

Directional Coupler

ADC-8-4-75+

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	1.62	7.87	18.26	16.56	27.30	16.45
10	1.59	7.86	18.37	16.86	33.19	16.77
15	1.58	7.86	18.42	17.04	38.28	16.97
20	1.59	7.87	18.42	17.09	42.58	17.02
25	1.59	7.87	18.40	17.10	47.01	17.03
50	1.61	7.90	18.31	17.21	48.09	17.12
75	1.62	7.92	18.24	17.33	39.98	17.24
100	1.62	7.93	18.20	17.48	36.25	17.38
125	1.63	7.95	18.05	17.61	33.75	17.49
150	1.63	7.95	18.05	17.76	31.74	17.64
175	1.64	7.97	17.92	17.90	30.19	17.80
200	1.65	7.97	17.87	18.05	28.85	17.96
225	1.65	7.98	17.69	18.21	27.76	18.14
250	1.65	7.98	17.73	18.36	26.85	18.32
275	1.66	7.99	17.49	18.49	26.01	18.52
300	1.67	8.00	17.42	18.69	25.29	18.72
325	1.67	8.00	17.35	18.86	24.64	18.90
350	1.68	8.01	17.18	19.04	24.04	19.11
375	1.68	8.01	17.05	19.22	23.59	19.31
400	1.69	8.02	16.98	19.41	23.11	19.51
450	1.71	8.02	16.70	19.85	22.45	19.89
475	1.73	8.03	16.53	20.07	22.14	20.10
500	1.74	8.02	16.41	20.30	21.89	20.30
525	1.75	8.03	16.31	20.52	21.68	20.46
550	1.77	8.03	16.09	20.79	21.49	20.64
600	1.80	8.03	15.82	21.31	21.20	20.89
650	1.85	8.03	15.59	22.02	20.95	21.01
700	1.89	8.03	15.38	22.73	20.78	21.02
750	1.93	8.03	15.20	23.40	20.61	20.91
800	1.98	8.04	15.08	23.92	20.47	20.65
850	2.04	8.06	14.96	24.38	20.26	20.30
900	2.11	8.07	14.64	24.68	19.97	19.81
950	2.18	8.09	14.13	24.46	19.62	19.31
975	2.21	8.10	14.00	24.21	19.44	19.06
1000	2.26	8.14	13.73	24.02	19.30	18.69
1050	2.33	8.16	12.99	23.41	18.75	18.23
1100	2.41	8.21	12.33	22.64	18.27	17.69
1150	2.50	8.27	11.65	21.87	17.82	17.09
1200	2.58	8.33	10.67	21.25	17.39	16.54
1250	2.69	8.41	9.81	20.56	17.03	15.95
1300	2.80	8.48	9.15	19.98	16.66	15.37
1400	3.00	8.61	7.80	18.99	16.13	14.21
1500	3.29	8.68	7.15	18.17	15.80	13.17
1600	3.74	8.65	7.16	17.49	15.64	12.22
1700	4.30	8.74	7.39	17.09	15.55	11.41
1800	4.97	8.75	8.18	16.94	15.58	10.73
1900	5.67	8.96	8.28	17.00	15.44	10.23
2000	6.37	9.40	7.81	17.11	14.93	9.88
2200	7.66	10.81	5.09	16.30	13.58	9.47
2400	9.56	12.44	2.87	13.09	12.46	9.11
2500	11.07	12.76	2.94	11.42	12.02	8.92
2600	13.00	13.00	3.00	10.02	11.75	8.67
2800	17.68	13.18	3.70	8.03	11.49	7.92
3000	21.22	14.10	2.95	7.08	11.70	7.17

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Directional Coupler

ADC-8-4-75+

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	1.81	7.98	17.33	14.61	18.92	14.36
10	1.62	7.85	17.83	16.27	23.58	16.00
15	1.50	7.78	18.15	17.35	27.33	17.03
20	1.47	7.77	18.30	17.86	30.15	17.48
25	1.46	7.76	18.34	18.14	31.33	17.65
50	1.44	7.76	18.46	19.13	30.15	18.15
75	1.45	7.78	18.44	19.34	29.31	18.45
100	1.45	7.79	18.41	18.89	30.94	18.75
125	1.45	7.80	18.27	18.51	32.49	18.95
150	1.46	7.80	18.29	18.66	30.17	19.09
175	1.47	7.81	18.23	19.05	28.34	19.12
200	1.47	7.81	18.22	19.14	28.13	19.07
225	1.48	7.81	18.06	18.81	28.71	19.00
250	1.49	7.80	18.14	18.48	28.18	18.89
275	1.50	7.81	17.92	18.45	26.62	18.83
300	1.50	7.81	17.89	18.71	25.50	18.76
325	1.51	7.81	17.86	18.84	25.07	18.75
350	1.52	7.81	17.74	18.78	24.81	18.83
375	1.53	7.81	17.61	18.64	24.23	18.94
400	1.54	7.81	17.58	18.69	23.36	19.12
450	1.56	7.80	17.36	19.09	22.40	19.54
475	1.57	7.80	17.21	19.18	22.04	19.78
500	1.58	7.79	17.13	19.28	21.58	20.02
525	1.60	7.79	17.03	19.52	21.14	20.27
550	1.61	7.78	16.89	19.80	20.80	20.50
600	1.64	7.77	16.67	20.29	20.36	20.93
650	1.68	7.76	16.51	21.33	19.75	21.34
700	1.72	7.74	16.36	22.69	19.40	21.69
750	1.76	7.73	16.21	23.97	19.00	21.72
800	1.80	7.73	16.14	25.57	18.71	21.27
850	1.86	7.73	16.06	25.89	18.73	20.47
900	1.93	7.74	15.66	25.48	18.38	19.48
950	2.00	7.75	15.05	23.95	18.13	18.53
975	2.02	7.76	14.79	22.99	18.11	18.10
1000	2.07	7.79	14.33	22.27	18.02	17.65
1050	2.14	7.82	13.47	20.57	17.76	16.85
1100	2.21	7.88	12.65	19.15	17.61	16.11
1150	2.28	7.94	11.84	18.24	17.44	15.40
1200	2.37	8.01	10.77	17.41	17.42	14.79
1250	2.46	8.10	9.84	16.89	17.54	14.25
1300	2.55	8.17	9.15	16.73	17.67	13.77
1400	2.72	8.29	7.76	16.63	17.60	12.92
1500	2.97	8.35	7.14	17.70	16.66	12.19
1600	3.39	8.30	7.32	19.05	15.03	11.50
1700	3.95	8.36	7.70	19.58	13.42	10.90
1800	4.63	8.35	8.61	17.93	12.21	10.23
1900	5.31	8.54	8.63	14.88	11.81	9.54
2000	6.03	8.97	7.95	12.56	11.86	8.89
2200	7.35	10.48	4.92	11.08	14.43	7.90
2400	9.28	12.23	2.62	13.87	17.32	7.65
2500	10.79	12.45	2.87	13.97	14.02	7.85
2600	12.78	12.66	3.02	9.76	11.26	8.17
2800	17.57	12.44	3.85	4.72	8.01	8.39
3000	21.16	12.94	3.07	3.98	7.78	7.73

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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	1.78	8.01	18.13	15.81	26.54	15.82
10	1.76	8.00	18.17	16.06	30.12	16.07
15	1.75	8.00	18.18	16.17	32.23	16.21
20	1.75	8.01	18.14	16.15	32.90	16.25
25	1.76	8.01	18.12	16.09	32.83	16.26
50	1.78	8.03	17.98	15.78	31.39	16.32
75	1.78	8.06	17.90	15.82	30.27	16.38
100	1.78	8.07	17.86	16.32	29.96	16.47
125	1.79	8.09	17.75	16.95	30.47	16.57
150	1.79	8.10	17.69	17.31	31.10	16.75
175	1.78	8.11	17.54	17.33	30.47	16.97
200	1.79	8.12	17.46	17.38	28.60	17.24
225	1.78	8.13	17.28	17.72	27.00	17.56
250	1.79	8.13	17.33	18.22	26.14	17.89
275	1.79	8.15	17.07	18.64	25.80	18.27
300	1.79	8.15	16.99	18.88	25.60	18.62
325	1.79	8.16	16.89	18.99	25.12	18.94
350	1.80	8.17	16.70	19.27	24.49	19.27
375	1.81	8.18	16.56	19.69	23.98	19.54
400	1.82	8.19	16.47	20.18	23.68	19.79
450	1.84	8.21	16.16	20.81	23.42	20.18
475	1.85	8.22	15.96	20.94	23.21	20.32
500	1.86	8.22	15.83	21.08	23.01	20.45
525	1.87	8.23	15.69	21.29	22.88	20.54
550	1.89	8.24	15.49	21.52	22.74	20.59
600	1.92	8.26	15.19	21.96	22.69	20.66
650	1.97	8.27	14.95	22.52	22.60	20.64
700	2.01	8.28	14.73	22.82	22.42	20.60
750	2.06	8.29	14.55	23.22	22.23	20.53
800	2.10	8.31	14.46	23.66	22.01	20.39
850	2.17	8.33	14.35	23.95	21.74	20.23
900	2.25	8.35	14.04	24.20	21.26	19.99
950	2.33	8.38	13.61	24.77	20.72	19.72
975	2.36	8.40	13.49	24.91	20.42	19.62
1000	2.41	8.43	13.17	25.20	20.12	19.43
1050	2.50	8.46	12.65	25.24	19.42	19.11
1100	2.59	8.52	12.07	25.08	18.73	18.70
1150	2.67	8.57	11.46	24.62	18.07	18.16
1200	2.77	8.64	10.53	24.13	17.46	17.63
1250	2.88	8.73	9.70	23.25	17.03	17.00
1300	3.00	8.79	9.07	22.14	16.55	16.34
1400	3.23	8.92	7.78	20.55	15.93	14.97
1500	3.54	9.00	7.12	18.92	15.77	13.69
1600	3.99	9.00	7.06	17.59	16.04	12.57
1700	4.55	9.09	7.23	17.28	16.67	11.72
1800	5.20	9.12	7.92	17.24	17.34	11.12
1900	5.87	9.34	7.98	18.30	17.13	10.84
2000	6.53	9.79	7.63	20.49	15.81	10.78
2200	7.69	11.13	5.00	20.33	12.76	10.92
2400	9.38	12.63	2.79	14.01	11.53	10.33
2500	10.72	12.93	2.78	12.32	11.62	9.86
2600	12.43	13.17	2.87	11.38	12.00	9.38
2800	16.55	13.58	3.56	10.30	12.98	8.49
3000	19.81	15.07	2.61	8.76	13.04	8.11

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