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) = 140.57mA and Id2 (A2) =141.13mA @ 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)
50	17.92	17.88	0.04	1.08	21.73	11.58	14.16	0.97	0.67	41.43	22.61	1.59
60	17.54	17.50	0.04	0.32	21.30	12.80	15.17	1.00	0.65	40.33	22.33	1.61
70	17.31	17.27	0.04	0.28	21.06	13.93	16.15	1.02	0.63	40.67	22.27	1.63
80	17.14	17.10	0.04	0.30	20.91	14.93	16.97	1.03	0.62	40.35	22.39	1.62
90	17.02	16.98	0.04	0.26	20.82	15.79	17.59	1.04	0.62	39.76	22.40	1.64
100	16.92	16.88	0.04	0.33	20.76	16.54	18.19	1.05	0.62	39.43	22.30	1.62
200	16.53	16.49	0.04	0.36	20.56	20.75	20.92	1.09	0.61	39.47	22.36	1.68
300	16.41	16.38	0.03	0.42	20.52	21.95	21.47	1.10	0.61	39.22	22.36	1.65
400	16.33	16.29	0.03	0.25	20.48	21.94	21.33	1.10	0.62	38.64	22.30	1.71
500	16.25	16.21	0.03	0.40	20.45	21.39	20.94	1.11	0.62	39.12	22.53	1.72
600	16.16	16.13	0.03	0.55	20.40	20.57	20.47	1.11	0.62	38.41	22.44	1.83
700	16.06	16.03	0.03	0.70	20.35	19.64	19.86	1.11	0.62	38.62	22.59	1.79
800	15.95	15.93	0.02	0.77	20.29	18.67	19.28	1.11	0.63	38.32	22.46	1.77
900	15.84	15.82	0.02	0.62	20.23	17.75	18.69	1.11	0.63	38.01	22.33	1.75
1000	15.72	15.70	0.01	0.59	20.17	16.87	18.02	1.11	0.63	39.18	22.80	1.82
1100	15.58	15.58	0.01	0.56	20.09	16.02	17.39	1.11	0.64	38.86	22.53	1.88
1200	15.44	15.44	0.00	0.46	20.02	15.21	16.75	1.12	0.64	39.02	22.64	1.91
1300	15.29	15.30	0.00	0.50	19.94	14.45	16.11	1.12	0.64	38.39	22.59	1.93
1400	15.14	15.15	0.02	0.55	19.87	13.70	15.50	1.12	0.65	37.87	22.57	1.94
1500	14.97	14.99	0.03	0.42	19.79	13.04	14.89	1.12	0.65	38.57	22.58	1.99
1600	14.79	14.82	0.03	0.39	19.71	12.38	14.33	1.12	0.66	38.62	22.66	1.99
1700	14.62	14.65	0.03	0.40	19.63	11.74	13.75	1.12	0.66	38.23	22.55	2.02
1800	14.43	14.46	0.03	0.36	19.55	11.14	13.15	1.12	0.66	38.56	22.37	2.07
1900	14.24	14.27	0.04	0.46	19.47	10.56	12.66	1.12	0.67	37.64	22.21	2.03
2000	14.04	14.08	0.03	0.47	19.39	10.00	12.13	1.12	0.67	38.16	22.15	2.06
2100	13.83	13.86	0.03	0.55	19.33	9.46	11.59	1.12	0.68	38.43	22.35	2.08
2200	13.60	13.63	0.02	0.52	19.26	8.94	11.12	1.12	0.68	39.74	22.43	2.17
2300	13.38	13.40	0.02	0.47	19.23	8.51	10.69	1.12	0.69	37.79	21.95	2.16
2400	13.15	13.15	0.00	0.45	19.15	8.00	10.17	1.12	0.69	38.37	21.87	2.16
2500	12.91	12.91	0.00	0.38	19.14	7.62	9.82	1.12	0.70	38.00	21.78	2.27
2600	12.65	12.63	0.02	0.38	19.08	7.17	9.30	1.12	0.70	36.81	21.33	2.36
2700	12.41	12.39	0.02	0.31	19.04	6.76	8.90	1.11	0.70	37.53	21.47	2.43
2800	12.13	12.11	0.03	0.34	19.02	6.39	8.51	1.11	0.71	36.97	21.15	2.50
2900	11.86	11.80	0.05	0.33	19.01	6.04	8.12	1.12	0.71	36.91	21.00	2.49
3000	11.57	11.52	0.06	0.39	19.00	5.71	7.75	1.11	0.72	37.24	20.99	2.45

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) = 126.01mA and Id2 (A2) = 126.60mA @ 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)
50	17.86	17.81	0.04	1.17	21.70	11.50	14.15	0.97	0.67	39.44	22.04	1.56
60	17.48	17.44	0.04	0.36	21.27	12.72	15.18	1.00	0.65	39.73	21.73	1.55
70	17.25	17.20	0.05	0.28	21.03	13.84	16.18	1.02	0.64	40.66	21.68	1.61
80	17.08	17.04	0.05	0.29	20.88	14.84	17.03	1.03	0.63	39.91	21.79	1.59
90	16.96	16.91	0.05	0.26	20.79	15.71	17.66	1.04	0.62	40.40	21.80	1.61
100	16.86	16.81	0.05	0.33	20.72	16.46	18.29	1.05	0.62	39.84	21.71	1.59
200	16.48	16.43	0.05	0.34	20.52	20.63	21.17	1.09	0.61	40.16	21.76	1.65
300	16.36	16.31	0.05	0.40	20.48	21.81	21.79	1.10	0.62	40.77	21.76	1.69
400	16.28	16.23	0.05	0.30	20.44	21.84	21.65	1.10	0.62	39.39	21.71	1.68
500	16.19	16.15	0.05	0.41	20.40	21.31	21.25	1.11	0.62	40.04	21.94	1.76
600	16.11	16.06	0.05	0.56	20.36	20.52	20.76	1.11	0.62	39.97	21.85	1.83
700	16.01	15.96	0.04	0.69	20.30	19.60	20.13	1.11	0.63	40.37	22.00	1.75
800	15.90	15.86	0.04	0.77	20.25	18.64	19.51	1.11	0.63	38.95	21.89	1.75
900	15.79	15.75	0.04	0.63	20.18	17.72	18.88	1.11	0.63	38.50	21.76	1.74
1000	15.66	15.64	0.03	0.58	20.11	16.86	18.19	1.11	0.64	40.40	22.24	1.72
1100	15.53	15.51	0.02	0.57	20.04	16.00	17.53	1.11	0.64	39.80	21.96	1.85
1200	15.39	15.37	0.01	0.48	19.96	15.19	16.86	1.11	0.64	39.99	22.07	1.88
1300	15.24	15.23	0.01	0.53	19.88	14.43	16.20	1.11	0.65	38.98	22.02	1.91
1400	15.08	15.09	0.01	0.55	19.81	13.68	15.56	1.12	0.65	38.29	22.02	1.90
1500	14.91	14.93	0.02	0.44	19.72	13.02	14.93	1.12	0.65	38.78	22.03	1.96
1600	14.74	14.76	0.02	0.40	19.64	12.36	14.36	1.12	0.66	38.86	22.10	2.00
1700	14.56	14.58	0.02	0.40	19.56	11.72	13.75	1.12	0.66	38.73	21.99	2.03
1800	14.37	14.40	0.02	0.38	19.49	11.12	13.14	1.12	0.66	38.20	21.82	2.03
1900	14.18	14.21	0.03	0.45	19.40	10.54	12.65	1.12	0.67	37.57	21.69	2.03
2000	13.98	14.01	0.03	0.45	19.32	9.98	12.11	1.11	0.67	37.75	21.64	2.04
2100	13.77	13.79	0.02	0.54	19.26	9.44	11.55	1.11	0.68	38.42	21.80	2.05
2200	13.55	13.56	0.01	0.51	19.19	8.93	11.07	1.11	0.68	39.42	21.88	2.16
2300	13.31	13.33	0.02	0.46	19.16	8.49	10.65	1.12	0.69	37.02	21.44	2.13
2400	13.08	13.08	0.00	0.46	19.08	7.98	10.12	1.11	0.69	37.35	21.36	2.12
2500	12.84	12.84	0.00	0.40	19.07	7.60	9.77	1.12	0.70	36.56	21.29	2.22
2600	12.58	12.56	0.02	0.39	19.01	7.15	9.24	1.11	0.70	35.50	20.85	2.30
2700	12.34	12.32	0.02	0.35	18.97	6.74	8.84	1.11	0.70	36.09	20.99	2.37
2800	12.06	12.04	0.03	0.37	18.96	6.37	8.45	1.11	0.71	35.32	20.69	2.50
2900	11.78	11.73	0.05	0.37	18.95	6.02	8.06	1.11	0.71	34.88	20.52	2.45
3000	11.50	11.45	0.05	0.45	18.94	5.69	7.69	1.11	0.72	35.30	20.52	2.42

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) = 156.27mA and Id2 (A2) = 156.75mA @ 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)
50	17.97	17.93	0.04	1.08	21.77	11.67	14.22	0.98	0.67	42.16	23.22	1.63
60	17.59	17.55	0.04	0.31	21.35	12.91	15.24	1.00	0.65	40.45	22.91	1.64
70	17.36	17.32	0.04	0.28	21.11	14.03	16.22	1.02	0.63	39.85	22.84	1.67
80	17.20	17.16	0.04	0.29	20.97	15.03	17.05	1.03	0.62	40.16	22.98	1.66
90	17.08	17.03	0.05	0.27	20.87	15.89	17.66	1.04	0.62	39.43	22.99	1.66
100	16.98	16.93	0.05	0.33	20.81	16.65	18.27	1.05	0.62	39.00	22.88	1.66
200	16.60	16.55	0.05	0.40	20.61	20.86	20.99	1.09	0.61	38.73	22.94	1.72
300	16.48	16.43	0.05	0.43	20.57	22.06	21.54	1.10	0.61	38.75	22.94	1.69
400	16.40	16.35	0.05	0.24	20.54	22.03	21.39	1.10	0.61	38.06	22.87	1.74
500	16.32	16.27	0.05	0.39	20.50	21.47	21.01	1.11	0.62	38.72	23.09	1.77
600	16.23	16.19	0.05	0.55	20.46	20.64	20.53	1.11	0.62	38.05	22.98	1.83
700	16.13	16.09	0.04	0.72	20.41	19.70	19.94	1.11	0.62	38.10	23.13	1.80
800	16.02	15.99	0.03	0.80	20.36	18.73	19.35	1.11	0.63	37.83	22.99	1.80
900	15.90	15.88	0.03	0.62	20.30	17.80	18.77	1.11	0.63	37.55	22.86	1.79
1000	15.78	15.76	0.02	0.58	20.23	16.93	18.11	1.12	0.63	38.74	23.34	1.81
1100	15.65	15.64	0.02	0.57	20.16	16.07	17.48	1.12	0.64	38.31	23.07	1.87
1200	15.51	15.50	0.01	0.46	20.10	15.26	16.85	1.12	0.64	38.47	23.17	1.94
1300	15.36	15.36	0.00	0.49	20.02	14.50	16.23	1.12	0.64	37.79	23.10	1.96
1400	15.21	15.22	0.01	0.55	19.95	13.75	15.62	1.12	0.65	37.41	23.07	1.97
1500	15.04	15.06	0.02	0.44	19.87	13.09	15.02	1.12	0.65	37.95	23.09	2.04
1600	14.87	14.89	0.02	0.38	19.79	12.43	14.47	1.12	0.66	38.27	23.18	2.04
1700	14.69	14.72	0.03	0.39	19.71	11.78	13.88	1.12	0.66	37.99	23.05	2.07
1800	14.50	14.53	0.03	0.37	19.64	11.18	13.29	1.12	0.66	37.72	22.86	2.11
1900	14.31	14.35	0.03	0.47	19.55	10.60	12.81	1.12	0.67	37.24	22.70	2.10
2000	14.12	14.15	0.03	0.49	19.48	10.04	12.28	1.12	0.67	37.69	22.64	2.10
2100	13.91	13.94	0.03	0.58	19.41	9.50	11.73	1.12	0.68	37.94	22.85	2.14
2200	13.69	13.71	0.02	0.54	19.34	8.98	11.27	1.12	0.68	38.72	22.96	2.19
2300	13.46	13.48	0.03	0.49	19.32	8.54	10.82	1.12	0.69	37.50	22.44	2.20
2400	13.23	13.24	0.01	0.49	19.23	8.04	10.31	1.12	0.69	37.91	22.35	2.23
2500	12.99	13.00	0.01	0.41	19.21	7.66	9.95	1.12	0.70	37.59	22.25	2.32
2600	12.74	12.73	0.01	0.38	19.16	7.20	9.44	1.12	0.70	36.72	21.80	2.39
2700	12.49	12.49	0.01	0.33	19.11	6.79	9.05	1.12	0.71	37.34	21.92	2.45
2800	12.23	12.21	0.02	0.33	19.10	6.42	8.65	1.12	0.71	36.88	21.61	2.55
2900	11.94	11.90	0.04	0.34	19.09	6.07	8.26	1.12	0.72	36.90	21.41	2.61
3000	11.67	11.63	0.04	0.41	19.07	5.73	7.88	1.12	0.72	37.11	21.44	2.53

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 = 5.00V, Id1 (A1) = 128.56mA and Id2 (A2) = 129.50mA @ 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)
50	17.78	17.75	0.03	1.18	21.41	10.86	12.90	0.93	0.67	40.20	22.45	1.22
60	17.35	17.31	0.04	0.37	20.93	12.01	13.81	0.96	0.65	38.45	22.18	1.22
70	17.06	17.02	0.04	0.27	20.65	13.06	14.74	0.98	0.63	38.15	22.13	1.26
80	16.85	16.82	0.04	0.29	20.47	13.98	15.56	1.00	0.62	37.93	22.25	1.27
90	16.69	16.66	0.04	0.29	20.36	14.79	16.22	1.02	0.61	37.12	22.28	1.31
100	16.57	16.53	0.04	0.37	20.28	15.51	16.86	1.03	0.61	36.40	22.20	1.28
200	16.08	16.05	0.03	0.38	20.03	20.21	18.79	1.08	0.60	35.69	22.24	1.36
300	15.94	15.90	0.04	0.47	19.99	21.38	19.01	1.10	0.60	35.39	22.26	1.27
400	15.85	15.81	0.04	0.40	19.96	21.23	18.49	1.10	0.60	34.86	22.24	1.38
500	15.78	15.74	0.03	0.59	19.93	20.48	18.26	1.10	0.60	35.53	22.48	1.43
600	15.70	15.67	0.03	0.75	19.91	19.71	17.66	1.11	0.60	35.07	22.42	1.50
700	15.60	15.58	0.02	0.92	19.87	19.02	17.39	1.11	0.61	35.16	22.57	1.43
800	15.51	15.49	0.02	1.06	19.83	18.35	17.00	1.11	0.61	34.70	22.46	1.44
900	15.42	15.41	0.01	0.98	19.78	17.60	16.69	1.11	0.61	34.55	22.37	1.44
1000	15.31	15.31	0.00	0.98	19.73	16.92	16.22	1.11	0.61	35.82	22.80	1.44
1100	15.20	15.21	0.00	1.03	19.68	16.17	15.80	1.12	0.62	35.44	22.56	1.49
1200	15.07	15.08	0.01	0.94	19.63	15.30	15.10	1.12	0.62	35.33	22.67	1.55
1300	14.94	14.95	0.01	1.17	19.57	14.55	14.67	1.12	0.62	34.91	22.68	1.56
1400	14.80	14.83	0.03	1.24	19.53	13.73	14.05	1.12	0.62	34.54	22.66	1.55
1500	14.65	14.69	0.04	1.25	19.47	13.13	13.73	1.12	0.63	35.16	22.70	1.62
1600	14.50	14.54	0.04	1.29	19.41	12.50	13.24	1.12	0.63	35.23	22.72	1.61
1700	14.34	14.38	0.04	1.41	19.35	11.87	12.79	1.12	0.63	35.21	22.66	1.65
1800	14.17	14.22	0.05	1.37	19.30	11.28	12.24	1.12	0.64	34.85	22.48	1.67
1900	14.01	14.05	0.05	1.48	19.22	10.77	11.95	1.12	0.64	34.02	22.36	1.66
2000	13.83	13.88	0.05	1.56	19.17	10.21	11.41	1.12	0.64	34.41	22.31	1.67
2100	13.65	13.69	0.04	1.59	19.11	9.71	11.04	1.12	0.65	34.79	22.44	1.67
2200	13.45	13.47	0.02	1.64	19.06	9.18	10.66	1.12	0.65	35.44	22.54	1.74
2300	13.24	13.27	0.03	1.59	19.05	8.74	10.24	1.13	0.66	34.26	22.16	1.72
2400	13.03	13.05	0.02	1.73	18.98	8.25	9.78	1.12	0.66	34.61	22.15	1.71
2500	12.82	12.84	0.02	1.76	18.97	7.85	9.45	1.13	0.66	34.23	22.01	1.80
2600	12.58	12.59	0.01	1.70	18.92	7.42	9.00	1.12	0.66	33.43	21.56	1.89
2700	12.37	12.39	0.01	1.69	18.88	7.03	8.69	1.12	0.67	33.82	21.75	1.90
2800	12.12	12.13	0.01	1.66	18.87	6.66	8.30	1.12	0.67	33.52	21.41	1.97
2900	11.87	11.85	0.02	1.64	18.86	6.29	7.98	1.12	0.68	33.43	21.27	1.94
3000	11.61	11.58	0.03	1.78	18.86	5.92	7.61	1.12	0.68	33.24	21.17	1.92

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) = 113.92mA and Id2 (A2) = 114.84mA @ 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)
50	17.71	17.68	0.03	1.18	21.36	10.78	12.86	0.93	0.67	39.46	21.82	1.20
60	17.27	17.24	0.04	0.37	20.88	11.93	13.81	0.96	0.65	38.32	21.52	1.19
70	16.99	16.95	0.04	0.32	20.59	12.98	14.77	0.98	0.63	37.73	21.48	1.25
80	16.78	16.74	0.04	0.34	20.41	13.91	15.63	1.00	0.62	37.95	21.59	1.25
90	16.62	16.58	0.04	0.32	20.29	14.73	16.32	1.02	0.62	37.50	21.63	1.29
100	16.50	16.45	0.04	0.41	20.21	15.47	17.01	1.03	0.61	36.85	21.55	1.25
200	16.01	15.97	0.04	0.40	19.97	20.29	19.18	1.08	0.60	36.22	21.59	1.35
300	15.87	15.83	0.05	0.49	19.92	21.56	19.49	1.10	0.60	35.53	21.62	1.28
400	15.79	15.74	0.05	0.45	19.90	21.47	18.95	1.10	0.60	35.37	21.60	1.37
500	15.71	15.67	0.04	0.64	19.87	20.69	18.70	1.10	0.60	36.10	21.84	1.44
600	15.63	15.59	0.04	0.80	19.84	19.92	18.08	1.11	0.61	35.54	21.78	1.47
700	15.54	15.51	0.03	0.96	19.80	19.23	17.80	1.11	0.61	35.68	21.92	1.42
800	15.45	15.42	0.03	1.08	19.76	18.52	17.38	1.11	0.61	35.10	21.84	1.42
900	15.36	15.33	0.02	1.04	19.72	17.77	17.06	1.11	0.61	34.91	21.73	1.44
1000	15.25	15.24	0.01	1.04	19.67	17.09	16.55	1.11	0.62	36.31	22.14	1.42
1100	15.15	15.14	0.01	1.09	19.61	16.31	16.11	1.12	0.62	35.88	21.93	1.49
1200	15.02	15.01	0.00	1.03	19.57	15.44	15.38	1.12	0.62	35.75	22.03	1.56
1300	14.89	14.89	0.00	1.24	19.51	14.68	14.92	1.12	0.62	35.29	22.04	1.56
1400	14.75	14.76	0.01	1.31	19.47	13.84	14.28	1.12	0.63	34.89	22.04	1.55
1500	14.60	14.62	0.02	1.32	19.40	13.23	13.94	1.12	0.63	35.49	22.06	1.61
1600	14.45	14.48	0.02	1.38	19.35	12.59	13.43	1.12	0.63	35.42	22.08	1.64
1700	14.29	14.32	0.03	1.48	19.29	11.95	12.97	1.12	0.64	35.68	22.03	1.64
1800	14.13	14.16	0.04	1.46	19.23	11.35	12.39	1.12	0.64	35.05	21.85	1.67
1900	13.96	14.00	0.04	1.56	19.16	10.84	12.09	1.12	0.64	34.23	21.75	1.62
2000	13.79	13.82	0.04	1.66	19.11	10.27	11.54	1.12	0.64	34.54	21.72	1.64
2100	13.61	13.63	0.03	1.68	19.06	9.77	11.16	1.12	0.65	34.92	21.82	1.65
2200	13.41	13.42	0.01	1.73	19.00	9.24	10.76	1.12	0.65	35.94	21.93	1.72
2300	13.20	13.22	0.02	1.69	19.00	8.78	10.34	1.13	0.66	34.44	21.58	1.72
2400	12.99	13.00	0.01	1.82	18.93	8.29	9.87	1.12	0.66	34.85	21.57	1.72
2500	12.78	12.79	0.01	1.87	18.91	7.89	9.53	1.13	0.67	34.40	21.46	1.78
2600	12.55	12.55	0.00	1.84	18.87	7.45	9.07	1.12	0.67	33.62	21.04	1.87
2700	12.34	12.34	0.00	1.85	18.83	7.06	8.76	1.12	0.67	34.04	21.23	1.88
2800	12.09	12.09	0.00	1.81	18.82	6.68	8.36	1.12	0.68	33.65	20.91	1.98
2900	11.84	11.80	0.04	1.80	18.82	6.32	8.04	1.12	0.68	33.63	20.79	1.88
3000	11.58	11.54	0.04	1.94	18.82	5.95	7.66	1.12	0.68	33.37	20.67	1.90

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) = 143.74mAand Id2 (A2) =144.64mA@ 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)
50	17.84	17.81	0.04	1.15	21.46	10.89	12.94	0.93	0.67	39.73	23.05	1.26
60	17.40	17.36	0.04	0.40	20.98	12.03	13.85	0.96	0.65	38.57	22.77	1.25
70	17.12	17.08	0.04	0.31	20.70	13.08	14.75	0.98	0.63	37.98	22.72	1.26
80	16.91	16.87	0.04	0.33	20.53	14.01	15.56	1.00	0.62	37.20	22.85	1.29
90	16.75	16.71	0.04	0.32	20.41	14.85	16.19	1.02	0.61	36.75	22.88	1.32
100	16.63	16.58	0.05	0.40	20.33	15.57	16.82	1.03	0.61	36.31	22.79	1.30
200	16.14	16.10	0.05	0.45	20.09	20.22	18.61	1.08	0.60	35.60	22.83	1.38
300	16.01	15.95	0.05	0.53	20.04	21.30	18.79	1.10	0.60	35.20	22.85	1.34
400	15.92	15.87	0.05	0.44	20.02	21.14	18.27	1.10	0.60	34.84	22.81	1.39
500	15.84	15.79	0.04	0.65	19.99	20.35	18.03	1.10	0.60	35.47	23.06	1.42
600	15.76	15.72	0.04	0.82	19.97	19.60	17.46	1.11	0.60	34.85	22.99	1.49
700	15.67	15.64	0.03	1.01	19.93	18.92	17.21	1.11	0.60	34.95	23.13	1.44
800	15.57	15.55	0.03	1.18	19.89	18.24	16.82	1.11	0.61	34.51	23.02	1.47
900	15.47	15.45	0.02	1.10	19.84	17.51	16.53	1.11	0.61	34.45	22.93	1.42
1000	15.37	15.36	0.01	1.10	19.79	16.85	16.07	1.11	0.61	35.51	23.37	1.46
1100	15.26	15.25	0.01	1.16	19.73	16.09	15.66	1.11	0.61	35.05	23.38	1.52
1200	15.13	15.13	0.00	1.11	19.69	15.23	14.98	1.12	0.62	35.25	23.24	1.57
1300	15.00	15.00	0.00	1.32	19.63	14.49	14.55	1.12	0.62	34.79	23.23	1.59
1400	14.85	14.87	0.02	1.42	19.58	13.66	13.95	1.12	0.62	34.43	23.20	1.56
1500	14.71	14.73	0.02	1.42	19.52	13.08	13.63	1.12	0.63	34.97	23.25	1.63
1600	14.55	14.58	0.03	1.49	19.45	12.45	13.15	1.12	0.63	35.05	23.27	1.65
1700	14.39	14.43	0.04	1.60	19.39	11.82	12.71	1.12	0.63	35.05	23.21	1.67
1800	14.22	14.26	0.04	1.60	19.34	11.24	12.17	1.12	0.63	34.67	23.01	1.68
1900	14.05	14.09	0.04	1.71	19.27	10.73	11.88	1.12	0.64	33.93	22.86	1.65
2000	13.88	13.92	0.04	1.84	19.21	10.17	11.35	1.12	0.64	34.26	22.84	1.67
2100	13.69	13.73	0.03	1.87	19.15	9.68	11.00	1.12	0.64	34.53	22.95	1.65
2200	13.49	13.51	0.02	1.93	19.10	9.15	10.60	1.12	0.65	35.39	23.08	1.75
2300	13.28	13.30	0.02	1.91	19.08	8.70	10.18	1.13	0.65	34.14	22.65	1.76
2400	13.08	13.09	0.01	2.03	19.01	8.22	9.75	1.12	0.66	34.52	22.62	1.75
2500	12.86	12.87	0.01	2.07	19.00	7.83	9.41	1.12	0.66	34.04	22.47	1.83
2600	12.62	12.63	0.01	2.03	18.95	7.40	8.96	1.12	0.66	33.39	22.01	1.88
2700	12.42	12.42	0.01	2.02	18.91	7.01	8.66	1.12	0.67	33.74	22.17	1.93
2800	12.16	12.17	0.02	2.03	18.90	6.63	8.28	1.12	0.67	33.44	21.85	2.01
2900	11.91	11.88	0.03	2.05	18.89	6.27	7.96	1.12	0.68	33.29	21.70	2.00
3000	11.65	11.62	0.03	2.17	18.89	5.90	7.59	1.12	0.68	33.07	21.58	1.93

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) = 144.68mA and Id2 (A2) = 145.78mA @ 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)
50	17.90	17.86	0.03	0.94	21.94	12.08	15.20	1.01	0.67	40.21	22.53	1.95
60	17.59	17.55	0.04	0.24	21.56	13.31	16.45	1.03	0.65	40.57	22.27	1.94
70	17.40	17.36	0.04	0.25	21.35	14.42	17.65	1.04	0.64	41.31	22.19	1.99
80	17.28	17.24	0.04	0.25	21.23	15.38	18.68	1.05	0.63	41.16	22.31	1.98
90	17.18	17.14	0.04	0.24	21.15	16.18	19.47	1.06	0.63	41.50	22.32	2.00
100	17.11	17.06	0.05	0.32	21.10	16.88	20.26	1.07	0.63	42.62	22.20	1.98
200	16.80	16.75	0.05	0.43	20.94	20.38	23.90	1.10	0.63	44.89	22.25	2.04
300	16.70	16.65	0.05	0.56	20.90	20.90	25.27	1.11	0.63	46.35	22.25	1.99
400	16.61	16.57	0.05	0.49	20.85	20.58	25.93	1.11	0.63	46.33	22.17	2.08
500	16.53	16.48	0.05	0.66	20.81	20.11	25.85	1.11	0.64	45.18	22.38	2.11
600	16.44	16.39	0.05	0.89	20.75	19.52	25.12	1.11	0.64	45.33	22.26	2.21
700	16.33	16.29	0.04	1.11	20.68	18.78	24.40	1.11	0.64	44.59	22.42	2.13
800	16.22	16.18	0.04	1.24	20.60	18.01	23.55	1.11	0.65	44.42	22.28	2.15
900	16.09	16.06	0.04	1.13	20.52	17.26	22.67	1.11	0.65	43.12	22.14	2.16
1000	15.96	15.93	0.03	1.15	20.43	16.54	21.57	1.11	0.66	43.95	22.64	2.18
1100	15.83	15.80	0.03	1.20	20.33	15.79	20.57	1.11	0.66	43.78	22.38	2.27
1200	15.67	15.65	0.02	1.15	20.24	15.06	19.55	1.11	0.66	43.97	22.45	2.32
1300	15.52	15.50	0.02	1.20	20.13	14.35	18.57	1.11	0.67	43.09	22.39	2.36
1400	15.35	15.35	0.01	1.28	20.04	13.62	17.62	1.11	0.67	41.20	22.35	2.32
1500	15.17	15.18	0.01	1.18	19.94	12.93	16.69	1.11	0.67	42.30	22.37	2.41
1600	14.98	14.99	0.00	1.14	19.84	12.23	15.84	1.11	0.68	41.76	22.46	2.45
1700	14.78	14.79	0.01	1.20	19.75	11.54	15.00	1.11	0.68	41.34	22.34	2.47
1800	14.57	14.59	0.03	1.20	19.66	10.91	14.20	1.11	0.69	41.40	22.16	2.54
1900	14.36	14.39	0.02	1.32	19.57	10.28	13.52	1.11	0.70	40.36	22.01	2.49
2000	14.15	14.17	0.02	1.38	19.49	9.69	12.83	1.11	0.70	40.51	21.94	2.53
2100	13.92	13.94	0.02	1.53	19.42	9.14	12.17	1.10	0.71	41.58	22.16	2.54
2200	13.68	13.69	0.02	1.55	19.34	8.64	11.64	1.10	0.71	41.98	22.23	2.65
2300	13.43	13.46	0.03	1.60	19.32	8.26	11.20	1.11	0.72	39.31	21.76	2.64
2400	13.18	13.19	0.01	1.70	19.23	7.78	10.62	1.10	0.73	39.23	21.66	2.67
2500	12.94	12.94	0.00	1.77	19.16	7.38	10.21	1.10	0.73	38.78	21.61	2.76
2600	12.67	12.65	0.02	1.90	19.12	7.00	9.73	1.10	0.74	37.48	21.20	2.86
2700	12.41	12.39	0.02	2.00	19.07	6.63	9.32	1.10	0.74	38.45	21.36	2.92
2800	12.14	12.12	0.02	2.11	19.04	6.29	8.90	1.10	0.75	37.31	21.04	3.04
2900	11.84	11.79	0.05	2.22	19.03	5.97	8.52	1.10	0.75	36.74	20.88	3.05
3000	11.56	11.50	0.05	2.40	19.01	5.65	8.12	1.10	0.76	37.36	20.97	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: Vd = 4.75V, Id1(A1) = 131.69mA and Id2 (A2) = 132.39mA @ 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)
50	17.86	17.82	0.04	1.04	21.92	11.92	15.15	1.01	0.67	39.69	21.99	1.83
60	17.55	17.50	0.04	0.25	21.54	13.14	16.39	1.03	0.66	39.76	21.72	1.86
70	17.36	17.32	0.04	0.24	21.33	14.24	17.59	1.04	0.65	40.27	21.64	1.90
80	17.24	17.19	0.05	0.26	21.20	15.18	18.61	1.05	0.64	41.03	21.77	1.92
90	17.14	17.09	0.05	0.24	21.12	16.00	19.40	1.06	0.63	41.20	21.77	1.92
100	17.06	17.01	0.05	0.31	21.06	16.70	20.19	1.07	0.63	42.52	21.66	1.91
200	16.76	16.70	0.05	0.40	20.90	20.15	23.78	1.10	0.63	47.57	21.70	1.97
300	16.65	16.60	0.05	0.54	20.86	20.64	25.12	1.11	0.63	54.62	21.69	1.93
400	16.57	16.51	0.05	0.50	20.81	20.34	25.74	1.11	0.64	48.08	21.64	2.04
500	16.48	16.43	0.05	0.67	20.76	19.88	25.64	1.11	0.64	45.20	21.85	2.03
600	16.39	16.34	0.05	0.85	20.70	19.32	24.90	1.11	0.64	43.46	21.74	2.09
700	16.28	16.23	0.05	1.06	20.62	18.61	24.18	1.11	0.65	45.30	21.90	2.10
800	16.17	16.12	0.04	1.18	20.55	17.86	23.31	1.11	0.65	42.79	21.77	2.10
900	16.04	16.00	0.04	1.07	20.45	17.13	22.44	1.11	0.65	42.15	21.64	2.09
1000	15.91	15.88	0.03	1.09	20.36	16.42	21.34	1.11	0.66	43.04	22.12	2.11
1100	15.77	15.74	0.03	1.13	20.26	15.68	20.33	1.11	0.66	41.54	21.86	2.19
1200	15.62	15.60	0.02	1.06	20.16	14.97	19.31	1.11	0.66	41.33	21.96	2.24
1300	15.46	15.45	0.02	1.12	20.06	14.26	18.34	1.11	0.67	41.36	21.89	2.26
1400	15.29	15.29	0.01	1.18	19.96	13.54	17.39	1.11	0.67	39.64	21.87	2.28
1500	15.11	15.12	0.01	1.08	19.85	12.85	16.46	1.11	0.67	40.03	21.88	2.35
1600	14.92	14.92	0.00	1.04	19.76	12.16	15.61	1.11	0.68	39.61	21.97	2.35
1700	14.72	14.73	0.01	1.09	19.66	11.48	14.78	1.10	0.68	38.69	21.85	2.40
1800	14.50	14.53	0.02	1.07	19.58	10.84	13.98	1.10	0.69	38.60	21.66	2.45
1900	14.30	14.32	0.02	1.20	19.48	10.21	13.30	1.10	0.69	37.99	21.53	2.42
2000	14.08	14.10	0.02	1.23	19.40	9.63	12.61	1.10	0.70	37.69	21.46	2.46
2100	13.85	13.87	0.02	1.36	19.33	9.09	11.96	1.10	0.70	38.88	21.65	2.45
2200	13.60	13.62	0.02	1.39	19.25	8.58	11.44	1.10	0.71	39.17	21.73	2.55
2300	13.35	13.38	0.03	1.45	19.23	8.21	11.00	1.10	0.72	36.91	21.25	2.57
2400	13.10	13.12	0.01	1.55	19.14	7.73	10.43	1.10	0.72	36.43	21.19	2.59
2500	12.86	12.86	0.00	1.59	19.07	7.33	10.02	1.10	0.73	36.29	21.13	2.69
2600	12.59	12.57	0.02	1.73	19.03	6.95	9.54	1.10	0.73	35.09	20.74	2.77
2700	12.33	12.31	0.02	1.84	18.99	6.59	9.14	1.10	0.74	35.71	20.89	2.85
2800	12.05	12.03	0.02	1.95	18.95	6.25	8.73	1.10	0.74	35.00	20.59	2.90
2900	11.75	11.70	0.05	2.06	18.94	5.93	8.35	1.10	0.75	34.36	20.44	2.92
3000	11.46	11.41	0.05	2.23	18.92	5.62	7.95	1.10	0.75	34.93	20.50	2.90

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) = 158.03mA and Id2 (A2) = 158.72mA @ 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)
50	17.93	17.89	0.04	0.98	21.95	12.22	15.21	1.01	0.67	39.74	23.04	2.01
60	17.62	17.58	0.04	0.31	21.58	13.47	16.47	1.03	0.65	40.18	22.77	1.97
70	17.43	17.39	0.04	0.24	21.37	14.58	17.68	1.04	0.64	41.34	22.67	2.05
80	17.31	17.27	0.04	0.26	21.25	15.55	18.72	1.06	0.63	41.22	22.81	2.04
90	17.21	17.17	0.04	0.24	21.17	16.37	19.52	1.06	0.63	42.17	22.81	2.06
100	17.14	17.09	0.05	0.31	21.11	17.09	20.32	1.07	0.63	42.66	22.69	2.04
200	16.83	16.79	0.05	0.44	20.96	20.65	24.05	1.10	0.62	45.92	22.73	2.13
300	16.73	16.68	0.05	0.54	20.92	21.19	25.52	1.11	0.63	46.28	22.73	2.04
400	16.65	16.60	0.05	0.44	20.88	20.84	26.25	1.11	0.63	45.92	22.65	2.15
500	16.56	16.51	0.05	0.61	20.83	20.36	26.19	1.11	0.64	44.82	22.87	2.17
600	16.47	16.43	0.04	0.82	20.78	19.74	25.46	1.11	0.64	43.61	22.72	2.24
700	16.36	16.32	0.04	1.05	20.71	18.99	24.75	1.11	0.64	44.19	22.88	2.20
800	16.25	16.21	0.04	1.16	20.65	18.18	23.89	1.11	0.65	43.09	22.74	2.22
900	16.13	16.10	0.03	1.04	20.57	17.43	23.02	1.11	0.65	43.60	22.60	2.23
1000	16.00	15.97	0.03	1.05	20.48	16.69	21.91	1.12	0.66	44.25	23.10	2.24
1100	15.87	15.84	0.02	1.08	20.39	15.92	20.91	1.11	0.66	44.81	22.82	2.34
1200	15.72	15.70	0.02	1.01	20.30	15.19	19.88	1.12	0.66	44.46	22.90	2.40
1300	15.56	15.55	0.01	1.07	20.20	14.47	18.91	1.11	0.67	43.83	22.83	2.40
1400	15.40	15.39	0.00	1.12	20.12	13.73	17.94	1.12	0.67	42.23	22.78	2.39
1500	15.22	15.23	0.01	1.02	20.02	13.03	17.01	1.11	0.68	42.77	22.81	2.48
1600	15.03	15.04	0.01	0.97	19.93	12.33	16.16	1.11	0.68	43.64	22.91	2.55
1700	14.84	14.85	0.01	1.01	19.84	11.64	15.31	1.11	0.69	43.29	22.75	2.55
1800	14.62	14.65	0.03	1.01	19.76	10.99	14.50	1.12	0.69	44.08	22.59	2.61
1900	14.42	14.45	0.03	1.13	19.67	10.36	13.81	1.11	0.70	42.28	22.42	2.59
2000	14.21	14.24	0.03	1.18	19.58	9.76	13.11	1.11	0.71	42.62	22.36	2.62
2100	13.99	14.01	0.02	1.31	19.51	9.21	12.45	1.11	0.71	43.83	22.60	2.65
2200	13.75	13.77	0.02	1.33	19.44	8.70	11.91	1.11	0.72	46.75	22.67	2.75
2300	13.50	13.53	0.03	1.35	19.42	8.32	11.46	1.12	0.73	42.86	22.17	2.74
2400	13.26	13.27	0.02	1.46	19.33	7.84	10.88	1.11	0.73	41.93	22.06	2.75
2500	13.02	13.02	0.00	1.48	19.26	7.43	10.46	1.11	0.74	42.51	22.00	2.85
2600	12.75	12.74	0.01	1.60	19.22	7.04	9.98	1.11	0.74	40.43	21.59	2.96
2700	12.50	12.49	0.02	1.69	19.17	6.68	9.56	1.11	0.75	41.87	21.74	3.03
2800	12.23	12.21	0.02	1.78	19.14	6.33	9.14	1.11	0.76	40.50	21.45	3.16
2900	11.94	11.89	0.05	1.88	19.12	6.01	8.75	1.11	0.76	40.28	21.28	3.11
3000	11.65	11.61	0.05	2.05	19.10	5.69	8.34	1.11	0.77	40.80	21.38	3.15