

# Directional Coupler

# ADC-10-4

## 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
5	0.73	10.45	39.49	22.96	30.01	20.21
10	0.72	10.44	41.58	23.49	31.11	20.71
15	0.71	10.43	43.27	23.91	31.98	21.09
20	0.71	10.44	43.73	23.98	32.18	21.12
25	0.71	10.44	44.19	24.00	32.28	21.12
50	0.73	10.47	46.29	23.98	31.76	20.95
75	0.74	10.50	47.98	23.90	30.85	20.66
100	0.75	10.52	51.02	23.74	29.87	20.29
150	0.78	10.57	52.31	23.23	28.04	19.35
200	0.79	10.62	43.84	22.59	26.52	18.33
250	0.81	10.68	38.92	21.90	25.26	17.33
300	0.82	10.73	34.95	21.24	24.15	16.40
350	0.83	10.78	31.90	20.63	23.22	15.57
400	0.85	10.83	29.43	20.08	22.40	14.84
450	0.87	10.89	27.33	19.60	21.64	14.18
475	0.87	10.92	26.34	19.38	21.30	13.88
500	0.89	10.94	25.53	19.19	20.98	13.59
550	0.91	11.00	23.72	18.86	20.43	13.10
575	0.91	11.01	23.12	18.66	20.18	12.85
600	0.92	11.03	22.39	18.53	19.92	12.63
650	0.94	11.09	20.98	18.27	19.43	12.24
700	0.97	11.12	19.79	18.06	19.06	11.89
750	1.00	11.16	18.67	17.93	18.71	11.60
800	1.02	11.18	17.70	17.82	18.42	11.33
850	1.05	11.21	16.72	17.79	18.19	11.11
900	1.08	11.22	15.83	17.78	17.99	10.91
925	1.10	11.23	15.42	17.80	17.92	10.83
950	1.13	11.23	15.05	17.84	17.84	10.75
1000	1.17	11.24	14.27	17.91	17.72	10.60
1025	1.20	11.24	13.89	18.00	17.72	10.55
1050	1.22	11.23	13.59	18.05	17.68	10.49
1100	1.27	11.24	12.85	18.24	17.65	10.39
1150	1.33	11.22	12.27	18.37	17.69	10.32
1200	1.41	11.21	11.67	18.56	17.82	10.25
1250	1.49	11.20	11.14	18.68	18.02	10.20
1300	1.59	11.21	10.57	18.75	18.33	10.15
1350	1.72	11.20	10.15	18.64	18.74	10.09
1400	1.85	11.22	9.71	18.32	19.26	10.04
1450	2.01	11.25	9.28	17.76	19.88	9.99
1500	2.21	11.31	8.90	17.00	20.63	9.91
1600	2.71	11.55	8.21	14.99	22.09	9.69
1700	3.34	11.96	7.70	12.85	21.92	9.36
1800	4.07	12.62	7.32	10.97	19.58	8.96
1900	4.80	13.49	7.22	9.43	16.78	8.55
2000	5.41	14.55	7.42	8.34	14.55	8.24
2100	5.81	15.69	8.01	7.54	12.92	8.06
2200	6.01	16.81	9.05	7.01	11.73	8.04
2300	6.12	17.83	10.57	6.65	10.88	8.17
2400	6.17	18.80	12.54	6.40	10.23	8.38
2500	6.22	19.62	14.74	6.22	9.78	8.72
2750	6.38	20.95	15.97	5.97	9.12	9.83
3000	6.66	20.59	13.23	5.80	8.97	10.57
3250	7.08	19.03	8.83	5.58	9.27	10.37
3500	7.64	17.67	4.58	5.33	10.33	9.57

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# Directional Coupler

# ADC-10-4

## 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
5	0.90	10.63	35.17	19.79	24.55	17.32
10	0.80	10.53	37.45	21.47	27.15	18.85
15	0.73	10.45	39.27	22.85	29.29	20.10
20	0.71	10.44	39.74	23.35	30.04	20.51
25	0.70	10.43	39.93	23.69	30.48	20.80
50	0.69	10.43	39.48	24.24	29.97	21.13
75	0.68	10.45	39.83	24.21	28.58	21.06
100	0.68	10.47	41.97	23.89	27.51	20.78
150	0.70	10.51	48.43	23.52	26.69	19.75
200	0.71	10.54	52.85	22.86	25.53	18.49
250	0.72	10.58	45.84	21.82	24.17	17.34
300	0.73	10.62	38.14	21.26	23.44	16.36
350	0.74	10.66	34.39	20.48	22.49	15.49
400	0.76	10.71	30.83	19.79	21.64	14.72
450	0.77	10.76	28.39	19.40	21.07	14.01
475	0.78	10.79	27.43	19.16	20.75	13.69
500	0.79	10.81	26.57	18.89	20.39	13.39
550	0.81	10.86	24.61	18.51	19.83	12.87
575	0.81	10.87	23.88	18.32	19.61	12.63
600	0.82	10.89	23.13	18.19	19.36	12.40
650	0.84	10.93	21.69	17.90	18.88	12.00
700	0.86	10.97	20.40	17.67	18.51	11.64
750	0.88	11.01	19.24	17.51	18.14	11.33
800	0.90	11.02	18.25	17.39	17.85	11.05
850	0.93	11.04	17.31	17.27	17.57	10.81
900	0.96	11.05	16.34	17.07	17.22	10.61
925	0.97	11.06	15.85	17.04	17.12	10.52
950	0.99	11.06	15.43	17.10	17.06	10.43
1000	1.03	11.06	14.60	17.24	16.98	10.26
1025	1.05	11.06	14.23	17.34	16.96	10.20
1050	1.07	11.04	13.89	17.36	16.91	10.14
1100	1.11	11.04	13.13	17.59	16.91	10.04
1150	1.16	11.02	12.56	17.75	16.96	9.96
1200	1.23	11.00	11.93	17.81	16.97	9.89
1250	1.30	10.98	11.31	17.88	17.07	9.86
1300	1.38	10.95	10.73	18.20	17.51	9.82
1350	1.50	10.94	10.26	18.53	18.13	9.77
1400	1.61	10.93	9.86	18.29	18.58	9.72
1450	1.77	10.94	9.38	17.80	19.11	9.69
1500	1.94	10.97	8.98	17.21	19.96	9.62
1600	2.43	11.15	8.12	15.03	21.60	9.42
1700	3.06	11.50	7.47	12.92	22.37	9.07
1800	3.83	12.11	6.97	10.97	19.65	8.60
1900	4.63	12.97	6.74	9.25	16.41	8.12
2000	5.30	14.06	6.70	8.09	13.98	7.70
2100	5.72	15.27	7.04	7.24	12.12	7.42
2200	5.90	16.49	7.73	6.65	10.97	7.31
2300	5.94	17.54	8.71	6.34	10.12	7.38
2400	5.97	18.52	10.02	5.99	9.38	7.52
2500	5.94	19.25	11.26	5.92	9.01	7.80
2750	6.05	20.27	12.68	5.63	8.39	8.86
3000	6.29	19.59	11.95	5.40	8.14	9.82
3250	6.66	18.05	8.15	5.25	8.45	9.92
3500	7.25	16.78	4.18	4.98	9.41	9.39

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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
5	0.79	10.53	41.18	22.58	34.08	19.92
10	0.79	10.52	43.91	22.81	34.69	20.14
15	0.79	10.52	46.13	22.99	35.14	20.30
20	0.79	10.53	46.86	23.02	35.11	20.31
25	0.79	10.54	47.87	23.03	34.99	20.30
50	0.81	10.56	58.43	22.95	33.95	20.11
75	0.83	10.60	56.78	22.93	33.39	19.82
100	0.83	10.62	49.58	22.91	32.51	19.48
150	0.86	10.69	46.38	22.55	29.35	18.71
200	0.87	10.74	39.77	21.98	27.33	17.95
250	0.88	10.81	35.91	21.58	26.22	17.14
300	0.90	10.87	33.01	21.00	24.86	16.34
350	0.91	10.94	30.27	20.46	23.83	15.58
400	0.93	11.00	28.08	20.06	23.06	14.91
450	0.95	11.08	26.29	19.61	22.23	14.29
475	0.96	11.11	25.42	19.41	21.87	14.02
500	0.96	11.14	24.61	19.23	21.52	13.76
550	0.98	11.20	23.05	18.94	20.96	13.30
575	0.99	11.23	22.37	18.78	20.69	13.08
600	1.01	11.26	21.69	18.64	20.40	12.87
650	1.03	11.32	20.37	18.42	19.91	12.52
700	1.06	11.37	19.24	18.27	19.56	12.19
750	1.09	11.42	18.15	18.17	19.24	11.92
800	1.12	11.44	17.23	18.11	18.95	11.66
850	1.16	11.47	16.35	18.14	18.80	11.44
900	1.19	11.49	15.52	18.14	18.61	11.26
925	1.21	11.50	15.14	18.14	18.53	11.17
950	1.23	11.51	14.79	18.17	18.42	11.10
1000	1.29	11.53	14.03	18.17	18.23	10.95
1025	1.31	11.52	13.72	18.28	18.22	10.90
1050	1.34	11.52	13.39	18.31	18.17	10.84
1100	1.40	11.53	12.73	18.42	18.08	10.74
1150	1.48	11.53	12.18	18.45	18.05	10.65
1200	1.56	11.53	11.61	18.57	18.13	10.58
1250	1.65	11.54	11.12	18.63	18.29	10.52
1300	1.75	11.55	10.64	18.57	18.50	10.46
1350	1.88	11.57	10.20	18.40	18.79	10.40
1400	2.02	11.61	9.78	18.03	19.17	10.35
1450	2.19	11.65	9.38	17.54	19.67	10.31
1500	2.38	11.73	9.06	16.87	20.19	10.25
1600	2.83	11.99	8.46	15.09	21.14	10.08
1700	3.40	12.38	8.03	13.26	21.22	9.86
1800	4.04	12.97	7.75	11.52	19.89	9.60
1900	4.69	13.71	7.73	10.08	17.82	9.34
2000	5.27	14.59	8.03	9.06	15.88	9.16
2100	5.71	15.57	8.64	8.22	14.40	9.08
2200	6.02	16.55	9.74	7.66	13.15	9.14
2300	6.24	17.53	11.24	7.20	12.26	9.32
2400	6.38	18.44	13.74	6.92	11.60	9.62
2500	6.52	19.29	17.50	6.67	11.04	10.03
2750	6.79	21.14	29.50	6.35	10.33	11.11
3000	7.09	21.55	16.20	6.22	10.15	11.48
3250	7.50	20.39	10.20	6.00	10.43	10.84
3500	7.99	18.79	5.76	5.84	11.28	9.78

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