

Directional Coupler

ADC-10-4-75+

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
5	0.80	10.55	37.96	20.30	27.92	18.83
10	0.76	10.53	40.75	21.10	33.75	19.61
15	0.74	10.52	42.46	21.55	38.99	20.03
20	0.74	10.53	43.09	21.67	43.64	20.10
25	0.75	10.53	43.05	21.67	50.16	20.09
50	0.77	10.55	39.62	21.70	46.18	20.07
75	0.78	10.57	36.09	21.81	39.68	20.15
100	0.79	10.58	33.43	21.92	36.31	20.25
150	0.81	10.59	29.94	22.14	32.33	20.55
175	0.81	10.60	28.39	22.22	30.84	20.76
200	0.81	10.61	27.26	22.35	29.62	21.01
250	0.82	10.61	25.37	22.52	27.61	21.54
275	0.82	10.61	24.76	22.63	26.89	21.85
300	0.82	10.60	23.99	22.68	26.27	22.18
350	0.83	10.60	22.74	22.81	25.28	22.96
375	0.83	10.60	22.32	22.88	24.76	23.39
400	0.83	10.59	21.77	22.97	24.35	23.87
450	0.84	10.59	20.83	23.04	23.73	24.86
475	0.85	10.58	20.65	23.14	23.61	25.37
500	0.86	10.58	19.96	23.24	23.51	25.98
525	0.86	10.57	19.82	23.20	23.29	26.48
550	0.86	10.56	19.19	23.29	23.22	26.92
575	0.87	10.55	19.14	23.33	23.08	27.35
600	0.87	10.55	18.62	23.45	22.97	27.57
650	0.89	10.54	18.11	23.64	23.05	27.67
700	0.91	10.51	17.84	23.98	23.50	27.00
750	0.92	10.49	17.57	24.40	23.81	25.94
800	0.93	10.47	17.21	24.79	24.05	24.61
850	0.94	10.44	16.81	25.38	24.93	23.37
900	0.96	10.41	16.59	26.02	25.98	22.23
925	0.96	10.39	16.72	26.45	26.43	21.67
950	0.97	10.38	16.62	26.79	26.76	21.20
975	0.98	10.37	16.80	27.16	27.16	20.69
1000	0.99	10.34	16.99	27.63	27.48	20.31
1025	1.00	10.32	16.78	28.04	27.97	19.88
1050	1.02	10.31	17.40	28.34	28.49	19.51
1100	1.04	10.27	17.57	28.98	29.13	18.86
1150	1.08	10.24	17.73	29.28	29.10	18.30
1200	1.13	10.20	18.26	29.33	28.76	17.81
1250	1.18	10.17	18.41	29.01	28.43	17.43
1300	1.25	10.14	18.17	28.41	27.89	17.07
1400	1.37	10.06	16.92	26.66	26.74	16.63
1500	1.54	9.99	15.06	24.48	26.88	16.23
1600	1.75	10.04	12.42	21.66	27.46	16.01
1700	2.05	10.22	10.87	18.81	28.92	15.74
1800	2.41	10.42	9.27	15.92	28.17	15.52
1900	2.87	10.67	8.54	13.70	25.84	15.29
2000	3.40	10.80	8.03	11.90	23.16	15.33
2200	4.68	11.47	8.56	9.59	20.62	15.66
2400	5.69	13.31	8.44	8.58	20.54	15.63
2500	5.90	14.61	8.16	8.43	20.21	15.19
2600	5.88	15.74	7.69	8.38	19.11	14.60
2800	5.48	17.62	6.56	8.29	16.17	13.75
3000	5.79	17.92	6.08	7.78	13.64	13.44

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Directional Coupler

ADC-10-4-75+

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
5	1.04	10.81	32.68	17.15	20.96	15.36
10	0.87	10.64	35.29	19.30	25.60	17.47
15	0.77	10.54	36.97	20.82	29.73	18.90
20	0.73	10.51	37.73	21.72	33.33	19.68
25	0.72	10.49	37.81	22.23	35.79	20.02
50	0.70	10.49	36.29	24.04	34.12	20.87
75	0.69	10.49	34.39	24.20	33.18	21.37
100	0.69	10.50	32.65	23.33	36.93	21.81
150	0.69	10.50	29.68	23.50	32.81	22.40
175	0.69	10.50	28.31	24.07	31.65	22.54
200	0.69	10.50	27.33	23.83	32.61	22.58
250	0.69	10.48	25.52	22.89	29.48	22.52
275	0.69	10.49	24.94	23.12	28.03	22.45
300	0.70	10.48	24.25	23.31	27.79	22.43
350	0.70	10.46	23.00	22.68	26.72	22.65
375	0.70	10.46	22.59	22.50	25.48	22.88
400	0.70	10.45	22.05	22.52	24.81	23.21
450	0.71	10.44	21.05	22.16	23.97	24.12
475	0.71	10.43	20.86	22.05	23.49	24.63
500	0.72	10.43	20.13	22.05	23.07	25.34
525	0.72	10.42	19.99	21.91	22.63	25.97
550	0.72	10.40	19.34	21.73	22.23	26.67
575	0.73	10.39	19.23	21.56	21.77	27.47
600	0.73	10.39	18.70	21.71	21.44	28.21
650	0.75	10.37	18.20	22.34	21.31	29.63
700	0.76	10.34	17.88	22.31	21.27	29.76
750	0.76	10.31	17.59	23.07	21.53	28.16
800	0.77	10.28	17.24	24.53	21.67	25.68
850	0.77	10.24	16.81	25.55	22.48	23.53
900	0.78	10.20	16.63	27.56	23.47	21.72
925	0.78	10.18	16.80	29.37	23.77	20.91
950	0.79	10.16	16.73	31.21	24.22	20.29
975	0.79	10.15	16.95	31.87	24.79	19.62
1000	0.80	10.11	17.18	32.10	25.32	19.13
1025	0.80	10.08	17.00	32.69	25.66	18.64
1050	0.81	10.07	17.71	33.79	25.75	18.22
1100	0.83	10.03	18.04	30.45	25.91	17.50
1150	0.85	9.98	18.37	26.35	26.04	16.97
1200	0.90	9.94	19.21	25.29	25.15	16.59
1250	0.95	9.91	19.57	23.20	24.40	16.34
1300	1.00	9.86	19.30	21.78	24.59	16.21
1400	1.10	9.77	17.51	20.93	25.53	16.28
1500	1.24	9.66	15.19	20.65	29.16	16.37
1600	1.42	9.67	12.23	19.44	48.00	16.47
1700	1.71	9.82	10.50	18.29	30.96	16.21
1800	2.09	10.03	8.87	16.62	28.30	15.66
1900	2.54	10.24	8.06	15.94	28.76	14.77
2000	3.09	10.31	7.64	14.73	28.99	14.08
2200	4.39	10.89	8.25	9.84	15.44	13.56
2400	5.45	12.76	8.10	5.87	12.14	14.62
2500	5.66	14.16	7.66	5.09	12.45	14.84
2600	5.65	15.26	7.21	5.51	14.89	14.18
2800	5.23	17.07	5.83	7.51	25.77	12.05
3000	5.71	17.34	5.85	11.68	10.16	11.47

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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	0.87	10.67	39.09	20.28	30.80	18.60
10	0.86	10.66	42.91	20.57	34.12	18.93
15	0.85	10.65	45.18	20.67	36.04	19.10
20	0.86	10.66	45.89	20.60	36.55	19.11
25	0.86	10.66	45.65	20.43	36.15	19.09
50	0.89	10.69	40.34	19.75	33.06	19.00
75	0.90	10.71	35.75	19.82	30.98	18.97
100	0.91	10.72	33.24	20.58	30.62	18.99
150	0.93	10.74	29.93	21.33	31.79	19.19
175	0.93	10.75	28.29	21.02	29.78	19.42
200	0.93	10.75	27.04	21.14	27.70	19.75
250	0.94	10.76	25.22	22.40	26.56	20.58
275	0.94	10.76	24.60	22.64	26.66	21.06
300	0.94	10.76	23.86	22.49	26.29	21.60
350	0.94	10.77	22.61	22.89	24.99	22.72
375	0.95	10.77	22.21	23.56	24.59	23.27
400	0.95	10.77	21.70	24.19	24.53	23.81
450	0.96	10.77	20.78	24.21	24.61	24.79
475	0.96	10.77	20.64	24.21	24.70	25.14
500	0.98	10.78	19.81	24.39	24.60	25.48
525	0.98	10.76	19.82	24.71	24.75	25.66
550	0.98	10.77	19.20	24.99	24.89	25.72
575	0.99	10.76	19.14	24.92	24.92	25.76
600	0.99	10.77	18.65	24.78	24.87	25.61
650	1.01	10.77	18.17	25.02	25.27	25.26
700	1.03	10.76	17.88	25.23	26.17	24.73
750	1.04	10.75	17.63	25.05	26.20	24.20
800	1.06	10.73	17.26	25.23	26.41	23.56
850	1.07	10.71	16.91	25.24	27.54	23.01
900	1.09	10.69	16.70	25.02	28.05	22.42
925	1.11	10.69	16.80	24.96	28.06	22.08
950	1.12	10.68	16.72	25.11	28.18	21.80
975	1.13	10.67	16.89	25.41	28.47	21.45
1000	1.14	10.65	17.06	25.86	28.83	21.17
1025	1.15	10.64	16.88	26.13	29.24	20.85
1050	1.17	10.62	17.47	26.19	29.50	20.55
1100	1.21	10.60	17.61	27.16	29.37	19.93
1150	1.25	10.57	17.75	28.73	28.82	19.32
1200	1.30	10.55	18.24	29.88	28.34	18.71
1250	1.37	10.53	18.33	31.90	27.62	18.15
1300	1.44	10.51	18.08	31.88	26.27	17.60
1400	1.58	10.45	16.94	31.01	24.65	16.81
1500	1.74	10.42	15.23	26.77	23.83	16.12
1600	1.96	10.48	12.73	22.27	23.62	15.76
1700	2.24	10.65	11.33	18.55	23.88	15.60
1800	2.56	10.85	9.85	15.48	23.72	15.76
1900	2.97	11.07	9.28	13.23	22.58	16.15
2000	3.43	11.19	8.92	11.71	21.54	17.03
2200	4.54	11.79	9.89	10.36	22.67	18.25
2400	5.54	13.38	10.21	10.36	36.95	17.11
2500	5.83	14.49	9.97	10.23	25.68	16.72
2600	5.95	15.51	9.45	9.75	20.25	16.76
2800	5.85	17.24	7.55	8.47	16.43	17.19
3000	6.14	17.66	6.19	7.41	16.19	15.83

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