

Directional Coupler

ADC-12-4-75+

Typical Performance Data

TEST CONDITIONS: INPUT POWER =0 dBm @Temperature = +25°C

FREQUENCY (MHz)	INSERTION LOSS (dB)	COUPLING LOSS (dB)	DIRECTIVITY (dB)	RETURN LOSS (dB)		
				IN	OUT	CPL
10	0.80	12.66	31.31	20.58	26.31	20.52
15	0.77	12.62	30.98	21.28	28.95	21.16
20	0.76	12.60	30.68	21.73	30.91	21.59
25	0.75	12.59	30.40	21.94	32.21	21.81
50	0.77	12.58	29.43	22.10	33.00	22.04
75	0.79	12.59	28.91	22.09	31.97	22.12
100	0.80	12.61	28.41	22.09	30.80	22.23
150	0.82	12.62	27.35	22.01	28.61	22.52
175	0.82	12.64	26.52	21.91	27.60	22.73
200	0.82	12.63	26.10	21.81	26.62	22.94
225	0.83	12.63	25.53	21.68	25.77	23.19
250	0.83	12.63	25.02	21.57	25.02	23.47
275	0.83	12.64	24.38	21.40	24.30	23.78
300	0.83	12.63	23.95	21.27	23.64	24.12
350	0.84	12.63	22.97	20.93	22.62	24.94
375	0.84	12.63	22.61	20.79	22.23	25.37
400	0.84	12.63	22.25	20.66	21.80	25.81
425	0.85	12.63	21.84	20.54	21.36	26.31
450	0.85	12.63	21.43	20.39	21.00	26.82
500	0.87	12.64	20.65	20.29	20.54	27.93
550	0.87	12.63	20.00	20.03	20.10	28.91
600	0.89	12.62	19.47	19.95	19.79	29.65
650	0.91	12.63	19.15	19.94	19.61	29.93
700	0.93	12.62	19.07	20.04	19.60	29.43
750	0.94	12.61	19.04	20.18	19.59	28.50
800	0.95	12.60	19.02	20.45	19.66	27.18
850	0.97	12.59	18.99	20.77	19.88	25.93
900	0.99	12.57	19.05	21.17	20.21	24.65
950	1.02	12.58	19.54	21.59	20.43	23.40
975	1.01	12.53	19.98	21.88	20.48	22.95
1000	1.03	12.53	20.29	22.11	20.55	22.45
1050	1.05	12.50	21.49	22.60	20.76	21.46
1100	1.07	12.49	22.00	22.98	20.86	20.58
1150	1.08	12.47	22.11	23.26	20.83	19.78
1200	1.11	12.48	21.76	23.37	20.64	18.99
1250	1.13	12.48	20.40	23.32	20.34	18.31
1300	1.17	12.50	19.39	23.09	20.13	17.60
1400	1.22	12.49	16.49	22.27	19.47	16.35
1500	1.27	12.50	14.92	20.95	18.81	15.18
1600	1.38	12.56	13.22	19.40	18.13	14.13
1700	1.57	12.69	12.73	17.87	17.54	13.14
1800	1.85	12.79	12.88	16.31	16.81	12.26
1900	2.18	12.91	13.98	15.07	16.23	11.47
2000	2.58	12.93	15.81	13.86	15.34	10.79
2100	2.83	13.03	18.61	12.75	14.24	10.24
2200	3.01	13.14	25.20	11.68	12.97	9.74
2300	3.14	13.49	30.85	10.79	11.70	9.31
2400	3.35	14.03	25.88	10.15	10.86	8.90
2500	3.92	14.89	20.74	9.71	10.13	8.46
2600	4.77	15.86	13.32	9.24	9.76	7.97
2700	6.31	17.01	8.40	8.67	9.40	7.47
2800	7.98	18.12	4.99	8.15	9.49	6.92
2900	9.63	17.92	2.64	7.67	10.13	6.32
3000	11.63	17.38	1.50	7.19	11.63	5.77

REV. X1
ADC-12-4-75+
081007
Page 1 of 3



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Directional Coupler

ADC-12-4-75+

Typical Performance Data

TEST CONDITIONS: INPUT POWER =0 dBm @Temperature = -40°C

FREQUENCY (MHz)	INSERTION LOSS (dB)	COUPLING LOSS (dB)	DIRECTIVITY (dB)	RETURN LOSS (dB)		
				IN	OUT	CPL
10	0.67	12.37	27.13	22.18	30.00	22.12
15	0.65	12.37	27.33	22.90	34.67	22.81
20	0.64	12.37	27.47	23.42	38.36	23.24
25	0.64	12.38	27.57	23.74	41.06	23.42
50	0.66	12.40	27.63	25.03	41.21	23.73
75	0.67	12.42	27.42	25.05	46.42	24.10
100	0.67	12.43	27.08	23.88	38.97	24.50
150	0.68	12.44	26.29	23.35	29.90	25.15
175	0.68	12.45	25.65	23.71	29.68	25.26
200	0.69	12.45	25.36	23.26	29.64	25.26
225	0.69	12.45	24.90	22.42	27.93	25.09
250	0.69	12.45	24.44	21.99	25.89	24.92
275	0.69	12.45	23.92	21.96	24.76	24.75
300	0.69	12.45	23.61	21.95	24.38	24.63
350	0.69	12.44	22.76	20.83	23.01	24.71
375	0.70	12.44	22.47	20.46	22.17	24.87
400	0.70	12.43	22.14	20.30	21.64	25.13
425	0.70	12.43	21.76	20.08	21.24	25.50
450	0.71	12.43	21.42	19.69	20.73	25.93
500	0.72	12.43	20.76	19.35	19.75	27.01
550	0.73	12.42	20.09	18.88	19.10	28.27
600	0.74	12.42	19.61	18.69	18.44	29.73
650	0.76	12.41	19.39	18.83	18.19	31.37
700	0.78	12.40	19.33	18.77	17.98	32.53
750	0.79	12.38	19.40	19.37	18.02	32.06
800	0.79	12.37	19.53	20.11	18.20	29.47
850	0.81	12.35	19.60	20.75	18.54	26.86
900	0.82	12.33	19.84	21.97	19.00	24.55
950	0.84	12.33	20.47	23.35	19.46	22.65
975	0.83	12.29	21.15	24.06	19.85	21.96
1000	0.84	12.29	21.68	24.40	20.29	21.25
1050	0.85	12.27	23.48	25.30	20.90	20.03
1100	0.86	12.26	24.48	25.50	21.70	18.99
1150	0.87	12.25	24.90	23.95	22.56	18.15
1200	0.89	12.26	23.96	22.76	23.02	17.38
1250	0.91	12.27	21.68	21.18	23.76	16.79
1300	0.94	12.29	20.06	19.56	23.98	16.25
1400	0.96	12.31	16.36	18.31	24.38	15.45
1500	1.00	12.31	14.57	17.78	21.71	14.76
1600	1.09	12.38	12.97	17.87	18.31	14.12
1700	1.29	12.52	12.51	17.80	15.11	13.41
1800	1.61	12.65	12.86	17.78	12.87	12.65
1900	1.94	12.79	14.13	18.38	11.94	11.76
2000	2.33	12.82	16.40	17.59	11.79	10.82
2100	2.51	12.89	19.59	15.58	12.69	9.98
2200	2.61	13.08	27.82	12.29	15.01	9.24
2300	2.67	13.48	31.12	9.48	15.66	8.68
2400	2.91	14.08	26.18	7.59	14.67	8.28
2500	3.53	15.08	21.52	6.44	11.19	8.01
2600	4.48	16.14	13.49	6.13	8.47	7.78
2700	6.12	17.37	8.01	5.76	6.33	7.56
2800	8.06	18.57	4.57	6.32	5.50	7.24
2900	9.68	18.16	2.28	7.44	6.50	6.70
3000	11.81	17.50	1.23	9.60	8.49	6.04

REV. X1
ADC-12-4-75+
081007
Page 2 of 3



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Directional Coupler

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Typical Performance Data

TEST CONDITIONS: INPUT POWER =0 dBm @Temperature = +85°C

FREQUENCY (MHz)	INSERTION LOSS (dB)	COUPLING LOSS (dB)	DIRECTIVITY (dB)	RETURN LOSS (dB)		
				IN	OUT	CPL
10	0.85	12.72	31.67	20.32	25.96	20.36
15	0.83	12.69	31.31	20.75	27.65	20.86
20	0.83	12.68	30.91	20.96	28.69	21.15
25	0.83	12.67	30.50	20.95	29.09	21.25
50	0.87	12.69	29.55	20.29	27.67	21.15
75	0.89	12.71	29.08	20.22	26.68	21.12
100	0.91	12.72	28.58	20.80	26.81	21.10
150	0.92	12.74	27.48	21.25	27.27	21.27
175	0.93	12.75	26.52	20.88	26.06	21.54
200	0.93	12.75	26.09	20.82	24.83	21.86
225	0.93	12.75	25.51	21.13	24.29	22.30
250	0.93	12.76	24.96	21.50	24.17	22.81
275	0.93	12.76	24.30	21.50	23.98	23.39
300	0.93	12.76	23.80	21.32	23.55	23.98
350	0.93	12.77	22.78	21.21	22.44	25.38
375	0.94	12.77	22.46	21.41	22.21	26.02
400	0.94	12.77	22.06	21.58	22.01	26.66
425	0.95	12.77	21.58	21.59	21.82	27.30
450	0.95	12.78	21.22	21.41	21.61	27.78
500	0.97	12.80	20.39	21.45	21.41	28.48
550	0.97	12.79	19.72	21.40	21.14	28.59
600	0.99	12.80	19.15	21.15	20.94	28.27
650	1.01	12.81	18.82	21.12	20.88	27.79
700	1.04	12.82	18.65	21.05	20.94	27.10
750	1.06	12.81	18.59	20.91	20.86	26.46
800	1.07	12.80	18.56	21.00	20.86	25.80
850	1.10	12.80	18.47	20.93	20.97	25.23
900	1.13	12.79	18.47	20.98	20.99	24.58
950	1.16	12.80	18.74	20.99	20.92	23.92
975	1.16	12.75	19.16	21.17	20.88	23.67
1000	1.18	12.76	19.39	21.35	20.79	23.35
1050	1.20	12.73	20.34	21.73	20.60	22.64
1100	1.23	12.72	20.62	22.21	20.45	21.94
1150	1.25	12.71	20.57	22.98	20.21	21.23
1200	1.28	12.71	20.16	23.60	19.73	20.39
1250	1.32	12.71	18.98	24.53	19.24	19.62
1300	1.37	12.72	18.11	24.87	18.87	18.75
1400	1.43	12.69	15.58	25.22	18.23	17.20
1500	1.51	12.69	14.16	23.20	17.84	15.67
1600	1.63	12.73	12.57	20.29	17.85	14.37
1700	1.84	12.84	12.08	17.81	18.30	13.22
1800	2.12	12.90	12.15	15.83	18.47	12.34
1900	2.45	13.01	13.07	14.44	18.26	11.70
2000	2.84	13.02	14.81	13.44	16.46	11.28
2100	3.10	13.11	17.04	12.72	14.20	11.05
2200	3.27	13.22	22.10	12.17	12.22	10.79
2300	3.42	13.52	27.29	11.88	10.76	10.46
2400	3.61	13.97	32.36	11.78	10.03	9.92
2500	4.12	14.65	30.74	11.58	9.84	9.21
2600	4.92	15.46	20.23	11.01	10.10	8.45
2700	6.36	16.47	12.49	10.15	10.30	7.75
2800	7.90	17.54	8.11	9.10	10.55	7.14
2900	9.45	17.63	4.68	8.19	10.61	6.63
3000	11.20	17.47	2.64	7.50	11.08	6.22

REV. X1
ADC-12-4-75+
081007
Page 3 of 3



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