Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:
Input Return Loss = -S11 (dB)
Gain(Power Gain) = S21 (dB)
Reverse Isolation = -S12 (dB)
Output Return Loss = -S22 (dB)

TEST CONDITIONS: Vd = 5.00V, Id1 (A1) = 63.62 mA and Id2 (A2) =64.19 mA @ Temperature = +25degC

FREQ	A1	A2	A1 & A2		A1							
	Gain		Amp Unbal	Phase Unbal	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(Deg)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
10	20.03	20.04	0.01	0.01	23.33	3.00	4.37	0.42	0.69	--	20.37	--
20	17.93	17.95	0.02	0.05	20.15	6.43	7.71	0.68	0.61	36.92	21.06	1.43
30	16.69	16.70	0.01	0.01	19.46	9.21	10.57	0.84	0.61	37.51	21.45	1.64
40	16.02	16.03	0.01	0.02	19.16	11.40	12.84	0.93	0.61	36.25	21.08	1.64
50	15.63	15.64	0.01	0.02	19.10	13.16	14.75	0.98	0.61	36.11	20.91	1.68
60	15.38	15.39	0.01	0.01	18.83	14.59	16.12	1.01	0.60	38.34	21.19	1.66
70	15.22	15.23	0.01	0.02	18.91	15.82	17.63	1.04	0.61	38.53	21.22	1.65
80	15.11	15.12	0.01	0.02	18.88	16.84	18.80	1.05	0.61	37.61	21.09	1.72
90	15.04	15.05	0.01	0.02	18.86	17.72	19.81	1.06	0.61	38.44	21.05	1.75
100	14.98	14.99	0.01	0.04	18.85	18.51	20.83	1.07	0.61	38.18	21.09	1.78
200	14.78	14.79	0.01	0.10	18.85	22.94	26.33	1.10	0.61	39.82	20.81	1.82
300	14.72	14.73	0.01	0.15	18.85	24.66	25.85	1.11	0.62	39.68	20.96	1.94
400	14.67	14.69	0.02	0.20	18.95	25.46	23.27	1.12	0.62	42.60	21.04	1.97
500	14.64	14.67	0.03	0.25	18.98	25.36	21.31	1.12	0.62	39.85	21.14	2.00
600	14.61	14.64	0.03	0.27	19.06	24.82	19.50	1.13	0.63	40.35	20.92	1.97
700	14.57	14.62	0.05	0.31	19.17	24.07	17.94	1.13	0.63	38.84	21.03	1.88
800	14.54	14.59	0.05	0.34	19.29	23.22	16.60	1.14	0.64	39.11	21.07	1.89
1000	14.45	14.51	0.06	0.37	19.56	21.53	14.42	1.16	0.64	36.77	20.82	1.96
1100	14.40	14.48	0.08	0.35	19.71	20.88	13.51	1.16	0.65	37.88	20.80	1.88
1200	14.34	14.44	0.10	0.32	19.88	20.38	12.66	1.17	0.65	37.64	20.81	1.85
1300	14.29	14.40	0.11	0.26	20.06	20.00	11.92	1.18	0.66	36.72	20.60	1.89
1400	14.24	14.35	0.11	0.25	20.25	19.65	11.21	1.19	0.66	37.30	20.48	1.91
1500	14.18	14.31	0.13	0.20	20.43	19.49	10.57	1.19	0.66	36.96	20.46	1.89
1600	14.15	14.28	0.13	0.07	20.67	19.56	10.05	1.20	0.67	36.59	20.50	1.81
1700	14.11	14.26	0.15	0.01	20.85	19.59	9.53	1.20	0.67	35.80	20.08	1.81
1800	14.10	14.25	0.15	0.10	21.08	19.70	9.08	1.20	0.68	35.60	20.00	1.82
1900	14.10	14.25	0.15	0.27	21.33	19.76	8.68	1.20	0.69	35.35	19.92	1.77
2000	14.11	14.27	0.16	0.35	21.63	19.51	8.30	1.20	0.70	35.07	20.06	1.72
2100	14.15	14.30	0.15	0.61	22.00	18.86	8.00	1.20	0.71	34.14	20.12	1.71
2200	14.22	14.34	0.12	0.77	22.48	17.87	7.75	1.21	0.73	34.02	20.23	1.71
2300	14.29	14.39	0.10	0.80	23.14	16.59	7.54	1.24	0.75	33.57	19.93	1.70
2400	14.37	14.44	0.07	0.88	23.91	15.21	7.38	1.28	0.78	33.50	19.86	1.61
2500	14.47	14.51	0.04	0.95	25.09	13.83	7.32	1.39	0.81	34.01	20.12	1.65
2600	14.54	14.55	0.01	1.15	26.74	12.79	7.32	1.60	0.85	33.08	19.95	1.65
2700	14.60	14.57	0.03	0.81	29.50	11.90	7.54	2.13	0.88	32.81	19.99	1.67
2800	14.61	14.55	0.06	0.66	33.68	11.42	7.81	3.43	0.91	32.72	20.12	1.71
2900	14.54	14.49	0.05	0.42	40.34	11.37	8.26	7.62	0.92	32.92	20.24	1.70
3000	14.43	14.37	0.06	0.19	35.56	11.78	8.74	4.66	0.91	33.18	20.59	1.61

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 = 4.75V, Id1 (A1) = 60 mA and Id2 (A2) = 60.51 mA @ Temperature = +25degC

FREQ	A1	A2	A1 & A2		A1							
	Gain		Amp Unbal	Phase Unbal	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(Deg)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
10	20.03	20.01	0.02	0.09	22.71	3.18	4.57	0.44	0.65	--	19.99	--
20	17.90	17.91	0.01	0.02	20.05	6.41	7.68	0.68	0.60	36.30	20.62	1.41
30	16.66	16.67	0.01	0.05	19.39	9.17	10.53	0.83	0.61	36.48	21.05	1.62
40	15.98	15.99	0.01	0.07	19.15	11.38	12.84	0.93	0.61	35.74	20.68	1.67
50	15.59	15.60	0.01	0.07	18.96	13.17	14.74	0.98	0.60	35.12	20.57	1.64
60	15.34	15.36	0.02	0.08	18.90	14.46	16.10	1.01	0.61	38.09	20.78	1.66
70	15.18	15.20	0.02	0.07	18.91	15.76	17.56	1.04	0.61	37.87	20.79	1.63
80	15.07	15.09	0.02	0.08	18.85	16.79	18.74	1.05	0.61	38.82	20.67	1.74
90	15.00	15.02	0.02	0.08	18.81	17.67	19.75	1.06	0.61	38.89	20.61	1.78
100	14.94	14.96	0.02	0.09	18.80	18.48	20.77	1.07	0.61	37.31	20.68	1.78
200	14.74	14.76	0.02	0.11	18.80	22.92	26.25	1.10	0.61	38.89	20.40	1.76
300	14.67	14.70	0.03	0.16	18.85	24.63	25.80	1.11	0.62	38.47	20.54	1.92
400	14.62	14.66	0.04	0.20	18.91	25.36	23.40	1.12	0.62	40.35	20.61	1.95
500	14.60	14.64	0.04	0.22	18.94	25.33	21.40	1.12	0.62	39.30	20.72	1.98
600	14.57	14.61	0.04	0.26	19.04	24.77	19.63	1.13	0.63	39.29	20.50	1.98
700	14.53	14.58	0.05	0.29	19.14	24.10	18.07	1.13	0.63	38.59	20.60	1.88
800	14.50	14.55	0.05	0.31	19.25	23.18	16.70	1.14	0.64	37.94	20.65	1.88
1000	14.41	14.48	0.07	0.32	19.51	21.56	14.54	1.16	0.65	35.61	20.35	1.97
1100	14.36	14.45	0.09	0.30	19.68	20.94	13.61	1.16	0.65	37.33	20.38	1.87
1200	14.31	14.41	0.10	0.27	19.84	20.44	12.76	1.17	0.65	36.76	20.38	1.88
1300	14.25	14.37	0.12	0.23	20.01	20.03	12.03	1.18	0.66	37.06	20.15	1.87
1400	14.20	14.32	0.12	0.20	20.23	19.70	11.32	1.19	0.66	36.79	20.03	1.89
1500	14.15	14.27	0.12	0.14	20.39	19.57	10.69	1.19	0.67	36.06	20.04	1.88
1600	14.11	14.25	0.14	0.02	20.60	19.65	10.16	1.20	0.67	35.98	20.07	1.81
1700	14.08	14.22	0.14	0.07	20.81	19.70	9.64	1.20	0.68	35.46	19.62	1.85
1800	14.07	14.21	0.14	0.16	21.04	19.86	9.18	1.20	0.68	35.22	19.55	1.84
1900	14.07	14.21	0.14	0.30	21.31	19.94	8.80	1.20	0.69	34.75	19.45	1.79
2000	14.08	14.23	0.15	0.38	21.61	19.73	8.42	1.20	0.70	34.65	19.61	1.70
2100	14.12	14.26	0.14	0.64	21.99	19.06	8.13	1.21	0.72	34.08	19.67	1.68
2200	14.19	14.30	0.11	0.80	22.48	18.07	7.87	1.22	0.73	33.72	19.79	1.70
2300	14.26	14.35	0.09	0.81	23.10	16.75	7.69	1.25	0.76	33.33	19.47	1.71
2400	14.34	14.40	0.06	0.88	23.94	15.39	7.53	1.30	0.78	33.20	19.40	1.61
2500	14.44	14.47	0.03	0.97	25.19	13.99	7.48	1.42	0.82	33.56	19.65	1.64
2600	14.51	14.51	0.00	1.14	26.87	12.92	7.50	1.65	0.85	32.66	19.49	1.61
2700	14.57	14.52	0.05	0.79	29.72	12.05	7.75	2.22	0.89	32.53	19.53	1.67
2800	14.57	14.51	0.06	0.64	34.19	11.53	8.05	3.70	0.91	32.23	19.69	1.64
2900	14.51	14.44	0.07	0.41	42.36	11.49	8.52	9.79	0.93	32.56	19.81	1.63
3000	14.40	14.32	0.08	0.14	35.74	11.92	9.03	4.84	0.92	32.92	20.14	1.53

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 = 5.25V, Id1 (A1) = 67.2mA and Id2 (A2) = 67.84 mA @ Temperature = +25degC

FREQ	A1	A2	A1 & A2		A1							
	Gain		Amp Unbal	Phase Unbal	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(Deg)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
10	20.09	20.10	0.01	0.06	22.98	3.14	4.48	0.44	0.66	--	20.72	--
20	17.96	17.97	0.01	0.02	20.23	6.45	7.70	0.68	0.62	36.94	21.46	1.44
30	16.72	16.73	0.01	0.09	19.44	9.23	10.53	0.83	0.60	36.32	21.83	1.65
40	16.04	16.06	0.02	0.11	19.17	11.42	12.84	0.92	0.60	36.68	21.45	1.71
50	15.65	15.67	0.02	0.11	19.03	13.21	14.74	0.98	0.60	37.08	21.27	1.67
60	15.40	15.42	0.02	0.12	18.83	14.49	16.13	1.01	0.60	38.76	21.58	1.70
70	15.24	15.26	0.02	0.11	18.90	15.85	17.60	1.04	0.61	39.59	21.61	1.66
80	15.13	15.16	0.03	0.11	18.87	16.87	18.76	1.05	0.61	38.47	21.48	1.73
90	15.06	15.09	0.03	0.12	18.87	17.74	19.79	1.06	0.61	39.95	21.44	1.79
100	15.00	15.03	0.03	0.11	18.85	18.57	20.80	1.07	0.61	39.19	21.48	1.77
200	14.80	14.83	0.03	0.15	18.83	23.09	26.17	1.10	0.61	41.18	21.16	1.78
300	14.74	14.77	0.03	0.17	18.88	24.78	25.46	1.11	0.62	42.98	21.37	1.87
400	14.69	14.73	0.04	0.21	18.94	25.56	23.01	1.12	0.62	41.94	21.43	1.95
500	14.66	14.71	0.05	0.26	19.01	25.47	21.05	1.12	0.62	42.89	21.52	2.01
600	14.63	14.68	0.05	0.28	19.07	24.96	19.26	1.13	0.63	40.62	21.28	1.96
700	14.59	14.65	0.06	0.29	19.18	24.16	17.71	1.13	0.63	40.48	21.39	1.93
800	14.56	14.62	0.06	0.29	19.30	23.18	16.37	1.14	0.63	39.60	21.45	1.87
1000	14.47	14.55	0.08	0.32	19.56	21.48	14.20	1.15	0.64	37.23	21.17	1.95
1100	14.43	14.52	0.09	0.29	19.72	20.81	13.29	1.16	0.64	38.40	21.16	1.88
1200	14.37	14.47	0.10	0.26	19.89	20.28	12.46	1.17	0.65	37.81	21.18	1.86
1300	14.32	14.43	0.11	0.21	20.06	19.89	11.72	1.17	0.65	37.16	20.96	1.88
1400	14.26	14.38	0.12	0.16	20.29	19.52	11.01	1.18	0.66	37.95	20.85	1.93
1500	14.21	14.34	0.13	0.12	20.45	19.36	10.39	1.19	0.66	37.11	20.86	1.93
1600	14.18	14.32	0.14	0.00	20.65	19.40	9.85	1.19	0.66	37.10	20.89	1.86
1700	14.14	14.29	0.15	0.08	20.86	19.37	9.34	1.19	0.67	36.06	20.48	1.84
1800	14.13	14.28	0.15	0.18	21.09	19.48	8.87	1.19	0.67	36.11	20.38	1.88
1900	14.14	14.28	0.14	0.33	21.36	19.46	8.48	1.19	0.68	35.75	20.31	1.81
2000	14.15	14.30	0.15	0.41	21.58	19.19	8.09	1.18	0.69	35.94	20.46	1.76
2100	14.19	14.33	0.14	0.67	21.98	18.51	7.79	1.18	0.70	34.91	20.52	1.74
2200	14.26	14.36	0.10	0.83	22.46	17.51	7.52	1.19	0.72	34.62	20.63	1.72
2300	14.33	14.41	0.08	0.87	23.00	16.30	7.31	1.20	0.74	34.16	20.33	1.73
2400	14.41	14.46	0.05	0.89	23.83	14.98	7.13	1.25	0.77	33.99	20.21	1.65
2500	14.52	14.53	0.01	0.99	24.96	13.64	7.05	1.34	0.80	34.19	20.50	1.67
2600	14.59	14.58	0.01	1.14	26.57	12.60	7.03	1.53	0.83	33.48	20.33	1.66
2700	14.65	14.59	0.06	0.82	29.10	11.74	7.23	1.98	0.87	33.14	20.38	1.70
2800	14.66	14.58	0.08	0.65	32.99	11.24	7.47	3.08	0.90	33.20	20.54	1.71
2900	14.59	14.52	0.07	0.39	38.24	11.18	7.88	5.82	0.91	33.67	20.64	1.71
3000	14.49	14.40	0.09	0.12	35.16	11.57	8.32	4.33	0.90	33.66	20.98	1.60

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 = 5.00V, Id1 (A1) = 57.8 mA and Id2 (A2) = 56.62 mA @ Temperature = -45degC

FREQ	A1	A2	A1 & A2		A1							
	Gain		Amp Unbal	Phase Unbal	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(Deg)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
10	20.14	20.15	0.01	0.28	22.75	2.90	4.15	0.38	0.67	--	20.23	--
20	17.93	17.93	0.00	0.16	19.73	6.01	7.06	0.61	0.61	35.99	20.91	1.13
30	16.50	16.48	0.02	0.13	18.92	8.68	9.64	0.78	0.61	37.41	21.23	1.28
40	15.67	15.65	0.02	0.11	18.63	10.83	11.68	0.88	0.61	35.90	20.58	1.34
50	15.16	15.14	0.02	0.11	18.42	12.58	13.34	0.95	0.60	35.77	20.61	1.38
60	14.84	14.82	0.02	0.06	18.24	13.93	14.48	0.99	0.60	37.29	20.99	1.38
70	14.63	14.60	0.03	0.03	18.29	15.20	15.67	1.02	0.61	37.35	21.03	1.34
80	14.49	14.46	0.03	0.01	18.26	16.26	16.61	1.04	0.61	37.73	20.83	1.46
90	14.39	14.36	0.03	0.01	18.22	17.20	17.40	1.05	0.61	38.60	20.84	1.51
100	14.32	14.28	0.04	0.03	18.22	18.04	18.17	1.07	0.61	40.31	20.87	1.50
200	14.06	14.02	0.04	0.12	18.18	23.14	20.71	1.11	0.61	42.56	20.46	1.54
300	13.99	13.96	0.03	0.22	18.23	23.77	19.34	1.11	0.61	41.98	20.72	1.62
400	13.95	13.93	0.02	0.30	18.29	23.36	18.22	1.12	0.61	40.28	20.99	1.67
500	13.95	13.93	0.02	0.34	18.34	23.05	17.17	1.12	0.61	42.16	21.08	1.73
600	13.95	13.94	0.01	0.40	18.43	22.45	16.09	1.12	0.61	39.34	20.71	1.71
700	13.95	13.95	0.00	0.44	18.55	21.66	15.02	1.12	0.61	38.37	20.97	1.62
800	13.96	13.97	0.01	0.47	18.66	20.89	14.04	1.13	0.61	36.74	20.97	1.56
1000	13.96	13.99	0.03	0.49	18.95	19.41	12.17	1.13	0.61	36.80	20.56	1.67
1100	13.97	14.02	0.05	0.50	19.12	18.71	11.36	1.13	0.61	36.73	20.71	1.58
1200	13.97	14.04	0.07	0.51	19.27	18.13	10.61	1.12	0.61	35.95	20.72	1.55
1300	13.99	14.08	0.09	0.45	19.46	17.70	9.90	1.12	0.60	35.39	20.43	1.60
1400	14.01	14.11	0.10	0.38	19.64	17.42	9.28	1.11	0.60	36.17	20.26	1.60
1500	14.04	14.15	0.11	0.34	19.83	17.21	8.73	1.10	0.60	35.25	20.29	1.56
1600	14.09	14.22	0.13	0.18	20.01	17.08	8.23	1.09	0.60	34.69	20.30	1.49
1700	14.15	14.29	0.14	0.10	20.20	17.01	7.74	1.07	0.60	34.50	19.70	1.48
1800	14.23	14.37	0.14	0.04	20.43	16.86	7.28	1.05	0.60	34.27	19.56	1.48
1900	14.32	14.46	0.14	0.20	20.71	16.73	6.88	1.03	0.60	34.20	19.49	1.43
2000	14.43	14.59	0.16	0.29	20.98	16.54	6.49	1.00	0.61	34.15	19.66	1.35
2100	14.56	14.71	0.15	0.60	21.29	15.91	6.19	0.98	0.62	33.56	19.74	1.33
2200	14.72	14.84	0.12	0.82	21.77	15.11	5.94	0.96	0.64	33.58	19.90	1.31
2300	14.87	14.97	0.10	0.89	22.32	14.09	5.75	0.95	0.67	33.66	19.62	1.38
2400	15.00	15.08	0.08	0.97	23.07	12.92	5.59	0.95	0.70	33.54	19.54	1.24
2500	15.15	15.19	0.04	1.10	24.12	11.75	5.52	0.98	0.74	34.20	19.91	1.27
2600	15.25	15.27	0.02	1.37	25.53	10.96	5.48	1.08	0.77	33.42	19.80	1.25
2700	15.34	15.30	0.04	1.03	27.72	10.30	5.63	1.33	0.81	33.71	19.89	1.27
2800	15.37	15.31	0.06	0.95	30.57	10.02	5.79	1.83	0.84	33.98	20.11	1.29
2900	15.33	15.25	0.08	0.72	34.62	10.01	6.15	3.05	0.85	34.01	20.26	1.28
3000	15.25	15.16	0.09	0.43	35.19	10.32	6.58	3.51	0.85	34.66	20.66	1.17

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 = 4.75V, Id1 (A1) = 54.69 mA and Id2 (A2) = 53.72 mA @ Temperature = -45degC

FREQ	A1	A2	A1 & A2		A1							
	Gain		Amp Unbal	Phase Unbal	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(Deg)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
10	20.10	20.10	0.00	0.06	21.98	2.82	4.14	0.43	0.53	--	19.76	--
20	17.90	17.90	0.00	0.21	19.72	5.98	7.04	0.61	0.61	34.83	20.42	1.10
30	16.47	16.45	0.02	0.18	18.87	8.68	9.66	0.78	0.60	36.15	20.78	1.28
40	15.64	15.62	0.02	0.14	18.58	10.81	11.71	0.88	0.61	35.62	20.13	1.35
50	15.14	15.11	0.03	0.13	18.33	12.58	13.38	0.95	0.60	35.56	20.12	1.36
60	14.82	14.79	0.03	0.09	18.38	13.80	14.50	0.99	0.61	37.19	20.48	1.38
70	14.61	14.58	0.03	0.07	18.30	15.20	15.74	1.02	0.61	37.87	20.55	1.32
80	14.47	14.43	0.04	0.05	18.26	16.27	16.66	1.04	0.61	36.33	20.32	1.44
90	14.37	14.33	0.04	0.03	18.24	17.20	17.48	1.06	0.61	39.03	20.32	1.51
100	14.30	14.25	0.05	0.01	18.20	18.05	18.25	1.07	0.61	37.99	20.35	1.52
200	14.04	14.00	0.04	0.12	18.17	23.34	20.95	1.11	0.61	40.88	20.00	1.49
300	13.97	13.93	0.04	0.21	18.22	23.98	19.58	1.12	0.61	43.53	20.26	1.65
400	13.94	13.90	0.04	0.31	18.28	23.60	18.40	1.12	0.61	41.55	20.46	1.69
500	13.93	13.91	0.02	0.37	18.33	23.22	17.35	1.12	0.61	44.76	20.56	1.75
600	13.93	13.91	0.02	0.43	18.41	22.61	16.23	1.12	0.61	39.71	20.23	1.68
700	13.93	13.92	0.01	0.50	18.56	21.86	15.16	1.13	0.62	38.40	20.47	1.61
800	13.94	13.94	0.00	0.53	18.64	21.07	14.17	1.13	0.61	37.16	20.48	1.59
1000	13.94	13.96	0.02	0.58	18.94	19.60	12.27	1.13	0.61	35.98	20.04	1.69
1100	13.95	13.99	0.04	0.61	19.10	18.87	11.44	1.13	0.61	36.95	20.24	1.61
1200	13.95	14.02	0.07	0.61	19.25	18.31	10.69	1.12	0.61	35.74	20.23	1.56
1300	13.96	14.05	0.09	0.53	19.44	17.86	9.99	1.12	0.61	35.56	19.93	1.56
1400	13.99	14.08	0.09	0.46	19.62	17.59	9.36	1.11	0.60	35.91	19.80	1.59
1500	14.02	14.12	0.10	0.45	19.80	17.37	8.80	1.11	0.60	35.20	19.79	1.54
1600	14.07	14.19	0.12	0.31	20.04	17.26	8.31	1.10	0.60	34.60	19.81	1.49
1700	14.12	14.26	0.14	0.21	20.18	17.18	7.82	1.08	0.60	34.68	19.24	1.46
1800	14.19	14.34	0.15	0.11	20.42	17.05	7.36	1.06	0.60	34.39	19.07	1.51
1900	14.29	14.44	0.15	0.08	20.68	16.95	6.96	1.04	0.60	34.15	19.01	1.44
2000	14.39	14.56	0.17	0.13	20.95	16.75	6.57	1.01	0.61	34.06	19.22	1.33
2100	14.52	14.68	0.16	0.45	21.33	16.13	6.27	0.99	0.62	33.42	19.29	1.31
2200	14.68	14.81	0.13	0.66	21.76	15.30	6.02	0.97	0.64	33.51	19.45	1.31
2300	14.83	14.94	0.11	0.76	22.36	14.24	5.83	0.96	0.67	33.31	19.14	1.40
2400	14.96	15.04	0.08	0.83	23.12	13.06	5.68	0.97	0.70	33.31	19.09	1.26
2500	15.11	15.16	0.05	0.97	24.13	11.86	5.61	1.00	0.74	33.75	19.46	1.27
2600	15.21	15.24	0.03	1.21	25.53	11.08	5.57	1.10	0.78	33.07	19.35	1.24
2700	15.29	15.27	0.02	0.88	27.79	10.40	5.72	1.37	0.82	33.11	19.44	1.29
2800	15.32	15.27	0.05	0.80	30.82	10.11	5.89	1.92	0.84	33.29	19.69	1.30
2900	15.28	15.22	0.06	0.56	35.03	10.11	6.25	3.25	0.86	33.47	19.83	1.26
3000	15.20	15.12	0.08	0.28	35.49	10.41	6.70	3.69	0.86	33.81	20.22	1.16

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 =5.25V, Id1 A1) = 61.47 mA and Id2 (A2) =60.5 mA @ Temperature = -45degC

FREQ	A1	A2	A1 & A2		A1							
	Gain		Amp Unbal	Phase Unbal	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(Deg)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
10	20.18	20.16	0.02	0.11	22.86	2.92	4.17	0.37	0.68	--	20.77	--
20	17.97	17.97	0.00	0.20	19.68	6.01	7.06	0.62	0.59	35.05	21.39	1.16
30	16.54	16.53	0.01	0.14	18.93	8.73	9.68	0.78	0.60	38.72	21.74	1.31
40	15.71	15.69	0.02	0.11	18.66	10.86	11.73	0.88	0.61	36.46	21.17	1.36
50	15.21	15.19	0.02	0.09	18.49	12.62	13.37	0.95	0.60	36.88	21.01	1.35
60	14.89	14.87	0.02	0.08	18.28	13.95	14.49	0.99	0.60	37.63	21.47	1.39
70	14.68	14.66	0.02	0.07	18.32	15.24	15.69	1.02	0.60	40.23	21.52	1.35
80	14.54	14.51	0.03	0.06	18.30	16.28	16.60	1.04	0.61	37.18	21.34	1.46
90	14.44	14.42	0.02	0.03	18.26	17.22	17.39	1.05	0.60	39.83	21.31	1.54
100	14.37	14.34	0.03	0.01	18.25	18.08	18.15	1.07	0.61	40.86	21.39	1.52
200	14.11	14.08	0.03	0.09	18.21	23.15	20.67	1.10	0.61	42.50	21.00	1.53
300	14.04	14.01	0.03	0.17	18.26	23.67	19.30	1.11	0.61	41.97	21.36	1.66
400	14.01	13.99	0.02	0.24	18.37	23.26	18.14	1.12	0.61	39.23	21.48	1.71
500	14.00	13.99	0.01	0.30	18.42	22.90	17.13	1.12	0.61	40.26	21.58	1.72
600	14.00	14.00	0.00	0.35	18.50	22.30	16.05	1.12	0.61	38.18	21.27	1.68
700	14.00	14.01	0.01	0.40	18.57	21.55	14.99	1.12	0.61	37.67	21.47	1.63
800	14.01	14.03	0.02	0.42	18.71	20.77	14.02	1.13	0.61	36.82	21.52	1.64
1000	14.01	14.04	0.03	0.46	19.01	19.33	12.12	1.13	0.61	36.98	21.19	1.64
1100	14.02	14.07	0.05	0.47	19.16	18.64	11.33	1.13	0.61	36.66	21.23	1.59
1200	14.02	14.09	0.07	0.44	19.31	18.04	10.57	1.12	0.61	35.62	21.28	1.60
1300	14.03	14.13	0.10	0.38	19.50	17.59	9.87	1.12	0.60	35.76	21.00	1.55
1400	14.06	14.16	0.10	0.32	19.67	17.33	9.25	1.11	0.60	35.89	20.80	1.60
1500	14.09	14.20	0.11	0.27	19.87	17.09	8.70	1.10	0.60	35.37	20.82	1.57
1600	14.14	14.26	0.12	0.15	20.04	16.96	8.20	1.09	0.60	34.49	20.84	1.49
1700	14.19	14.33	0.14	0.05	20.25	16.86	7.71	1.07	0.60	34.74	20.27	1.49
1800	14.26	14.41	0.15	0.07	20.47	16.71	7.26	1.05	0.60	34.32	20.12	1.52
1900	14.36	14.50	0.14	0.28	20.71	16.57	6.85	1.03	0.60	34.47	20.05	1.46
2000	14.46	14.62	0.16	0.34	20.95	16.41	6.46	1.00	0.60	34.23	20.19	1.32
2100	14.59	14.75	0.16	0.64	21.33	15.76	6.16	0.98	0.62	33.69	20.27	1.33
2200	14.75	14.88	0.13	0.85	21.76	14.97	5.91	0.95	0.64	33.40	20.42	1.29
2300	14.90	15.00	0.10	0.94	22.30	13.99	5.71	0.94	0.66	33.61	20.10	1.38
2400	15.03	15.11	0.08	1.02	23.05	12.81	5.56	0.94	0.70	33.87	19.98	1.24
2500	15.18	15.22	0.04	1.14	24.11	11.66	5.48	0.97	0.74	34.02	20.40	1.28
2600	15.28	15.30	0.02	1.40	25.47	10.89	5.44	1.06	0.77	33.86	20.27	1.27
2700	15.37	15.34	0.03	1.07	27.64	10.22	5.58	1.31	0.81	33.94	20.35	1.27
2800	15.40	15.33	0.07	0.97	30.50	9.94	5.74	1.80	0.83	34.27	20.57	1.28
2900	15.36	15.29	0.07	0.74	34.40	9.92	6.10	2.94	0.85	34.44	20.75	1.28
3000	15.27	15.19	0.08	0.48	35.05	10.22	6.52	3.42	0.85	35.24	21.16	1.13

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 = 5.00V, Id1(A1) = 67.87 mA and Id2 (A2) = 68.1 mA @ Temperature = +85degC

FREQ	A1	A2	A1 & A2		A1							
	Gain		Amp Unbal	Phase Unbal	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(Deg)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
10	19.89	19.92	0.03	0.07	22.42	3.28	4.62	0.50	0.56	--	20.15	--
20	17.89	17.89	0.00	0.11	20.40	6.63	8.04	0.72	0.61	37.06	20.73	1.67
30	16.78	16.78	0.00	0.04	19.69	9.37	10.99	0.87	0.60	37.05	21.06	1.87
40	16.20	16.21	0.01	0.01	19.51	11.47	13.42	0.95	0.61	36.52	20.70	1.91
50	15.88	15.88	0.00	0.01	19.28	13.13	15.39	0.99	0.60	37.53	20.58	1.90
60	15.67	15.68	0.01	0.03	19.42	14.27	16.96	1.03	0.62	38.76	20.81	1.90
70	15.54	15.55	0.01	0.03	19.28	15.44	18.64	1.05	0.61	38.41	20.86	1.85
80	15.46	15.46	0.00	0.03	19.24	16.27	19.98	1.06	0.61	37.54	20.71	1.93
90	15.40	15.40	0.00	0.04	19.24	16.99	21.24	1.07	0.61	39.29	20.67	2.00
100	15.35	15.35	0.00	0.04	19.21	17.63	22.49	1.07	0.61	38.02	20.72	1.99
200	15.17	15.17	0.00	0.09	19.24	20.44	33.01	1.10	0.62	39.00	20.46	1.99
300	15.10	15.11	0.01	0.13	19.31	20.73	36.05	1.11	0.63	39.60	20.54	2.10
400	15.04	15.06	0.02	0.13	19.28	21.10	29.04	1.12	0.63	40.08	20.61	2.15
500	15.00	15.03	0.03	0.13	19.38	21.40	25.29	1.12	0.64	39.05	20.68	2.24
600	14.96	14.98	0.02	0.16	19.42	21.43	22.67	1.13	0.64	38.91	20.46	2.17
700	14.90	14.93	0.03	0.15	19.51	21.43	20.68	1.14	0.65	38.23	20.58	2.14
800	14.84	14.88	0.04	0.15	19.61	21.49	19.00	1.15	0.65	38.88	20.60	2.13
1000	14.69	14.75	0.06	0.11	19.88	21.07	16.41	1.17	0.67	36.57	20.29	2.24
1100	14.61	14.68	0.07	0.07	20.03	20.78	15.28	1.18	0.67	37.70	20.27	2.11
1200	14.51	14.60	0.09	0.01	20.20	20.51	14.25	1.20	0.68	38.82	20.35	2.12
1300	14.42	14.51	0.09	0.03	20.38	20.26	13.39	1.21	0.69	37.72	20.19	2.15
1400	14.31	14.42	0.11	0.10	20.57	19.97	12.56	1.23	0.70	37.76	20.10	2.19
1500	14.21	14.32	0.11	0.18	20.76	19.91	11.84	1.24	0.70	37.18	20.09	2.14
1600	14.12	14.25	0.13	0.33	20.98	20.08	11.21	1.26	0.71	37.31	20.16	2.12
1700	14.03	14.17	0.14	0.42	21.17	20.25	10.63	1.27	0.71	36.49	19.78	2.14
1800	13.96	14.10	0.14	0.53	21.39	20.75	10.15	1.28	0.72	36.31	19.71	2.11
1900	13.91	14.05	0.14	0.72	21.67	21.46	9.75	1.30	0.73	36.18	19.65	2.09
2000	13.87	14.02	0.15	0.83	21.94	21.84	9.37	1.31	0.74	35.97	19.75	2.00
2100	13.86	14.00	0.14	1.11	22.30	21.56	9.08	1.33	0.75	35.01	19.79	1.99
2200	13.88	13.98	0.10	1.29	22.73	20.45	8.85	1.35	0.77	34.80	19.88	2.02
2300	13.90	13.99	0.09	1.34	23.37	18.66	8.65	1.40	0.79	34.25	19.57	2.04
2400	13.93	14.00	0.07	1.44	24.21	16.77	8.50	1.47	0.82	33.74	19.49	1.98
2500	14.00	14.04	0.04	1.54	25.40	14.97	8.45	1.61	0.85	33.88	19.66	2.03
2600	14.04	14.06	0.02	1.72	27.13	13.65	8.44	1.88	0.88	33.19	19.50	2.01
2700	14.09	14.06	0.03	1.46	30.05	12.56	8.66	2.56	0.91	32.58	19.61	2.06
2800	14.09	14.04	0.05	1.36	34.50	12.02	8.90	4.24	0.93	32.48	19.72	2.12
2900	14.02	13.97	0.05	1.15	41.26	11.96	9.31	9.48	0.94	32.63	19.85	2.06
3000	13.92	13.85	0.07	0.97	34.65	12.51	9.71	4.65	0.93	32.57	20.20	2.00

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 = 4.75V, Id1(A1) = 64.12 mA and Id2 (A2) = 64.28 mA @ Temperature = +85degC

FREQ	A1	A2	A1 & A2		A1							
	Gain		Amp Unbal	Phase Unbal	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(Deg)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
10	19.87	19.87	0.00	0.12	22.32	3.06	4.61	0.51	0.54	--	19.76	--
20	17.86	17.86	0.00	0.08	20.43	6.61	8.04	0.72	0.62	34.43	20.39	1.65
30	16.75	16.75	0.00	0.02	19.77	9.34	10.98	0.87	0.61	36.06	20.75	1.81
40	16.17	16.17	0.00	0.03	19.45	11.42	13.40	0.95	0.61	37.86	20.41	1.89
50	15.84	15.85	0.01	0.04	19.27	13.02	15.37	1.00	0.60	36.01	20.24	1.85
60	15.64	15.64	0.00	0.03	19.42	14.34	16.92	1.03	0.63	38.09	20.49	1.90
70	15.50	15.51	0.01	0.04	19.27	15.38	18.57	1.05	0.61	37.79	20.53	1.84
80	15.42	15.42	0.00	0.03	19.24	16.21	19.93	1.06	0.61	37.84	20.41	1.95
90	15.35	15.36	0.01	0.04	19.22	16.92	21.17	1.07	0.61	38.06	20.35	1.97
100	15.31	15.31	0.00	0.04	19.19	17.53	22.38	1.08	0.61	37.30	20.39	1.97
200	15.13	15.14	0.01	0.04	19.20	20.26	32.42	1.10	0.62	37.67	20.14	1.98
300	15.06	15.08	0.02	0.07	19.23	20.58	35.94	1.11	0.63	37.68	20.25	2.16
400	15.00	15.02	0.02	0.06	19.28	20.98	29.51	1.12	0.63	39.58	20.31	2.18
500	14.96	14.99	0.03	0.06	19.34	21.21	25.62	1.12	0.64	38.53	20.36	2.24
600	14.91	14.95	0.04	0.04	19.43	21.28	23.02	1.13	0.64	37.72	20.17	2.17
700	14.86	14.90	0.04	0.03	19.48	21.28	20.97	1.14	0.65	37.68	20.26	2.10
800	14.80	14.85	0.05	0.00	19.58	21.36	19.27	1.15	0.65	38.62	20.28	2.12
1000	14.65	14.72	0.07	0.05	19.85	20.98	16.66	1.17	0.67	36.21	19.99	2.21
1100	14.57	14.64	0.07	0.10	19.98	20.73	15.49	1.18	0.68	37.28	19.97	2.08
1200	14.47	14.56	0.09	0.16	20.18	20.50	14.45	1.20	0.69	37.47	20.03	2.12
1300	14.38	14.48	0.10	0.25	20.34	20.23	13.61	1.21	0.69	36.90	19.88	2.11
1400	14.28	14.38	0.10	0.32	20.52	19.97	12.76	1.23	0.70	36.96	19.77	2.18
1500	14.17	14.28	0.11	0.39	20.71	19.90	12.02	1.24	0.70	36.64	19.79	2.16
1600	14.09	14.21	0.12	0.57	20.93	20.10	11.40	1.26	0.71	36.67	19.81	2.09
1700	13.99	14.13	0.14	0.66	21.13	20.33	10.83	1.27	0.72	35.81	19.46	2.10
1800	13.93	14.07	0.14	0.78	21.35	20.87	10.34	1.29	0.72	35.54	19.39	2.10
1900	13.88	14.01	0.13	0.96	21.62	21.62	9.94	1.30	0.73	35.25	19.32	2.07
2000	13.84	13.98	0.14	1.09	21.88	22.15	9.57	1.31	0.74	35.08	19.44	1.98
2100	13.83	13.96	0.13	1.37	22.30	21.95	9.30	1.34	0.76	34.51	19.48	2.01
2200	13.85	13.95	0.10	1.57	22.78	20.84	9.07	1.37	0.77	33.70	19.53	2.00
2300	13.87	13.96	0.09	1.65	23.40	18.96	8.90	1.42	0.80	33.71	19.25	2.02
2400	13.91	13.97	0.06	1.72	24.29	17.01	8.76	1.50	0.82	33.03	19.16	1.92
2500	13.98	14.01	0.03	1.80	25.54	15.17	8.73	1.66	0.86	33.14	19.33	2.01
2600	14.02	14.03	0.01	1.99	27.30	13.83	8.77	1.96	0.89	32.24	19.16	1.97
2700	14.06	14.03	0.03	1.73	30.31	12.72	9.01	2.69	0.92	32.13	19.26	2.03
2800	14.06	14.00	0.06	1.62	35.53	12.17	9.30	4.88	0.94	31.78	19.39	2.06
2900	13.99	13.94	0.05	1.44	45.15	12.14	9.75	15.16	0.95	31.91	19.53	2.03
3000	13.88	13.82	0.06	1.27	34.54	12.72	10.20	4.69	0.94	31.93	19.82	1.89

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 = 5.25V, Id1(A1) = 71.57 mA and Id2 (A2) = 71.94 mA @ Temperature = +85degC

FREQ	A1	A2	A1 & A2		A1							
	Gain		Amp Unbal	Phase Unbal	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(Deg)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
10	19.92	19.94	0.02	0.32	22.48	3.20	4.50	0.52	0.52	--	20.51	--
20	17.91	17.92	0.01	0.07	20.48	6.65	8.04	0.72	0.61	36.17	21.06	1.70
30	16.81	16.81	0.00	0.02	19.70	9.39	11.00	0.87	0.60	36.71	21.33	1.84
40	16.23	16.24	0.01	0.02	19.46	11.51	13.40	0.95	0.60	36.31	20.93	1.91
50	15.91	15.91	0.00	0.04	19.34	13.15	15.40	1.00	0.60	38.59	20.85	1.92
60	15.70	15.71	0.01	0.06	19.43	14.29	16.97	1.03	0.62	38.45	21.08	1.91
70	15.58	15.58	0.00	0.06	19.31	15.47	18.70	1.05	0.61	38.19	21.12	1.88
80	15.49	15.49	0.00	0.05	19.29	16.34	20.06	1.06	0.61	37.91	20.94	1.94
90	15.43	15.43	0.00	0.07	19.26	17.05	21.30	1.07	0.61	38.89	20.93	1.97
100	15.38	15.38	0.00	0.07	19.25	17.69	22.58	1.08	0.61	38.58	20.98	1.99
200	15.20	15.21	0.01	0.12	19.25	20.55	33.56	1.10	0.62	39.28	20.71	2.00
300	15.14	15.15	0.01	0.14	19.26	20.90	35.63	1.11	0.62	40.37	20.80	2.16
400	15.08	15.10	0.02	0.16	19.32	21.27	28.61	1.12	0.63	40.11	20.87	2.16
500	15.04	15.06	0.02	0.18	19.41	21.55	24.95	1.12	0.63	40.22	20.94	2.24
600	14.99	15.02	0.03	0.20	19.42	21.59	22.38	1.13	0.64	41.74	20.71	2.21
700	14.93	14.97	0.04	0.20	19.54	21.54	20.42	1.14	0.64	39.80	20.84	2.11
800	14.87	14.92	0.05	0.20	19.65	21.62	18.76	1.15	0.65	40.14	20.87	2.10
1000	14.72	14.78	0.06	0.18	19.91	21.13	16.19	1.17	0.67	37.55	20.54	2.19
1100	14.64	14.71	0.07	0.12	20.07	20.81	15.07	1.18	0.67	39.24	20.51	2.12
1200	14.54	14.63	0.09	0.07	20.22	20.53	14.06	1.19	0.68	38.32	20.60	2.16
1300	14.44	14.54	0.10	0.02	20.41	20.22	13.22	1.21	0.69	38.39	20.45	2.19
1400	14.34	14.45	0.11	0.03	20.57	19.95	12.39	1.22	0.69	38.03	20.34	2.20
1500	14.24	14.35	0.11	0.09	20.79	19.87	11.67	1.24	0.70	38.19	20.36	2.18
1600	14.15	14.27	0.12	0.23	20.98	20.00	11.06	1.25	0.70	37.97	20.43	2.16
1700	14.05	14.19	0.14	0.33	21.16	20.20	10.47	1.26	0.71	37.02	20.05	2.12
1800	13.99	14.12	0.13	0.44	21.43	20.64	9.98	1.28	0.72	37.09	20.00	2.13
1900	13.93	14.07	0.14	0.62	21.67	21.24	9.58	1.29	0.72	36.45	19.90	2.14
2000	13.90	14.04	0.14	0.71	21.95	21.64	9.21	1.30	0.73	36.19	20.01	2.03
2100	13.88	14.01	0.13	1.00	22.30	21.29	8.90	1.31	0.74	35.57	20.07	2.03
2200	13.90	14.00	0.10	1.17	22.76	20.22	8.66	1.34	0.76	35.00	20.16	2.06
2300	13.92	14.01	0.09	1.24	23.37	18.44	8.46	1.38	0.78	34.74	19.85	2.04
2400	13.96	14.02	0.06	1.30	24.18	16.62	8.29	1.45	0.81	34.43	19.77	1.99
2500	14.03	14.06	0.03	1.39	25.35	14.85	8.22	1.58	0.84	34.52	19.94	2.02
2600	14.07	14.08	0.01	1.54	27.05	13.54	8.19	1.84	0.87	33.65	19.78	2.02
2700	14.11	14.08	0.03	1.30	29.72	12.48	8.38	2.43	0.91	33.59	19.87	2.09
2800	14.12	14.05	0.07	1.18	33.98	11.92	8.60	3.93	0.93	33.31	19.97	2.13
2900	14.05	13.99	0.06	0.96	39.30	11.87	8.97	7.43	0.93	33.29	20.12	2.14
3000	13.95	13.87	0.08	0.77	34.35	12.41	9.34	4.42	0.92	33.40	20.49	2.04