	2.50
7400	19.39	27.72	7.12	20.50	1.33	1.10	40.23	26.00	2.45
7600	19.17	27.54	7.66	25.62	1.37	1.07	40.63	26.54	2.42
7800	18.85	27.47	8.56	38.34	1.46	1.03	40.39	26.55	2.43
8000	18.66	27.73	9.50	24.82	1.58	1.00	40.11	26.56	2.45

Note: Test data of Die packaged in industry standard 3x3mm 12L MCLP package



## 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: Vd = 7.60V, Vadj = 1.7V Id = 162mA @ Temperature = -45°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
400	21.78	29.25	12.43	8.23	1.26	0.66	38.93	26.74	2.86
600	21.83	29.10	13.70	9.15	1.27	0.69	39.11	26.87	2.83
800	21.79	29.05	14.58	9.84	1.28	0.71	38.94	27.02	2.88
1000	21.75	28.97	15.26	10.60	1.29	0.73	38.80	27.25	2.78
1200	21.69	28.90	15.87	11.33	1.30	0.75	38.55	27.38	2.79
1400	21.60	28.82	16.13	11.93	1.30	0.77	38.41	27.56	2.68
1600	21.50	28.80	16.07	12.26	1.32	0.78	38.34	27.56	2.66
1800	21.35	28.76	15.77	12.39	1.33	0.79	38.06	27.50	2.60
2000	21.26	28.73	15.29	12.10	1.34	0.79	37.86	27.56	2.58
2200	21.12	28.68	14.38	11.77	1.34	0.79	38.06	27.36	2.61
2400	20.95	28.74	13.55	11.60	1.36	0.80	37.51	27.41	2.63
2600	20.73	28.85	12.82	11.38	1.38	0.82	37.45	27.12	2.62
2800	20.47	28.94	12.55	11.67	1.43	0.84	37.67	27.02	2.64
3000	20.22	29.07	12.32	12.26	1.47	0.87	38.31	26.94	2.72
3200	20.16	28.87	11.84	13.00	1.43	0.90	39.14	27.04	2.61
3400	20.10	28.77	11.35	14.02	1.41	0.93	40.38	26.93	2.60
3600	20.02	28.69	10.90	15.14	1.40	0.95	43.16	26.85	2.55
3800	19.95	28.63	10.37	15.91	1.39	0.98	40.22	26.90	2.58
4000	19.91	28.58	9.74	15.58	1.39	0.98	39.18	26.57	2.57
4200	19.89	28.51	9.06	14.33	1.38	0.98	38.09	26.39	2.55
4400	19.87	28.52	8.41	13.10	1.38	0.97	36.38	26.54	2.37
4600	19.88	28.42	8.03	12.34	1.37	0.95	35.14	25.47	2.34
4800	19.90	28.25	7.93	12.09	1.37	0.93	34.91	26.32	2.56
5000	19.91	28.06	8.22	12.45	1.37	0.92	34.94	25.78	2.26
5200	19.92	27.76	8.90	13.78	1.36	0.91	34.01	26.19	2.21
5400	19.96	27.43	9.94	16.01	1.36	0.89	34.81	26.79	2.14
5600	20.05	27.26	10.86	19.56	1.35	0.89	35.85	27.10	2.15
5800	20.12	27.02	11.55	23.16	1.33	0.87	37.70	26.92	2.14
6000	20.12	27.01	11.38	21.59	1.34	0.88	40.19	26.88	2.21
6200	20.01	27.07	10.59	18.67	1.35	0.90	43.76	26.60	2.28
6400	19.79	27.21	9.44	17.17	1.36	0.94	41.43	26.29	2.26
6600	19.69	27.24	8.54	16.07	1.35	0.97	39.33	26.16	2.33
6800	19.71	27.26	7.84	15.95	1.31	1.01	38.40	25.94	2.48
7000	19.76	27.29	7.20	16.70	1.26	1.05	38.31	25.82	2.46
7200	19.74	27.39	6.76	18.62	1.24	1.09	38.32	25.83	2.52
7400	19.53	27.62	7.10	20.08	1.30	1.09	38.17	25.50	2.50
7600	19.25	27.53	7.69	25.63	1.37	1.06	39.55	26.09	2.44
7800	18.98	27.44	8.53	35.78	1.44	1.03	39.94	26.09	2.46
8000	18.73	27.74	9.57	23.81	1.57	1.00	39.88	26.13	2.43

Note: Test data of Die packaged in industry standard 3x3mm 12L MCLP package



## 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: Vd = 8.40V, Vadj = 1.7V , Id = 182mA @ Temperature = -45°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
400	21.62	29.41	13.02	8.34	1.30	0.68	38.95	27.92	2.94
600	21.72	29.26	14.29	9.79	1.31	0.72	39.34	28.06	2.84
800	21.64	29.21	15.15	10.03	1.31	0.73	39.18	28.16	2.85
1000	21.61	29.10	15.89	11.39	1.33	0.76	38.97	28.38	2.83
1200	21.54	29.02	16.42	11.59	1.33	0.77	38.65	28.50	2.77
1400	21.42	29.00	16.66	12.80	1.35	0.79	38.46	28.63	2.76
1600	21.36	28.90	16.44	12.60	1.34	0.79	38.32	28.65	2.71
1800	21.17	28.94	16.21	13.17	1.38	0.81	37.80	28.54	2.75
2000	21.10	28.80	15.70	12.46	1.36	0.80	37.36	28.59	2.64
2200	20.92	28.87	14.85	12.38	1.39	0.81	37.11	28.38	2.68
2400	20.83	28.86	13.93	12.00	1.39	0.82	36.98	28.41	2.72
2600	20.51	28.99	13.24	11.85	1.44	0.84	36.94	28.14	2.67
2800	20.34	29.06	12.90	12.11	1.46	0.86	37.20	28.03	2.68
3000	19.98	29.22	12.77	12.71	1.53	0.89	37.85	27.93	2.75
3200	20.02	28.95	12.02	13.48	1.47	0.91	38.58	27.98	2.66
3400	19.85	28.91	11.55	14.41	1.47	0.94	39.67	27.85	2.63
3600	19.83	28.79	11.07	15.33	1.44	0.96	42.77	27.71	2.61
3800	19.72	28.83	10.44	15.91	1.45	0.98	42.25	27.74	2.54
4000	19.66	28.79	9.77	14.90	1.44	0.99	40.03	27.26	2.61
4200	19.67	28.69	9.10	13.95	1.43	0.98	38.42	26.81	2.47
4400	19.59	28.70	8.51	12.42	1.43	0.97	36.81	26.98	2.43
4600	19.67	28.52	8.07	12.03	1.41	0.95	35.33	25.69	2.37
4800	19.59	28.46	8.07	11.50	1.43	0.93	35.06	26.54	2.35
5000	19.72	28.15	8.24	12.14	1.40	0.92	34.91	26.03	2.26
5200	19.63	27.93	9.07	13.08	1.42	0.91	34.24	26.29	2.21
5400	19.79	27.47	9.94	15.66	1.38	0.90	34.79	27.22	2.19
5600	19.82	27.37	10.79	18.45	1.38	0.89	35.50	27.49	2.14
5800	19.95	27.11	11.39	23.71	1.36	0.89	36.47	27.63	2.16
6000	19.91	27.10	11.37	22.19	1.37	0.89	37.56	27.62	2.19
6200	19.87	27.10	10.58	19.57	1.37	0.91	39.36	27.38	2.29
6400	19.59	27.29	9.48	18.08	1.40	0.95	40.92	27.12	2.30
6600	19.56	27.26	8.53	16.66	1.37	0.98	42.58	27.03	2.35
6800	19.50	27.40	7.93	16.74	1.36	1.02	43.15	26.85	2.44
7000	19.63	27.29	7.20	17.24	1.28	1.06	42.50	26.72	2.44
7200	19.50	27.53	6.86	19.67	1.30	1.10	41.64	26.74	2.54
7400	19.39	27.64	7.02	20.37	1.31	1.10	41.27	26.48	2.48
7600	19.02	27.64	7.70	27.19	1.41	1.07	40.59	26.90	2.44
7800	18.83	27.47	8.48	38.96	1.46	1.04	39.98	26.97	2.39
8000	18.50	27.84	9.55	24.33	1.62	1.00	39.70	27.01	2.49

Note: Test data of Die packaged in industry standard 3x3mm 12L MCLP package



## 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: Vd = 8.00V, Vadj = 1.7V , Id = 117mA @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
400	22.00	28.94	13.59	12.37	1.29	0.76	40.60	26.71	3.47
600	21.99	28.82	15.16	15.66	1.30	0.79	40.52	26.92	3.51
800	21.86	28.77	15.65	17.88	1.31	0.82	40.16	27.03	3.46
1000	21.68	28.75	15.64	19.57	1.32	0.84	40.45	27.17	3.43
1200	21.52	28.70	15.37	19.80	1.33	0.85	40.72	27.21	3.42
1400	21.30	28.68	15.12	19.82	1.34	0.86	41.34	27.29	3.28
1600	21.14	28.67	14.81	18.91	1.35	0.87	42.56	27.19	3.35
1800	20.93	28.66	14.65	18.37	1.37	0.88	41.26	27.12	3.31
2000	20.81	28.55	14.50	17.65	1.37	0.88	40.62	27.09	3.25
2200	20.64	28.55	14.20	17.15	1.39	0.89	40.78	27.06	3.24
2400	20.44	28.61	13.76	16.57	1.42	0.90	41.88	27.00	3.23
2600	20.18	28.70	13.18	15.86	1.45	0.91	42.06	26.79	3.32
2800	19.88	28.81	12.52	15.61	1.49	0.93	41.90	26.62	3.32
3000	19.54	28.95	11.55	14.77	1.51	0.96	39.92	26.49	3.36
3200	19.29	28.95	10.68	14.35	1.51	0.98	38.16	26.13	3.32
3400	19.05	28.99	9.75	13.45	1.49	1.00	37.33	26.15	3.31
3600	18.76	29.11	8.92	12.52	1.49	1.02	35.31	25.85	3.26
3800	18.56	29.09	8.07	11.32	1.46	1.03	34.30	25.42	3.28
4000	18.36	29.19	7.41	10.32	1.47	1.02	33.76	24.86	3.36
4200	18.26	29.15	6.86	9.39	1.45	1.00	33.02	23.95	3.21
4400	18.19	29.11	6.46	8.83	1.45	0.98	32.56	24.03	3.17
4600	18.19	28.94	6.29	8.55	1.44	0.96	32.08	22.87	3.09
4800	18.25	28.69	6.32	8.69	1.43	0.95	31.91	23.67	3.10
5000	18.32	28.32	6.61	9.13	1.42	0.94	31.30	22.75	2.96
5200	18.49	27.80	7.15	10.31	1.40	0.94	30.91	23.21	2.98
5400	18.64	27.37	7.99	11.89	1.39	0.93	31.20	24.05	2.95
5600	18.83	27.02	8.67	14.78	1.37	0.95	31.31	24.19	2.89
5800	18.92	26.76	9.25	19.48	1.36	0.96	32.04	24.79	2.95
6000	18.92	26.75	9.13	29.33	1.37	0.98	33.21	24.79	3.00
6200	18.73	26.85	8.60	30.88	1.39	1.02	34.26	24.89	3.07
6400	18.48	27.01	7.72	22.28	1.39	1.07	34.81	24.96	3.14
6600	18.29	27.21	7.07	19.37	1.40	1.11	35.40	24.93	3.24
6800	18.25	27.34	6.56	18.18	1.38	1.14	35.60	24.89	3.30
7000	18.06	27.51	6.20	18.02	1.38	1.17	35.31	24.81	3.28
7200	17.88	27.58	5.96	16.78	1.37	1.19	35.04	24.69	3.32
7400	17.77	27.68	6.12	16.94	1.42	1.17	35.05	24.60	3.31
7600	17.49	27.81	6.77	17.92	1.55	1.13	34.89	24.46	3.31
7800	17.25	27.51	7.50	19.45	1.61	1.09	34.77	24.44	3.26
8000	17.14	27.38	8.17	25.42	1.67	1.07	34.83	24.30	3.32

Note: Test data of Die packaged in industry standard 3x3mm 12L MCLP package



## 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: Vd = 7.60V, Vadj = 1.7V, Id = 107mA @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
400	21.88	28.76	13.50	12.47	1.28	0.76	41.45	26.24	3.51
600	21.88	28.64	15.07	15.84	1.29	0.79	40.90	26.44	3.51
800	21.74	28.57	15.59	18.32	1.30	0.81	40.20	26.54	3.45
1000	21.58	28.56	15.54	19.84	1.31	0.83	40.39	26.71	3.41
1200	21.40	28.52	15.30	20.30	1.32	0.85	40.94	26.74	3.48
1400	21.21	28.49	15.03	19.92	1.33	0.86	41.63	26.82	3.34
1600	21.03	28.48	14.74	19.19	1.34	0.87	42.81	26.76	3.34
1800	20.84	28.45	14.58	18.38	1.36	0.88	41.83	26.67	3.31
2000	20.71	28.35	14.45	17.77	1.36	0.88	41.02	26.65	3.26
2200	20.54	28.33	14.16	17.20	1.38	0.89	41.14	26.61	3.30
2400	20.34	28.44	13.74	16.61	1.41	0.90	41.98	26.51	3.34
2600	20.09	28.52	13.17	15.94	1.44	0.91	41.86	26.28	3.32
2800	19.79	28.67	12.50	15.59	1.48	0.93	41.63	26.14	3.28
3000	19.46	28.77	11.52	14.79	1.50	0.96	39.47	25.98	3.31
3200	19.21	28.80	10.64	14.24	1.49	0.98	37.84	25.74	3.39
3400	18.95	28.83	9.71	13.37	1.48	1.00	36.95	25.82	3.34
3600	18.69	28.92	8.83	12.34	1.47	1.02	35.20	25.55	3.32
3800	18.45	28.99	8.02	11.20	1.46	1.02	34.06	25.13	3.34
4000	18.28	29.08	7.33	10.15	1.46	1.02	33.75	24.69	3.31
4200	18.17	29.10	6.78	9.29	1.45	1.00	33.14	23.76	3.27
4400	18.11	29.01	6.37	8.70	1.43	0.98	32.72	23.89	3.22
4600	18.11	28.86	6.20	8.46	1.43	0.96	32.02	22.58	3.12
4800	18.17	28.63	6.22	8.55	1.42	0.95	31.87	23.43	3.12
5000	18.27	28.22	6.49	9.03	1.41	0.94	31.32	22.38	3.00
5200	18.42	27.72	7.05	10.14	1.39	0.94	30.97	22.93	2.94
5400	18.59	27.29	7.85	11.79	1.38	0.94	30.98	23.73	2.94
5600	18.76	26.92	8.59	14.57	1.36	0.95	31.18	23.90	2.94
5800	18.87	26.66	9.18	19.40	1.35	0.96	31.81	24.46	2.93
6000	18.86	26.64	9.10	28.52	1.36	0.98	32.77	24.45	2.94
6200	18.72	26.72	8.54	29.74	1.37	1.02	33.79	24.52	3.09
6400	18.45	26.93	7.72	22.20	1.39	1.07	34.38	24.56	3.18
6600	18.27	27.10	7.06	19.20	1.39	1.11	34.93	24.52	3.19
6800	18.20	27.24	6.58	18.12	1.37	1.14	35.09	24.49	3.27
7000	18.04	27.35	6.18	17.75	1.36	1.17	34.77	24.41	3.26
7200	17.83	27.48	5.96	16.58	1.37	1.19	34.50	24.33	3.30
7400	17.75	27.54	6.09	16.60	1.39	1.17	34.51	24.27	3.31
7600	17.46	27.63	6.73	17.68	1.52	1.13	34.47	24.11	3.27
7800	17.24	27.32	7.44	19.12	1.58	1.09	34.31	24.12	3.33
8000	17.12	27.18	8.14	25.33	1.64	1.07	34.44	24.00	3.31

Note: Test data of Die packaged in industry standard 3x3mm 12L MCLP package





## 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: Vd = 8.40V, Vadj = 1.7V , Id = 127mA @ Temperature = +85°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
400	22.09	29.12	13.68	12.26	1.30	0.76	40.16	27.15	3.67
600	22.06	29.00	15.26	15.54	1.31	0.80	40.16	27.36	3.46
800	21.95	28.93	15.74	17.47	1.31	0.82	40.09	27.47	3.50
1000	21.75	28.94	15.76	19.40	1.34	0.84	40.45	27.63	3.47
1200	21.60	28.87	15.47	19.37	1.34	0.85	40.68	27.63	3.48
1400	21.36	28.87	15.23	19.79	1.36	0.86	41.23	27.70	3.41
1600	21.22	28.82	14.89	18.68	1.36	0.87	42.27	27.59	3.48
1800	21.00	28.83	14.73	18.42	1.39	0.88	41.02	27.50	3.34
2000	20.88	28.69	14.57	17.54	1.38	0.88	40.50	27.47	3.36
2200	20.70	28.72	14.26	17.13	1.41	0.89	40.50	27.50	3.32
2400	20.51	28.78	13.80	16.55	1.43	0.90	41.40	27.41	3.27
2600	20.23	28.87	13.22	15.82	1.47	0.92	41.66	27.22	3.33
2800	19.94	29.01	12.57	15.66	1.51	0.94	41.86	26.97	3.34
3000	19.60	29.08	11.61	14.77	1.52	0.96	40.37	26.82	3.39
3200	19.34	29.10	10.73	14.46	1.52	0.98	38.56	26.34	3.37
3400	19.12	29.10	9.80	13.54	1.50	1.00	37.77	26.38	3.47
3600	18.80	29.24	9.03	12.68	1.52	1.02	35.50	25.98	3.39
3800	18.64	29.23	8.13	11.42	1.48	1.03	33.61	25.55	3.38
4000	18.41	29.33	7.50	10.45	1.49	1.02	34.26	24.92	3.34
4200	18.35	29.25	6.93	9.47	1.46	1.00	33.42	23.91	3.38
4400	18.24	29.23	6.56	8.96	1.47	0.98	32.67	23.95	3.30
4600	18.27	29.03	6.37	8.61	1.45	0.96	32.17	22.86	3.22
4800	18.29	28.79	6.43	8.81	1.45	0.95	32.05	23.74	3.19
5000	18.37	28.42	6.72	9.19	1.44	0.94	31.59	22.88	3.06
5200	18.55	27.92	7.26	10.45	1.41	0.94	31.02	23.44	3.07
5400	18.68	27.51	8.10	11.93	1.41	0.93	31.45	24.30	3.01
5600	18.89	27.14	8.74	14.96	1.38	0.95	31.81	24.47	2.99
5800	18.97	26.90	9.29	19.46	1.37	0.96	32.72	25.12	2.96
6000	18.96	26.86	9.15	30.04	1.38	0.98	33.81	25.11	3.00
6200	18.74	26.97	8.62	32.13	1.41	1.02	34.89	25.25	3.11
6400	18.52	27.13	7.70	22.38	1.41	1.07	35.46	25.38	3.14
6600	18.31	27.31	7.07	19.67	1.42	1.11	35.96	25.34	3.31
6800	18.30	27.47	6.54	18.35	1.39	1.14	36.11	25.29	3.30
7000	18.08	27.62	6.25	18.42	1.41	1.17	35.85	25.18	3.36
7200	17.94	27.70	5.95	17.00	1.38	1.19	35.66	25.03	3.40
7400	17.80	27.87	6.13	17.27	1.45	1.17	35.49	24.93	3.33
7600	17.55	27.94	6.76	18.07	1.56	1.14	35.28	24.77	3.37
7800	17.29	27.66	7.52	19.65	1.63	1.10	35.11	24.76	3.31
8000	17.19	27.48	8.14	25.28	1.68	1.07	35.18	24.60	3.28

Note: Test data of Die packaged in industry standard 3x3mm 12L MCLP package



## 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: Vd = 8.00V , Iadj connection = Ground, Id = 63mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
400	20.23	26.83	13.32	13.23	1.27	0.75	35.32	27.04	3.36
600	20.29	26.73	14.98	18.63	1.28	0.79	35.06	27.27	3.27
800	20.17	26.72	15.52	25.07	1.29	0.81	34.42	27.45	3.35
1000	20.04	26.69	15.43	29.40	1.29	0.83	34.16	27.74	3.35
1200	19.87	26.69	15.15	25.57	1.30	0.84	33.96	27.88	3.25
1400	19.70	26.68	14.89	22.12	1.31	0.85	34.01	28.18	3.17
1600	19.54	26.67	14.73	20.30	1.32	0.85	34.02	28.13	3.24
1800	19.37	26.67	14.72	18.98	1.33	0.86	33.87	28.05	3.14
2000	19.28	26.59	14.80	18.41	1.34	0.86	33.91	28.18	3.16
2200	19.16	26.57	14.72	17.94	1.35	0.87	33.71	27.94	3.08
2400	18.99	26.64	14.41	17.24	1.37	0.88	33.44	28.06	2.99
2600	18.77	26.73	13.94	16.58	1.40	0.90	33.27	27.75	3.15
2800	18.47	26.92	13.32	16.04	1.44	0.92	33.45	27.74	3.22
3000	18.15	27.09	12.26	14.91	1.47	0.94	33.96	27.59	3.18
3200	17.95	27.10	11.20	13.82	1.45	0.95	34.52	27.74	3.15
3400	17.71	27.16	10.06	12.46	1.43	0.97	35.04	27.53	3.18
3600	17.47	27.28	9.03	11.15	1.41	0.97	35.33	27.49	3.12
3800	17.23	27.43	8.07	9.91	1.41	0.97	35.25	27.55	3.13
4000	17.04	27.55	7.27	8.85	1.40	0.96	35.72	27.22	3.18
4200	16.93	27.62	6.63	8.04	1.39	0.94	35.81	26.71	3.14
4400	16.85	27.57	6.17	7.50	1.37	0.91	35.83	26.57	3.07
4600	16.84	27.45	5.95	7.30	1.37	0.90	35.95	25.03	3.02
4800	16.91	27.25	5.96	7.40	1.37	0.89	34.89	26.30	2.98
5000	17.07	26.91	6.18	7.79	1.36	0.88	36.22	24.68	2.87
5200	17.31	26.51	6.67	8.60	1.34	0.88	34.41	25.36	2.84
5400	17.63	26.12	7.33	9.74	1.32	0.88	33.50	26.25	2.77
5600	17.93	25.75	8.07	11.66	1.29	0.89	33.31	26.51	2.67
5800	18.13	25.41	8.84	14.54	1.27	0.91	33.52	26.45	2.67
6000	18.17	25.21	9.12	18.39	1.27	0.94	34.19	26.52	2.68
6200	18.14	25.17	8.84	22.22	1.26	0.98	35.48	26.31	2.83
6400	18.08	25.30	8.07	21.09	1.25	1.03	36.70	26.09	2.82
6600	18.05	25.45	7.41	19.03	1.23	1.07	38.35	25.99	2.89
6800	17.98	25.64	6.90	17.59	1.22	1.10	38.75	25.82	2.98
7000	17.80	25.85	6.53	16.71	1.23	1.12	40.41	25.71	3.03
7200	17.49	26.10	6.31	15.53	1.27	1.13	40.27	25.65	3.01
7400	17.36	26.20	6.39	14.75	1.30	1.12	39.05	25.64	2.93
7600	17.17	26.20	6.55	14.81	1.35	1.09	39.35	25.90	2.97
7800	17.14	25.97	6.79	15.51	1.35	1.07	40.02	25.86	2.95
8000	17.13	25.86	7.58	18.94	1.41	1.05	41.20	25.90	2.94

Note: Test data of Die packaged in industry standard 3x3mm 12L MCLP package

## 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: Vd = 8.00V , Iadj connection = 0.2V, Id = 77mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
400	20.94	27.68	13.54	12.38	1.27	0.74	36.86	27.00	3.32
600	20.99	27.49	15.27	15.97	1.27	0.78	36.45	27.20	3.27
800	20.88	27.46	15.95	18.89	1.28	0.80	35.70	27.38	3.25
1000	20.75	27.44	16.01	20.94	1.29	0.82	35.45	27.67	3.29
1200	20.60	27.40	15.84	21.76	1.30	0.83	35.29	27.79	3.24
1400	20.43	27.36	15.62	21.25	1.31	0.84	35.41	28.03	3.10
1600	20.28	27.34	15.42	20.28	1.32	0.85	35.48	27.99	3.14
1800	20.11	27.36	15.33	19.26	1.33	0.86	35.07	27.89	3.10
2000	20.01	27.29	15.26	18.51	1.34	0.86	34.98	28.00	3.10
2200	19.88	27.30	14.99	17.84	1.35	0.87	34.76	27.78	3.00
2400	19.70	27.34	14.52	17.08	1.37	0.88	34.56	27.88	2.90
2600	19.47	27.46	13.94	16.37	1.40	0.89	34.45	27.57	3.08
2800	19.18	27.60	13.32	16.10	1.44	0.91	34.66	27.51	3.14
3000	18.87	27.76	12.31	15.32	1.47	0.94	35.34	27.33	3.14
3200	18.68	27.75	11.35	14.65	1.45	0.96	36.17	27.34	3.12
3400	18.48	27.77	10.31	13.63	1.43	0.98	36.94	27.11	3.05
3600	18.26	27.84	9.35	12.45	1.42	0.99	37.33	26.93	3.06
3800	18.05	27.95	8.43	11.17	1.41	0.99	37.80	26.97	3.08
4000	17.89	28.04	7.64	10.02	1.40	0.98	38.38	26.11	3.13
4200	17.79	28.07	7.00	9.10	1.39	0.96	37.88	25.35	3.00
4400	17.72	28.04	6.52	8.46	1.38	0.94	37.53	25.22	2.93
4600	17.71	27.90	6.30	8.20	1.38	0.92	36.44	23.95	2.95
4800	17.75	27.63	6.33	8.30	1.37	0.91	34.91	25.45	2.87
5000	17.88	27.35	6.58	8.73	1.37	0.90	35.29	23.55	2.83
5200	18.09	26.99	7.11	9.65	1.36	0.89	33.67	24.64	2.72
5400	18.35	26.62	7.83	10.97	1.33	0.89	32.94	26.00	2.65
5600	18.59	26.32	8.59	13.26	1.32	0.90	32.88	26.33	2.65
5800	18.72	25.99	9.29	16.88	1.30	0.92	33.24	26.41	2.69
6000	18.69	25.88	9.41	22.67	1.30	0.95	34.06	26.47	2.67
6200	18.61	25.86	8.96	28.59	1.30	0.98	35.34	26.27	2.78
6400	18.52	26.06	8.08	22.80	1.29	1.03	36.91	26.04	2.75
6600	18.49	26.24	7.38	19.99	1.28	1.07	38.03	25.94	2.82
6800	18.43	26.42	6.89	18.73	1.27	1.11	38.27	25.74	2.87
7000	18.27	26.62	6.58	18.52	1.29	1.13	39.68	25.59	2.95
7200	17.96	26.88	6.42	17.66	1.34	1.14	40.55	25.50	2.96
7400	17.84	26.94	6.59	16.90	1.37	1.13	38.65	25.41	2.87
7600	17.64	26.98	6.84	17.06	1.42	1.10	38.95	25.74	2.96
7800	17.59	26.76	7.12	17.82	1.43	1.08	39.36	25.70	2.82
8000	17.52	26.75	7.93	22.15	1.51	1.06	39.76	25.74	2.93

Note: Test data of Die packaged in industry standard 3x3mm 12L MCLP package

## 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: Vd = 8.00V, Iadj connection = 0.4V, Id = 87mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
400	21.31	28.09	13.55	11.80	1.27	0.74	37.93	26.98	3.25
600	21.35	27.93	15.29	14.64	1.27	0.77	37.45	27.16	3.21
800	21.24	27.89	16.03	16.79	1.28	0.79	36.69	27.31	3.27
1000	21.12	27.85	16.18	18.36	1.29	0.81	36.45	27.59	3.24
1200	20.98	27.82	16.09	19.36	1.30	0.83	36.34	27.73	3.13
1400	20.81	27.78	15.90	19.56	1.31	0.84	36.53	27.90	3.11
1600	20.66	27.76	15.70	19.16	1.32	0.84	36.57	27.85	3.12
1800	20.49	27.75	15.54	18.51	1.33	0.85	36.18	27.76	3.09
2000	20.39	27.69	15.40	17.82	1.34	0.85	36.08	27.86	3.03
2200	20.25	27.68	15.02	17.17	1.35	0.86	35.88	27.65	3.01
2400	20.06	27.73	14.47	16.48	1.37	0.87	35.70	27.76	3.00
2600	19.83	27.86	13.85	15.84	1.40	0.89	35.48	27.43	3.04
2800	19.55	28.03	13.25	15.72	1.45	0.91	35.80	27.35	3.06
3000	19.24	28.15	12.28	15.22	1.47	0.94	36.67	27.09	3.07
3200	19.06	28.10	11.38	14.82	1.45	0.96	37.71	26.96	3.11
3400	18.86	28.11	10.41	14.10	1.43	0.98	39.19	26.76	3.10
3600	18.66	28.17	9.50	13.09	1.42	0.99	40.41	26.50	3.02
3800	18.47	28.26	8.62	11.87	1.41	1.00	40.13	26.33	3.09
4000	18.31	28.32	7.84	10.69	1.41	0.99	39.42	25.48	3.05
4200	18.23	28.31	7.20	9.72	1.39	0.98	38.03	24.70	2.96
4400	18.16	28.28	6.72	9.01	1.39	0.96	37.14	24.74	2.91
4600	18.14	28.15	6.50	8.72	1.38	0.94	35.55	23.28	2.90
4800	18.18	27.88	6.53	8.81	1.38	0.92	34.39	24.96	2.79
5000	18.29	27.58	6.80	9.26	1.37	0.91	34.35	23.01	2.74
5200	18.47	27.27	7.36	10.24	1.37	0.90	32.99	24.33	2.69
5400	18.71	26.91	8.10	11.66	1.35	0.90	32.60	25.83	2.60
5600	18.91	26.60	8.86	14.15	1.33	0.91	32.66	26.23	2.57
5800	19.01	26.33	9.53	18.26	1.32	0.92	33.09	26.36	2.60
6000	18.95	26.24	9.54	25.73	1.32	0.95	34.09	26.41	2.63
6200	18.84	26.24	8.99	31.45	1.32	0.98	35.33	26.25	2.72
6400	18.75	26.42	8.07	22.57	1.31	1.03	36.81	26.02	2.76
6600	18.71	26.60	7.36	19.81	1.30	1.07	37.76	25.91	2.72
6800	18.66	26.79	6.88	18.84	1.29	1.11	37.98	25.70	2.87
7000	18.50	27.00	6.59	19.16	1.31	1.13	38.69	25.50	2.93
7200	18.20	27.25	6.46	18.82	1.36	1.15	38.97	25.40	2.95
7400	18.08	27.38	6.67	18.13	1.41	1.13	38.03	25.34	2.88
7600	17.87	27.38	6.97	18.43	1.46	1.11	38.16	25.64	2.88
7800	17.81	27.16	7.28	19.28	1.47	1.08	38.27	25.64	2.83
8000	17.72	27.16	8.08	24.13	1.55	1.06	38.39	25.70	2.88

Note: Test data of Die packaged in industry standard 3x3mm 12L MCLP package

## 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: Vd = 8.00V, Iadj connection = 0.6V, Id = 97mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
400	21.56	28.37	13.54	11.35	1.27	0.73	38.51	26.95	3.25
600	21.60	28.30	15.26	13.78	1.28	0.76	38.05	27.15	3.17
800	21.50	28.22	16.03	15.55	1.28	0.79	37.34	27.26	3.21
1000	21.38	28.19	16.23	16.89	1.29	0.81	37.14	27.54	3.21
1200	21.24	28.13	16.21	17.88	1.30	0.82	37.06	27.66	3.14
1400	21.08	28.07	16.05	18.31	1.31	0.83	37.31	27.81	3.06
1600	20.93	28.08	15.84	18.17	1.32	0.84	37.48	27.77	3.05
1800	20.76	28.05	15.65	17.74	1.33	0.85	37.08	27.68	3.07
2000	20.65	27.99	15.43	17.13	1.34	0.85	36.98	27.80	3.08
2200	20.51	27.98	14.99	16.53	1.35	0.86	36.67	27.59	2.97
2400	20.32	28.03	14.39	15.93	1.37	0.87	36.52	27.67	2.87
2600	20.08	28.13	13.75	15.35	1.40	0.89	36.34	27.34	3.01
2800	19.80	28.32	13.16	15.31	1.45	0.91	36.91	27.22	3.05
3000	19.50	28.44	12.24	15.00	1.47	0.93	37.84	26.99	3.07
3200	19.32	28.40	11.38	14.81	1.46	0.96	38.97	26.76	3.01
3400	19.13	28.35	10.46	14.36	1.43	0.98	41.15	26.53	3.04
3600	18.94	28.39	9.60	13.52	1.42	1.00	41.33	26.18	2.97
3800	18.75	28.44	8.74	12.39	1.41	1.00	39.77	26.09	3.00
4000	18.61	28.50	7.98	11.20	1.41	1.00	38.39	25.27	3.06
4200	18.53	28.50	7.34	10.18	1.40	0.98	36.91	24.53	2.90
4400	18.46	28.45	6.87	9.44	1.39	0.97	36.08	24.50	2.88
4600	18.44	28.28	6.64	9.13	1.38	0.95	34.70	23.18	2.80
4800	18.47	28.05	6.69	9.20	1.38	0.93	33.93	24.75	2.80
5000	18.57	27.75	6.97	9.66	1.38	0.92	33.75	23.16	2.68
5200	18.73	27.44	7.54	10.68	1.37	0.91	32.68	24.22	2.63
5400	18.95	27.14	8.30	12.17	1.36	0.90	32.47	25.73	2.57
5600	19.13	26.79	9.05	14.81	1.33	0.91	32.60	26.16	2.52
5800	19.20	26.58	9.67	19.27	1.33	0.92	33.11	26.35	2.52
6000	19.12	26.46	9.62	28.55	1.33	0.95	34.13	26.39	2.61
6200	19.00	26.48	9.01	30.47	1.33	0.98	35.56	26.24	2.72
6400	18.90	26.70	8.05	21.92	1.33	1.03	36.90	25.98	2.76
6600	18.86	26.89	7.34	19.45	1.32	1.07	37.91	25.90	2.73
6800	18.81	27.08	6.87	18.71	1.31	1.11	38.09	25.69	2.90
7000	18.66	27.32	6.60	19.43	1.34	1.14	38.41	25.48	2.87
7200	18.36	27.55	6.48	19.59	1.39	1.15	38.38	25.42	2.93
7400	18.25	27.63	6.73	19.05	1.43	1.13	37.81	25.33	2.89
7600	18.04	27.67	7.05	19.50	1.49	1.11	37.77	25.63	2.88
7800	17.97	27.40	7.38	20.44	1.49	1.08	37.75	25.66	2.86
8000	17.86	27.44	8.18	25.77	1.58	1.06	37.84	25.77	2.87

Note: Test data of Die packaged in industry standard 3x3mm 12L MCLP package

## 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: Vd = 8.00V, Iadj connection = 0.8V, Id = 106mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
400	21.75	28.63	13.53	11.03	1.27	0.72	38.69	26.96	3.19
600	21.78	28.51	15.19	13.20	1.28	0.76	38.31	27.14	3.13
800	21.69	28.47	16.00	14.76	1.29	0.78	37.70	27.29	3.14
1000	21.57	28.41	16.24	15.97	1.29	0.80	37.54	27.54	3.15
1200	21.43	28.37	16.26	16.95	1.30	0.82	37.46	27.61	3.13
1400	21.28	28.33	16.12	17.45	1.31	0.83	37.77	27.80	3.03
1600	21.13	28.30	15.91	17.45	1.32	0.84	37.98	27.73	3.03
1800	20.95	28.30	15.69	17.15	1.34	0.85	37.64	27.64	2.96
2000	20.84	28.22	15.44	16.59	1.34	0.85	37.56	27.74	2.88
2200	20.69	28.20	14.95	16.04	1.36	0.86	37.19	27.53	2.96
2400	20.50	28.28	14.32	15.51	1.38	0.87	37.06	27.63	3.04
2600	20.26	28.38	13.65	14.97	1.41	0.88	36.97	27.32	3.00
2800	19.98	28.50	13.09	14.99	1.45	0.90	37.53	27.17	3.00
3000	19.68	28.62	12.19	14.77	1.47	0.93	38.77	26.93	3.08
3200	19.51	28.53	11.37	14.73	1.45	0.95	39.90	26.67	3.01
3400	19.32	28.56	10.49	14.47	1.44	0.98	42.30	26.52	3.03
3600	19.14	28.56	9.66	13.80	1.42	1.00	40.57	26.05	2.93
3800	18.96	28.62	8.83	12.75	1.42	1.01	38.89	26.01	2.99
4000	18.82	28.68	8.08	11.57	1.41	1.01	37.57	25.17	2.99
4200	18.74	28.65	7.45	10.53	1.40	0.99	36.17	24.51	2.91
4400	18.67	28.55	6.97	9.75	1.39	0.97	35.35	24.53	2.84
4600	18.65	28.44	6.75	9.42	1.39	0.95	34.22	23.32	2.77
4800	18.67	28.20	6.80	9.48	1.39	0.94	33.65	24.77	2.73
5000	18.77	27.87	7.09	9.95	1.38	0.92	33.38	23.45	2.67
5200	18.92	27.58	7.67	11.00	1.38	0.91	32.45	24.38	2.62
5400	19.13	27.25	8.44	12.54	1.36	0.90	32.45	25.73	2.57
5600	19.29	26.99	9.19	15.29	1.35	0.91	32.65	26.11	2.50
5800	19.34	26.77	9.79	20.03	1.34	0.92	33.33	26.34	2.54
6000	19.24	26.70	9.67	30.82	1.35	0.95	34.46	26.36	2.55
6200	19.11	26.68	9.02	28.79	1.35	0.99	36.00	26.22	2.72
6400	19.01	26.91	8.04	21.32	1.34	1.03	37.33	26.00	2.74
6600	18.97	27.07	7.32	19.08	1.33	1.07	38.27	25.94	2.80
6800	18.92	27.28	6.86	18.51	1.33	1.11	38.36	25.70	2.86
7000	18.77	27.49	6.60	19.49	1.35	1.14	38.45	25.55	2.84
7200	18.47	27.80	6.50	20.11	1.41	1.15	38.26	25.47	2.94
7400	18.37	27.87	6.76	19.71	1.45	1.14	37.83	25.39	2.88
7600	18.16	27.87	7.11	20.33	1.51	1.11	37.72	25.69	2.86
7800	18.08	27.63	7.45	21.37	1.51	1.09	37.60	25.74	2.78
8000	17.95	27.63	8.24	26.94	1.60	1.06	37.66	25.75	2.82

Note: Test data of Die packaged in industry standard 3x3mm 12L MCLP package

## 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: Vd = 8.00V, Iadj connection = 1.0V, Id = 116mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
400	21.90	28.90	13.49	10.79	1.28	0.72	38.68	26.97	3.23
600	21.93	28.72	15.15	12.78	1.28	0.76	38.37	27.16	3.16
800	21.83	28.65	15.95	14.22	1.29	0.78	37.89	27.31	3.16
1000	21.72	28.61	16.23	15.35	1.30	0.80	37.74	27.53	3.19
1200	21.58	28.55	16.28	16.29	1.30	0.81	37.67	27.64	3.12
1400	21.42	28.51	16.17	16.83	1.31	0.83	38.00	27.78	3.00
1600	21.27	28.52	15.95	16.91	1.33	0.84	38.24	27.72	3.04
1800	21.10	28.47	15.71	16.70	1.34	0.85	37.97	27.63	2.97
2000	20.99	28.40	15.42	16.18	1.35	0.85	37.89	27.72	3.01
2200	20.84	28.40	14.90	15.66	1.36	0.85	37.49	27.51	3.01
2400	20.64	28.46	14.25	15.18	1.38	0.87	37.41	27.60	2.71
2600	20.40	28.53	13.58	14.68	1.41	0.88	37.33	27.29	2.99
2800	20.12	28.69	13.02	14.72	1.45	0.90	37.97	27.14	3.10
3000	19.82	28.80	12.15	14.59	1.48	0.93	39.35	26.90	3.02
3200	19.65	28.71	11.35	14.64	1.46	0.95	40.61	26.64	3.02
3400	19.47	28.68	10.50	14.53	1.44	0.98	42.93	26.47	3.01
3600	19.29	28.71	9.70	13.99	1.43	1.00	40.22	26.12	2.98
3800	19.12	28.74	8.90	13.02	1.42	1.01	38.56	26.00	3.00
4000	18.98	28.78	8.15	11.86	1.41	1.01	37.31	25.25	3.00
4200	18.91	28.74	7.53	10.79	1.40	0.99	36.02	24.56	2.89
4400	18.84	28.70	7.06	9.99	1.40	0.98	35.05	24.55	2.81
4600	18.81	28.53	6.83	9.64	1.39	0.96	34.00	23.53	2.85
4800	18.83	28.30	6.88	9.71	1.39	0.94	33.48	24.82	2.74
5000	18.92	27.96	7.18	10.17	1.38	0.92	33.48	23.75	2.69
5200	19.06	27.67	7.77	11.25	1.38	0.91	32.45	24.52	2.65
5400	19.26	27.35	8.54	12.82	1.36	0.91	32.58	25.78	2.60
5600	19.41	27.12	9.29	15.66	1.35	0.91	32.85	26.10	2.54
5800	19.45	26.85	9.86	20.58	1.34	0.92	33.65	26.36	2.47
6000	19.33	26.80	9.70	32.48	1.35	0.95	34.88	26.38	2.57
6200	19.20	26.82	9.02	27.41	1.35	0.98	36.48	26.24	2.68
6400	19.09	27.04	8.03	20.84	1.35	1.03	37.81	26.02	2.72
6600	19.05	27.22	7.30	18.75	1.34	1.07	38.70	25.92	2.80
6800	19.00	27.42	6.84	18.28	1.33	1.11	38.65	25.75	2.84
7000	18.85	27.64	6.60	19.45	1.36	1.14	38.53	25.59	2.84
7200	18.56	27.90	6.51	20.44	1.42	1.15	38.23	25.51	3.00
7400	18.46	28.03	6.79	20.22	1.46	1.14	37.95	25.47	2.85
7600	18.25	27.97	7.16	21.06	1.51	1.11	37.79	25.76	2.87
7800	18.17	27.77	7.51	22.17	1.53	1.09	37.58	25.81	2.90
8000	18.03	27.79	8.29	27.91	1.61	1.06	37.62	25.81	2.94

Note: Test data of Die packaged in industry standard 3x3mm 12L MCLP package

## 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: Vd = 8.00V, Iadj connection = 1.2V, Id = 125mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
400	22.01	28.96	13.46	10.61	1.27	0.72	38.60	27.03	3.23
600	22.04	28.87	15.10	12.47	1.28	0.75	38.39	27.20	3.14
800	21.94	28.80	15.92	13.82	1.29	0.78	38.00	27.35	3.15
1000	21.83	28.75	16.21	14.90	1.30	0.80	37.88	27.57	3.24
1200	21.69	28.71	16.29	15.82	1.31	0.81	37.80	27.63	3.12
1400	21.54	28.64	16.19	16.39	1.31	0.82	38.09	27.75	3.02
1600	21.39	28.65	15.97	16.50	1.33	0.84	38.34	27.72	3.03
1800	21.21	28.65	15.71	16.35	1.35	0.85	38.17	27.64	3.02
2000	21.10	28.57	15.40	15.87	1.35	0.85	38.03	27.72	2.92
2200	20.95	28.56	14.86	15.37	1.36	0.85	37.61	27.55	2.99
2400	20.75	28.58	14.20	14.91	1.38	0.86	37.52	27.60	2.80
2600	20.51	28.72	13.51	14.44	1.42	0.88	37.47	27.27	3.00
2800	20.23	28.83	12.97	14.51	1.46	0.90	38.11	27.15	3.03
3000	19.93	28.91	12.10	14.43	1.48	0.93	39.54	26.88	3.08
3200	19.76	28.83	11.33	14.54	1.46	0.95	40.91	26.69	3.02
3400	19.58	28.83	10.51	14.54	1.44	0.98	43.58	26.56	2.97
3600	19.41	28.82	9.73	14.12	1.43	1.00	40.64	26.23	3.03
3800	19.24	28.85	8.94	13.22	1.42	1.01	38.19	26.07	2.96
4000	19.11	28.87	8.22	12.08	1.42	1.01	37.10	25.37	2.98
4200	19.03	28.87	7.59	11.00	1.41	1.00	36.03	24.73	2.90
4400	18.97	28.71	7.12	10.18	1.39	0.98	34.88	24.71	2.91
4600	18.94	28.63	6.90	9.83	1.40	0.96	33.90	23.75	2.82
4800	18.95	28.37	6.96	9.89	1.40	0.94	33.56	24.93	2.72
5000	19.03	28.07	7.26	10.36	1.39	0.93	33.41	23.96	2.70
5200	19.17	27.77	7.85	11.45	1.39	0.92	32.63	24.64	2.60
5400	19.37	27.48	8.62	13.04	1.37	0.91	32.76	25.79	2.58
5600	19.51	27.20	9.37	15.94	1.35	0.91	33.09	26.07	2.53
5800	19.53	26.98	9.92	20.99	1.35	0.92	34.01	26.35	2.58
6000	19.41	26.90	9.73	33.43	1.35	0.95	35.35	26.37	2.56
6200	19.27	26.90	9.02	26.39	1.35	0.98	36.92	26.23	2.75
6400	19.16	27.15	8.02	20.45	1.35	1.03	38.09	26.05	2.82
6600	19.12	27.35	7.28	18.48	1.34	1.07	39.00	25.95	2.78
6800	19.07	27.54	6.83	18.09	1.34	1.11	38.92	25.77	2.86
7000	18.92	27.78	6.60	19.37	1.37	1.14	38.67	25.65	2.91
7200	18.64	28.03	6.52	20.68	1.43	1.15	38.34	25.60	2.92
7400	18.54	28.10	6.80	20.57	1.46	1.14	38.08	25.57	2.89
7600	18.33	28.10	7.18	21.63	1.52	1.11	37.85	25.82	2.86
7800	18.24	27.87	7.55	22.80	1.53	1.09	37.61	25.82	2.83
8000	18.10	27.88	8.32	28.70	1.62	1.06	37.55	25.86	2.89

Note: Test data of Die packaged in industry standard 3x3mm 12L MCLP package



## 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: Vd = 8.00V, Iadj connection = 1.4V, Id = 134mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
400	22.10	29.13	13.44	10.48	1.27	0.72	38.52	27.09	3.24
600	22.12	28.98	15.07	12.25	1.28	0.75	38.39	27.22	3.20
800	22.02	28.92	15.88	13.54	1.29	0.77	38.07	27.36	3.16
1000	21.92	28.89	16.19	14.59	1.30	0.79	37.95	27.60	3.20
1200	21.78	28.85	16.29	15.49	1.31	0.81	37.84	27.68	3.13
1400	21.63	28.75	16.19	16.06	1.32	0.82	38.11	27.80	3.06
1600	21.48	28.75	15.98	16.21	1.33	0.83	38.34	27.75	3.05
1800	21.30	28.75	15.71	16.09	1.35	0.84	38.24	27.66	3.07
2000	21.19	28.64	15.37	15.63	1.35	0.84	38.17	27.75	2.99
2200	21.03	28.66	14.82	15.16	1.36	0.85	37.64	27.53	2.96
2400	20.84	28.70	14.15	14.72	1.38	0.86	37.58	27.61	2.93
2600	20.59	28.80	13.46	14.27	1.42	0.88	37.53	27.31	3.06
2800	20.31	28.90	12.92	14.35	1.45	0.90	38.13	27.15	3.04
3000	20.01	29.02	12.07	14.30	1.48	0.93	39.48	26.94	3.00
3200	19.84	28.95	11.32	14.47	1.46	0.95	40.87	26.77	3.05
3400	19.67	28.92	10.52	14.54	1.44	0.98	43.62	26.68	3.04
3600	19.50	28.90	9.75	14.19	1.43	1.00	40.98	26.36	2.96
3800	19.33	28.95	8.98	13.37	1.43	1.01	38.24	26.21	2.98
4000	19.20	28.97	8.26	12.24	1.42	1.01	37.34	25.60	2.99
4200	19.13	28.92	7.64	11.16	1.41	1.00	36.16	24.92	2.92
4400	19.06	28.84	7.17	10.34	1.40	0.98	34.98	24.90	2.87
4600	19.03	28.67	6.95	9.96	1.40	0.96	34.02	23.95	2.75
4800	19.05	28.40	7.02	10.02	1.40	0.94	33.65	25.11	2.79
5000	19.12	28.12	7.32	10.50	1.39	0.93	33.53	24.20	2.71
5200	19.26	27.82	7.92	11.60	1.39	0.92	32.81	24.86	2.61
5400	19.45	27.56	8.69	13.20	1.37	0.91	33.08	25.83	2.56
5600	19.58	27.26	9.43	16.13	1.36	0.91	33.42	26.11	2.58
5800	19.60	27.04	9.95	21.30	1.35	0.92	34.47	26.38	2.61
6000	19.47	26.94	9.74	33.87	1.35	0.95	35.81	26.37	2.58
6200	19.33	27.00	9.01	25.70	1.36	0.98	37.27	26.24	2.70
6400	19.21	27.21	8.00	20.12	1.35	1.03	38.39	26.08	2.76
6600	19.17	27.45	7.27	18.27	1.35	1.07	39.27	25.98	2.81
6800	19.12	27.65	6.83	17.93	1.35	1.10	39.11	25.81	2.87
7000	18.97	27.86	6.61	19.29	1.37	1.13	38.83	25.70	2.95
7200	18.69	28.12	6.53	20.82	1.43	1.15	38.48	25.66	2.90
7400	18.60	28.23	6.82	20.83	1.48	1.14	38.22	25.62	2.91
7600	18.40	28.18	7.19	22.00	1.53	1.11	37.95	25.86	2.88
7800	18.31	27.95	7.56	23.25	1.54	1.09	37.66	25.87	2.81
8000	18.15	27.97	8.34	29.35	1.63	1.06	37.59	25.89	2.87

Note: Test data of Die packaged in industry standard 3x3mm 12L MCLP package

## 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: Vd = 8.00V, Iadj connection = 1.6V, Id = 142mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
400	22.16	29.27	13.42	10.38	1.28	0.72	38.47	27.10	3.22
600	22.19	29.07	15.03	12.10	1.28	0.75	38.41	27.27	3.19
800	22.09	29.00	15.85	13.35	1.29	0.77	38.14	27.41	3.15
1000	21.99	28.98	16.17	14.37	1.30	0.79	38.01	27.63	3.26
1200	21.85	28.91	16.27	15.26	1.31	0.81	37.87	27.68	3.17
1400	21.70	28.86	16.19	15.84	1.32	0.82	38.09	27.85	3.06
1600	21.55	28.83	15.98	15.99	1.33	0.83	38.31	27.80	2.99
1800	21.37	28.82	15.70	15.91	1.35	0.84	38.25	27.71	2.99
2000	21.26	28.76	15.36	15.46	1.35	0.84	38.14	27.79	3.04
2200	21.10	28.73	14.79	15.00	1.36	0.85	37.66	27.56	2.94
2400	20.90	28.78	14.11	14.58	1.39	0.86	37.58	27.62	2.84
2600	20.66	28.89	13.42	14.14	1.42	0.88	37.55	27.32	3.00
2800	20.38	29.02	12.88	14.23	1.46	0.90	38.08	27.16	3.04
3000	20.08	29.14	12.04	14.20	1.49	0.93	39.30	26.99	3.06
3200	19.91	29.04	11.30	14.39	1.47	0.95	40.58	26.84	3.06
3400	19.73	28.97	10.52	14.52	1.44	0.98	43.00	26.76	3.01
3600	19.56	28.98	9.77	14.25	1.43	1.00	41.97	26.48	2.99
3800	19.40	29.00	9.01	13.47	1.43	1.01	38.55	26.34	2.99
4000	19.27	29.00	8.29	12.36	1.42	1.01	37.50	25.78	2.99
4200	19.21	28.98	7.68	11.28	1.41	1.00	36.50	25.06	2.91
4400	19.14	28.88	7.21	10.45	1.40	0.98	35.15	25.12	2.88
4600	19.11	28.70	7.00	10.07	1.40	0.96	34.14	24.18	2.82
4800	19.12	28.50	7.07	10.14	1.40	0.95	33.93	25.24	2.78
5000	19.19	28.16	7.38	10.61	1.39	0.93	33.74	24.43	2.74
5200	19.33	27.90	7.97	11.71	1.39	0.92	33.06	24.98	2.65
5400	19.51	27.59	8.75	13.33	1.37	0.91	33.41	25.91	2.57
5600	19.64	27.32	9.48	16.28	1.36	0.91	33.85	26.12	2.56
5800	19.65	27.14	9.98	21.51	1.36	0.93	34.94	26.38	2.56
6000	19.51	27.01	9.74	33.98	1.36	0.95	36.21	26.37	2.61
6200	19.37	27.06	9.00	25.19	1.36	0.98	37.58	26.25	2.72
6400	19.25	27.29	7.98	19.86	1.36	1.03	38.66	26.07	2.74
6600	19.22	27.52	7.26	18.06	1.35	1.07	39.47	26.00	2.80
6800	19.16	27.71	6.82	17.77	1.35	1.10	39.29	25.85	2.89
7000	19.02	27.93	6.62	19.20	1.38	1.13	39.00	25.75	2.93
7200	18.73	28.18	6.54	20.92	1.44	1.15	38.59	25.71	2.96
7400	18.65	28.28	6.84	21.02	1.48	1.14	38.35	25.71	2.92
7600	18.45	28.23	7.22	22.31	1.53	1.11	38.05	25.90	2.90
7800	18.36	28.03	7.58	23.61	1.54	1.09	37.73	25.92	2.83
8000	18.20	28.04	8.35	29.89	1.63	1.06	37.64	25.92	2.88

Note: Test data of Die packaged in industry standard 3x3mm 12L MCLP package

## 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: Vd = 8.00V, Iadj connection = 1.8V, Id = 150mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
400	22.22	29.31	13.40	10.31	1.28	0.72	38.45	27.15	3.26
600	22.24	29.16	15.00	11.97	1.28	0.75	38.46	27.32	3.21
800	22.14	29.07	15.83	13.20	1.29	0.77	38.22	27.46	3.19
1000	22.04	29.04	16.16	14.20	1.30	0.79	38.07	27.65	3.27
1200	21.91	28.99	16.27	15.09	1.31	0.81	37.94	27.73	3.20
1400	21.75	28.94	16.20	15.66	1.32	0.82	38.11	27.89	3.06
1600	21.60	28.90	15.98	15.84	1.33	0.83	38.34	27.84	3.04
1800	21.43	28.91	15.69	15.76	1.35	0.84	38.29	27.73	2.99
2000	21.31	28.83	15.33	15.33	1.35	0.84	38.16	27.80	2.95
2200	21.15	28.81	14.76	14.88	1.37	0.85	37.69	27.60	3.01
2400	20.95	28.86	14.07	14.46	1.39	0.86	37.63	27.63	3.07
2600	20.71	28.94	13.38	14.04	1.42	0.88	37.60	27.33	3.03
2800	20.43	29.07	12.84	14.13	1.46	0.90	37.98	27.20	3.08
3000	20.13	29.19	12.02	14.12	1.48	0.93	39.19	27.02	3.08
3200	19.96	29.10	11.28	14.33	1.47	0.95	40.17	26.94	3.04
3400	19.79	29.05	10.51	14.50	1.45	0.98	42.37	26.86	3.01
3600	19.62	29.05	9.77	14.28	1.44	1.00	43.18	26.64	2.99
3800	19.46	29.04	9.03	13.55	1.42	1.01	39.02	26.53	3.02
4000	19.33	29.10	8.32	12.45	1.43	1.02	38.22	25.96	3.02
4200	19.27	29.01	7.71	11.38	1.41	1.00	36.95	25.31	3.00
4400	19.20	28.92	7.25	10.53	1.40	0.98	35.40	25.34	2.86
4600	19.17	28.74	7.04	10.15	1.40	0.96	34.42	24.40	2.77
4800	19.18	28.55	7.10	10.21	1.40	0.95	34.28	25.36	2.77
5000	19.25	28.22	7.41	10.69	1.40	0.93	34.13	24.64	2.70
5200	19.38	27.94	8.01	11.80	1.39	0.92	33.27	25.18	2.56
5400	19.57	27.63	8.79	13.42	1.37	0.91	33.77	25.96	2.58
5600	19.70	27.39	9.51	16.40	1.36	0.91	34.41	26.11	2.59
5800	19.70	27.13	10.01	21.70	1.35	0.92	35.41	26.40	2.58
6000	19.55	27.08	9.75	34.11	1.36	0.95	36.44	26.38	2.53
6200	19.41	27.11	8.99	24.83	1.36	0.98	37.79	26.25	2.71
6400	19.29	27.34	7.98	19.69	1.36	1.03	38.80	26.08	2.77
6600	19.26	27.54	7.25	17.92	1.35	1.07	39.63	26.00	2.90
6800	19.21	27.78	6.81	17.62	1.35	1.10	39.39	25.86	2.92
7000	19.06	28.00	6.61	19.06	1.38	1.13	39.12	25.79	2.95
7200	18.78	28.20	6.54	20.88	1.43	1.15	38.70	25.75	2.98
7400	18.69	28.31	6.84	21.12	1.48	1.14	38.48	25.76	2.89
7600	18.49	28.28	7.23	22.60	1.53	1.11	38.03	25.93	2.98
7800	18.41	28.06	7.60	24.05	1.54	1.09	37.77	25.95	2.86
8000	18.24	28.10	8.37	30.40	1.64	1.06	37.68	25.95	2.91

Note: Test data of Die packaged in industry standard 3x3mm 12L MCLP package

## 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: Vd = 8.00V, Iadj connection = 2.0V, Id = 158mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
400	22.27	29.32	13.38	10.25	1.27	0.71	38.49	27.22	3.29
600	22.29	29.20	14.98	11.90	1.28	0.75	38.52	27.37	3.16
800	22.19	29.15	15.80	13.09	1.29	0.77	38.30	27.51	3.18
1000	22.08	29.10	16.14	14.08	1.30	0.79	38.16	27.69	3.11
1200	21.95	29.05	16.26	14.96	1.31	0.81	38.02	27.77	3.18
1400	21.80	29.02	16.18	15.55	1.32	0.82	38.14	27.93	3.10
1600	21.65	28.97	15.97	15.73	1.33	0.83	38.41	27.88	3.06
1800	21.47	28.96	15.68	15.66	1.35	0.84	38.36	27.75	3.05
2000	21.36	28.88	15.31	15.23	1.35	0.84	38.25	27.84	2.99
2200	21.20	28.86	14.73	14.80	1.37	0.85	37.76	27.63	3.03
2400	21.00	28.92	14.03	14.38	1.39	0.86	37.68	27.66	3.08
2600	20.75	29.00	13.35	13.96	1.42	0.88	37.67	27.36	3.06
2800	20.47	29.12	12.81	14.06	1.46	0.90	38.03	27.22	3.09
3000	20.17	29.27	11.99	14.05	1.49	0.93	38.95	27.10	3.05
3200	20.00	29.14	11.26	14.27	1.46	0.95	40.03	27.03	3.03
3400	19.83	29.11	10.50	14.47	1.45	0.98	41.91	26.99	3.04
3600	19.66	29.11	9.78	14.28	1.44	1.00	44.66	26.75	3.00
3800	19.50	29.08	9.04	13.59	1.42	1.01	39.59	26.72	3.03
4000	19.38	29.07	8.34	12.52	1.42	1.01	38.73	26.19	3.04
4200	19.32	29.05	7.74	11.44	1.41	1.00	37.41	25.47	2.95
4400	19.25	28.94	7.28	10.59	1.40	0.98	35.73	25.54	2.85
4600	19.22	28.80	7.07	10.22	1.40	0.97	34.72	24.60	2.85
4800	19.22	28.53	7.14	10.27	1.40	0.95	34.64	25.51	2.82
5000	19.29	28.23	7.45	10.75	1.39	0.93	34.38	24.83	2.73
5200	19.43	27.95	8.06	11.87	1.39	0.92	33.56	25.24	2.61
5400	19.61	27.68	8.82	13.50	1.38	0.91	34.23	26.00	2.58
5600	19.74	27.44	9.54	16.50	1.36	0.91	34.81	26.11	2.57
5800	19.74	27.18	10.03	21.85	1.35	0.92	35.77	26.39	2.62
6000	19.59	27.12	9.76	34.05	1.36	0.95	36.73	26.37	2.60
6200	19.44	27.12	9.00	24.57	1.36	0.98	37.98	26.24	2.77
6400	19.33	27.39	7.97	19.51	1.36	1.03	38.90	26.10	2.79
6600	19.29	27.57	7.24	17.78	1.35	1.07	39.55	26.02	2.82
6800	19.24	27.83	6.81	17.51	1.35	1.10	39.52	25.87	2.89
7000	19.09	28.04	6.60	18.94	1.38	1.13	39.16	25.82	2.96
7200	18.82	28.30	6.54	20.86	1.44	1.15	38.79	25.79	3.03
7400	18.73	28.37	6.85	21.18	1.48	1.14	38.58	25.80	2.88
7600	18.54	28.35	7.25	22.80	1.54	1.11	38.11	25.95	2.94
7800	18.45	28.08	7.62	24.34	1.54	1.09	37.74	25.97	2.84
8000	18.28	28.16	8.39	30.95	1.64	1.06	37.71	25.95	2.87

Note: Test data of Die packaged in industry standard 3x3mm 12L MCLP package