

Typical Performance Data

Full 2-Port Extension

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, Ve = 5V, Id = 82mA @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)
200	18.64	31.15	7.90	7.97	1.70	0.88	30.78	19.06	1.96
300	21.74	27.84	12.88	11.28	1.17	0.69	32.18	20.31	1.53
400	22.27	27.18	15.99	12.50	1.12	0.62	33.06	20.76	1.44
500	22.39	26.99	17.02	12.71	1.11	0.59	34.01	20.90	1.38
600	22.42	26.90	17.19	12.85	1.10	0.58	35.08	20.97	1.33
700	22.42	26.85	17.30	13.08	1.10	0.58	36.17	21.01	1.27
800	22.41	26.80	17.53	13.40	1.10	0.58	36.16	21.03	1.20
900	22.38	26.78	17.88	13.80	1.10	0.59	36.30	21.01	1.16
1000	22.35	26.75	18.32	14.25	1.11	0.59	36.35	21.03	1.17
1200	22.27	26.70	19.33	15.29	1.11	0.61	36.11	20.96	1.17
1400	22.17	26.66	20.27	16.49	1.12	0.62	35.76	20.87	1.21
1600	22.05	26.63	21.10	17.79	1.13	0.64	35.39	20.79	1.27
1800	21.91	26.61	21.76	18.97	1.13	0.66	35.17	20.69	1.29
2000	21.76	26.59	21.94	19.94	1.14	0.67	34.98	20.67	1.33
2200	21.60	26.59	21.62	20.62	1.15	0.69	34.89	20.52	1.31
2400	21.42	26.62	21.18	20.56	1.16	0.71	34.93	20.28	1.30
2600	21.23	26.63	20.53	19.66	1.17	0.72	34.51	20.06	1.38
2800	21.04	26.66	19.34	18.41	1.18	0.73	34.03	19.78	1.44
3000	20.82	26.69	17.72	16.88	1.19	0.75	33.75	19.44	1.45
3200	20.60	26.74	16.12	15.21	1.20	0.75	33.41	19.34	1.51
3400	20.36	26.83	14.72	13.65	1.22	0.76	33.00	19.32	1.51
3600	20.11	26.93	13.44	12.31	1.23	0.76	32.81	19.38	1.54
3800	19.85	27.06	12.33	11.19	1.25	0.76	32.45	19.40	1.53
4000	19.57	27.22	11.47	10.23	1.27	0.76	32.23	19.58	1.58
4200	19.33	27.34	10.90	9.45	1.29	0.75	31.90	19.56	1.66
4400	19.11	27.42	10.58	8.88	1.30	0.74	31.43	19.53	1.61
4800	18.67	27.66	10.49	8.08	1.35	0.73	30.79	19.21	1.66
5000	18.45	27.81	10.66	7.76	1.38	0.72	30.46	18.92	1.71
5200	18.20	28.06	11.03	7.49	1.43	0.72	29.95	18.37	1.73
5400	17.90	28.42	11.46	7.20	1.50	0.73	29.69	17.79	1.84
5600	17.57	28.91	12.01	7.02	1.59	0.74	29.36	17.21	1.87
5800	17.37	29.20	13.24	6.93	1.65	0.75	29.02	16.79	1.98
6000	17.16	29.32	14.09	6.54	1.67	0.73	28.67	16.73	2.14

Typical Performance Data

Full 2-Port Extension

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, Ve = 5V, Id = 81mA @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)
200	18.60	31.13	7.88	7.85	1.69	0.87	30.91	18.44	1.95
300	21.71	27.81	12.86	11.15	1.16	0.69	31.86	19.79	1.52
400	22.24	27.16	16.00	12.37	1.12	0.62	32.73	20.32	1.43
500	22.36	26.95	17.07	12.59	1.10	0.59	33.98	20.50	1.37
600	22.39	26.86	17.26	12.74	1.10	0.58	34.88	20.56	1.33
700	22.39	26.80	17.36	12.97	1.10	0.58	35.67	20.60	1.26
800	22.38	26.75	17.58	13.29	1.10	0.58	35.83	20.64	1.20
900	22.35	26.72	17.92	13.69	1.10	0.58	36.10	20.66	1.15
1000	22.32	26.68	18.33	14.14	1.10	0.59	36.04	20.66	1.15
1200	22.23	26.63	19.28	15.18	1.11	0.60	36.12	20.61	1.15
1400	22.13	26.61	20.11	16.39	1.12	0.62	36.10	20.55	1.20
1600	22.01	26.59	20.82	17.66	1.12	0.64	35.72	20.47	1.25
1800	21.87	26.56	21.36	18.80	1.13	0.65	35.32	20.40	1.27
2000	21.72	26.54	21.47	19.74	1.14	0.67	35.24	20.36	1.28
2200	21.55	26.55	21.12	20.36	1.15	0.69	35.00	20.23	1.30
2400	21.37	26.57	20.71	20.26	1.16	0.71	34.96	19.96	1.29
2600	21.19	26.57	20.14	19.36	1.17	0.72	35.13	19.72	1.37
2800	20.98	26.61	19.04	18.13	1.18	0.73	34.85	19.47	1.41
3000	20.77	26.66	17.52	16.64	1.19	0.75	34.58	19.15	1.45
3200	20.54	26.73	16.02	15.02	1.20	0.76	34.34	19.05	1.48
3400	20.30	26.81	14.68	13.48	1.22	0.76	33.91	19.03	1.51
3600	20.05	26.91	13.45	12.17	1.23	0.76	33.60	19.09	1.51
3800	19.79	27.03	12.36	11.08	1.25	0.76	32.62	19.12	1.53
4000	19.51	27.17	11.52	10.13	1.27	0.76	32.40	19.34	1.58
4200	19.27	27.30	10.98	9.35	1.28	0.75	32.10	19.28	1.64
4400	19.06	27.41	10.68	8.79	1.30	0.74	31.79	19.26	1.58
4800	18.61	27.61	10.63	7.99	1.35	0.72	30.98	19.00	1.63
5000	18.39	27.75	10.81	7.67	1.38	0.72	30.49	18.76	1.69
5200	18.14	27.99	11.20	7.39	1.43	0.72	30.10	18.31	1.70
5400	17.84	28.35	11.65	7.11	1.49	0.72	29.73	17.76	1.82
5600	17.50	28.86	12.20	6.92	1.58	0.74	29.25	17.14	1.84
5800	17.31	29.16	13.41	6.83	1.64	0.75	28.78	16.69	1.97
6000	17.09	29.30	14.24	6.45	1.67	0.73	28.36	16.64	2.16

Typical Performance Data

Full 2-Port Extension

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, Ve = 5V, Id = 83mA @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)
200	18.61	31.24	7.90	8.18	1.73	0.89	30.69	19.59	2.00
300	21.71	27.93	12.88	11.52	1.18	0.71	31.49	20.77	1.55
400	22.24	27.30	15.96	12.75	1.13	0.63	32.63	21.13	1.45
500	22.36	27.11	16.95	12.97	1.12	0.61	33.44	21.25	1.40
600	22.39	27.02	17.10	13.12	1.11	0.60	34.36	21.29	1.35
700	22.39	26.96	17.20	13.35	1.11	0.59	35.61	21.31	1.28
800	22.38	26.92	17.44	13.68	1.11	0.60	35.75	21.33	1.22
900	22.35	26.88	17.81	14.08	1.11	0.60	35.70	21.34	1.18
1000	22.32	26.85	18.27	14.54	1.12	0.61	35.88	21.34	1.18
1200	22.24	26.80	19.35	15.60	1.12	0.62	35.82	21.29	1.19
1400	22.14	26.76	20.41	16.83	1.13	0.63	35.66	21.20	1.23
1600	22.03	26.73	21.39	18.16	1.13	0.65	35.70	21.10	1.28
1800	21.90	26.71	22.20	19.37	1.14	0.66	35.31	21.02	1.31
2000	21.75	26.70	22.51	20.40	1.15	0.68	35.13	20.96	1.32
2200	21.59	26.69	22.22	21.14	1.16	0.69	34.86	20.82	1.32
2400	21.42	26.67	21.76	21.11	1.17	0.71	34.86	20.55	1.31
2600	21.23	26.70	21.01	20.18	1.18	0.72	34.49	20.34	1.40
2800	21.04	26.75	19.68	18.85	1.19	0.74	34.36	20.03	1.45
3000	20.83	26.80	17.94	17.25	1.20	0.75	33.96	19.72	1.48
3200	20.60	26.85	16.25	15.51	1.22	0.76	33.59	19.58	1.53
3400	20.37	26.92	14.77	13.89	1.23	0.76	33.17	19.56	1.53
3600	20.12	27.02	13.45	12.52	1.24	0.77	32.80	19.62	1.55
3800	19.86	27.13	12.31	11.38	1.26	0.77	32.40	19.64	1.57
4000	19.58	27.29	11.42	10.40	1.28	0.76	32.25	19.83	1.62
4200	19.34	27.41	10.83	9.61	1.30	0.76	31.97	19.78	1.67
4400	19.12	27.52	10.50	9.04	1.32	0.75	31.61	19.74	1.64
4800	18.67	27.75	10.37	8.25	1.37	0.74	31.05	19.37	1.67
5000	18.45	27.91	10.52	7.94	1.40	0.73	30.62	19.04	1.73
5200	18.20	28.17	10.87	7.67	1.45	0.73	30.13	18.47	1.74
5400	17.90	28.52	11.30	7.38	1.52	0.74	29.63	17.87	1.85
5600	17.57	29.02	11.87	7.20	1.62	0.75	29.34	17.29	1.89
5800	17.38	29.33	13.13	7.11	1.68	0.76	29.01	16.85	2.01
6000	17.17	29.43	14.00	6.71	1.70	0.74	28.69	16.80	2.15

Typical Performance Data

Without Full 2-Port Extension

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, Ve = 5V, Id = 82mA @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)
200	18.69	31.16	7.87	7.88	1.69	0.87	30.78	19.06	1.96
300	21.79	27.83	12.84	11.19	1.16	0.69	32.18	20.31	1.53
400	22.31	27.19	15.93	12.40	1.11	0.61	33.06	20.76	1.44
500	22.43	26.98	16.93	12.61	1.10	0.58	34.01	20.90	1.38
600	22.46	26.89	17.09	12.75	1.10	0.57	35.08	20.97	1.33
700	22.45	26.84	17.19	12.98	1.10	0.57	36.17	21.01	1.27
800	22.43	26.79	17.42	13.30	1.10	0.58	36.16	21.03	1.20
900	22.41	26.76	17.77	13.71	1.10	0.58	36.30	21.01	1.16
1000	22.37	26.73	18.21	14.16	1.10	0.59	36.35	21.03	1.17
1200	22.28	26.69	19.24	15.20	1.11	0.60	36.11	20.96	1.17
1400	22.18	26.66	20.21	16.40	1.12	0.62	35.76	20.87	1.21
1600	22.05	26.64	21.08	17.68	1.13	0.64	35.39	20.79	1.27
1800	21.92	26.63	21.79	18.85	1.13	0.66	35.17	20.69	1.29
2000	21.76	26.61	22.02	19.84	1.14	0.67	34.98	20.67	1.33
2200	21.59	26.61	21.75	20.53	1.15	0.69	34.89	20.52	1.31
2400	21.41	26.62	21.35	20.52	1.16	0.71	34.93	20.28	1.30
2600	21.22	26.65	20.72	19.68	1.17	0.72	34.51	20.06	1.38
2800	21.02	26.66	19.51	18.46	1.18	0.73	34.03	19.78	1.44
3000	20.80	26.73	17.87	16.96	1.20	0.75	33.75	19.44	1.45
3200	20.57	26.80	16.27	15.30	1.21	0.76	33.41	19.34	1.51
3400	20.33	26.87	14.84	13.74	1.22	0.76	33.00	19.32	1.51
3600	20.08	26.98	13.55	12.41	1.24	0.77	32.81	19.38	1.54
3800	19.81	27.11	12.43	11.29	1.26	0.77	32.45	19.40	1.53
4000	19.54	27.26	11.56	10.32	1.28	0.76	32.23	19.58	1.58
4200	19.29	27.39	10.98	9.54	1.30	0.76	31.90	19.56	1.66
4400	19.07	27.48	10.67	8.98	1.32	0.75	31.43	19.53	1.61
4800	18.62	27.72	10.58	8.18	1.37	0.74	30.79	19.21	1.66
5000	18.39	27.87	10.75	7.87	1.40	0.73	30.46	18.92	1.71
5200	18.14	28.12	11.12	7.59	1.45	0.73	29.95	18.37	1.73
5400	17.84	28.48	11.56	7.31	1.52	0.74	29.69	17.79	1.84
5600	17.50	28.98	12.12	7.13	1.62	0.75	29.36	17.21	1.87
5800	17.31	29.29	13.37	7.04	1.68	0.76	29.02	16.79	1.98
6000	17.09	29.41	14.23	6.65	1.71	0.74	28.67	16.73	2.14

Typical Performance Data

Without Full 2-Port Extension

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, Ve = 5V, Id = 81mA @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)
200	18.66	31.05	7.85	7.81	1.67	0.87	30.91	18.44	1.95
300	21.76	27.74	12.82	11.10	1.15	0.68	31.86	19.79	1.52
400	22.28	27.10	15.92	12.31	1.11	0.61	32.73	20.32	1.43
500	22.40	26.91	16.95	12.53	1.10	0.58	33.98	20.50	1.37
600	22.43	26.81	17.11	12.68	1.10	0.57	34.88	20.56	1.33
700	22.43	26.76	17.21	12.91	1.10	0.57	35.67	20.60	1.26
800	22.41	26.72	17.43	13.23	1.10	0.57	35.83	20.64	1.20
900	22.38	26.69	17.77	13.64	1.10	0.58	36.10	20.66	1.15
1000	22.34	26.65	18.19	14.09	1.10	0.58	36.04	20.66	1.15
1200	22.25	26.61	19.15	15.13	1.11	0.60	36.12	20.61	1.15
1400	22.15	26.60	20.04	16.33	1.11	0.62	36.10	20.55	1.20
1600	22.02	26.57	20.81	17.60	1.12	0.64	35.72	20.47	1.25
1800	21.88	26.57	21.41	18.74	1.13	0.65	35.32	20.40	1.27
2000	21.72	26.56	21.59	19.68	1.14	0.67	35.24	20.36	1.28
2200	21.55	26.56	21.30	20.32	1.15	0.69	35.00	20.23	1.30
2400	21.37	26.57	20.95	20.25	1.16	0.71	34.96	19.96	1.29
2600	21.18	26.60	20.39	19.37	1.17	0.72	35.13	19.72	1.37
2800	20.97	26.64	19.28	18.17	1.18	0.74	34.85	19.47	1.41
3000	20.75	26.68	17.74	16.70	1.19	0.75	34.58	19.15	1.45
3200	20.52	26.77	16.22	15.09	1.21	0.76	34.34	19.05	1.48
3400	20.28	26.84	14.85	13.56	1.22	0.76	33.91	19.03	1.51
3600	20.02	26.94	13.59	12.26	1.24	0.77	33.60	19.09	1.51
3800	19.76	27.05	12.49	11.16	1.25	0.76	32.62	19.12	1.53
4000	19.48	27.22	11.64	10.21	1.28	0.76	32.40	19.34	1.58
4200	19.24	27.34	11.09	9.44	1.30	0.75	32.10	19.28	1.64
4400	19.02	27.45	10.79	8.88	1.32	0.74	31.79	19.26	1.58
4800	18.57	27.67	10.73	8.09	1.37	0.73	30.98	19.00	1.63
5000	18.34	27.82	10.92	7.77	1.40	0.73	30.49	18.76	1.69
5200	18.09	28.06	11.31	7.49	1.45	0.73	30.10	18.31	1.70
5400	17.78	28.41	11.76	7.21	1.51	0.73	29.73	17.76	1.82
5600	17.44	28.92	12.32	7.03	1.61	0.74	29.25	17.14	1.84
5800	17.25	29.25	13.56	6.94	1.68	0.75	28.78	16.69	1.97
6000	17.02	29.36	14.42	6.56	1.70	0.74	28.36	16.64	2.16

Typical Performance Data

Without Full 2-Port Extension

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, Ve = 5V, Id = 83mA @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)
200	18.66	31.19	7.86	8.11	1.71	0.88	30.69	19.59	2.00
300	21.76	27.92	12.82	11.47	1.17	0.70	31.49	20.77	1.55
400	22.28	27.28	15.89	12.70	1.12	0.63	32.63	21.13	1.45
500	22.40	27.07	16.88	12.92	1.11	0.60	33.44	21.25	1.40
600	22.43	26.98	17.02	13.06	1.11	0.59	34.36	21.29	1.35
700	22.42	26.93	17.13	13.30	1.11	0.59	35.61	21.31	1.28
800	22.40	26.90	17.37	13.63	1.11	0.59	35.75	21.33	1.22
900	22.38	26.87	17.74	14.04	1.11	0.60	35.70	21.34	1.18
1000	22.34	26.84	18.20	14.50	1.11	0.60	35.88	21.34	1.18
1200	22.26	26.79	19.29	15.56	1.12	0.62	35.82	21.29	1.19
1400	22.15	26.76	20.37	16.78	1.13	0.63	35.66	21.20	1.23
1600	22.03	26.72	21.38	18.11	1.13	0.65	35.70	21.10	1.28
1800	21.90	26.70	22.21	19.32	1.14	0.66	35.31	21.02	1.31
2000	21.75	26.70	22.54	20.37	1.15	0.68	35.13	20.96	1.32
2200	21.58	26.70	22.28	21.12	1.16	0.70	34.86	20.82	1.32
2400	21.40	26.70	21.83	21.11	1.17	0.71	34.86	20.55	1.31
2600	21.22	26.74	21.12	20.20	1.18	0.73	34.49	20.34	1.40
2800	21.02	26.76	19.79	18.90	1.20	0.74	34.36	20.03	1.45
3000	20.80	26.82	18.03	17.31	1.21	0.75	33.96	19.72	1.48
3200	20.58	26.88	16.33	15.58	1.22	0.76	33.59	19.58	1.53
3400	20.34	26.96	14.85	13.96	1.23	0.77	33.17	19.56	1.53
3600	20.08	27.05	13.52	12.59	1.25	0.77	32.80	19.62	1.55
3800	19.82	27.17	12.38	11.46	1.27	0.77	32.40	19.64	1.57
4000	19.54	27.34	11.49	10.48	1.29	0.77	32.25	19.83	1.62
4200	19.29	27.45	10.90	9.69	1.31	0.76	31.97	19.78	1.67
4400	19.07	27.58	10.57	9.12	1.33	0.76	31.61	19.74	1.64
4800	18.62	27.83	10.44	8.34	1.39	0.75	31.05	19.37	1.67
5000	18.39	27.98	10.60	8.03	1.42	0.74	30.62	19.04	1.73
5200	18.14	28.24	10.95	7.76	1.47	0.74	30.13	18.47	1.74
5400	17.83	28.59	11.39	7.48	1.55	0.75	29.63	17.87	1.85
5600	17.50	29.11	11.95	7.30	1.65	0.76	29.34	17.29	1.89
5800	17.31	29.41	13.23	7.21	1.72	0.77	29.01	16.85	2.01
6000	17.09	29.54	14.10	6.81	1.74	0.75	28.69	16.80	2.15