

Directional Coupler

ADC-10-4-75R+

Typical Performance Data

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

FREQUENCY (MHz)	INSERTION LOSS (dB)	COUPLING LOSS (dB)	DIRECTIVITY (dB)	RETURN LOSS		
				IN	(dB) OUT	CPL
5	1.10	9.94	22.23	19.11	26.93	19.00
10	1.05	9.92	22.50	19.86	33.05	19.67
15	1.03	9.91	22.61	20.27	38.86	20.03
20	1.04	9.91	22.58	20.33	44.36	20.09
25	1.05	9.91	22.53	20.29	50.37	20.04
50	1.09	9.95	22.21	19.99	40.80	19.80
75	1.12	9.97	22.00	19.87	36.56	19.75
100	1.13	9.98	21.88	19.96	34.22	19.88
125	1.14	9.99	21.62	20.09	32.31	19.97
150	1.15	10.00	21.54	20.18	30.66	20.03
175	1.16	10.00	21.26	20.22	29.51	20.09
200	1.16	10.01	21.10	20.27	28.55	20.26
225	1.17	10.01	20.85	20.44	27.74	20.51
250	1.18	10.01	20.79	20.65	27.02	20.68
275	1.19	10.01	20.47	20.81	26.25	20.75
300	1.19	10.01	20.29	20.98	25.70	20.70
325	1.20	10.01	20.18	21.12	25.45	20.72
350	1.21	10.01	19.87	21.37	25.26	20.80
375	1.21	10.01	19.68	21.65	24.96	20.89
400	1.22	10.01	19.60	21.92	24.66	20.88
425	1.23	10.01	19.30	22.21	24.55	20.80
450	1.24	10.01	19.16	22.48	24.61	20.67
500	1.25	10.01	18.71	23.04	24.39	20.32
525	1.27	10.00	18.80	23.38	24.40	20.09
550	1.28	10.01	18.40	23.70	24.55	19.82
600	1.30	10.01	18.15	24.70	24.79	19.12
650	1.32	10.01	18.01	26.15	25.37	18.43
700	1.34	10.01	18.02	27.58	26.31	17.57
750	1.36	10.01	18.13	28.98	26.90	16.74
800	1.39	10.01	18.37	30.58	28.49	16.10
850	1.41	10.01	18.56	31.10	29.36	15.50
900	1.45	10.03	18.68	31.11	30.33	14.99
950	1.49	10.04	18.91	30.56	29.95	14.40
975	1.52	10.04	19.54	29.39	29.28	14.19
1000	1.54	10.06	19.62	28.52	28.82	13.92
1050	1.60	10.09	20.50	27.04	27.59	13.49
1100	1.66	10.11	20.67	25.92	25.80	13.24
1150	1.71	10.12	20.37	25.28	24.67	13.03
1200	1.77	10.12	19.38	25.15	23.67	12.83
1250	1.83	10.11	18.05	24.87	22.74	12.73
1300	1.89	10.11	16.98	24.78	22.13	12.65
1400	2.00	10.03	14.54	25.66	21.12	12.76
1500	2.12	9.97	13.08	27.33	20.83	13.03
1600	2.24	9.95	11.64	29.74	21.12	13.54
1700	2.41	10.02	11.00	33.33	22.30	14.42
1800	2.59	10.12	10.94	29.39	24.67	15.42
1900	2.78	10.24	11.05	25.47	27.36	16.35
2000	2.96	10.39	11.83	22.74	26.43	17.19
2200	3.39	10.89	11.50	20.54	20.23	17.44
2400	4.19	11.41	8.58	20.77	17.47	15.12
2500	4.68	11.70	7.02	21.29	16.54	13.74
2600	5.09	12.09	6.28	21.60	15.86	12.28
2800	5.86	13.58	4.89	22.21	15.29	9.69
3000	6.41	14.96	5.16	21.80	15.32	8.10

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Directional Coupler

ADC-10-4-75R+

Typical Performance Data

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

FREQUENCY (MHz)	INSERTION LOSS (dB)	COUPLING LOSS (dB)	DIRECTIVITY (dB)	RETURN LOSS		
				IN	OUT	CPL
5	1.05	9.86	21.66	19.06	25.77	18.85
10	0.97	9.81	21.92	20.29	31.37	20.04
15	0.93	9.79	22.08	21.02	36.46	20.76
20	0.93	9.79	22.14	21.27	41.04	21.00
25	0.94	9.80	22.16	21.43	44.81	21.14
50	0.96	9.83	22.07	22.20	40.82	21.87
75	0.98	9.84	21.93	22.24	36.47	21.90
100	1.00	9.85	21.82	21.48	34.09	21.09
125	1.01	9.86	21.54	20.84	32.44	20.43
150	1.01	9.85	21.51	20.90	31.22	20.50
175	1.02	9.86	21.33	21.41	30.50	20.98
200	1.02	9.85	21.24	21.62	30.09	21.14
225	1.03	9.86	21.01	21.26	29.76	20.70
250	1.03	9.85	20.97	20.80	29.15	20.24
275	1.04	9.84	20.66	20.72	28.25	20.19
300	1.04	9.84	20.55	21.07	27.41	20.37
325	1.05	9.83	20.48	21.33	26.87	20.48
350	1.05	9.82	20.22	21.28	26.40	20.33
375	1.05	9.82	20.05	21.08	25.62	20.20
400	1.06	9.81	19.96	21.07	24.97	20.27
425	1.07	9.81	19.70	21.35	24.49	20.42
450	1.07	9.80	19.61	21.66	24.29	20.50
500	1.09	9.78	19.19	21.89	23.62	20.27
525	1.10	9.77	19.30	22.12	23.51	20.30
550	1.11	9.77	18.90	22.46	23.48	20.27
600	1.13	9.76	18.71	23.34	23.46	19.63
650	1.14	9.74	18.62	24.97	23.66	19.07
700	1.16	9.72	18.72	27.74	24.19	17.95
750	1.18	9.71	18.97	30.79	24.40	16.65
800	1.19	9.69	19.33	36.42	25.44	15.73
850	1.22	9.68	19.72	35.22	25.92	14.66
900	1.25	9.69	20.04	31.52	26.39	13.83
950	1.29	9.68	20.55	26.92	26.16	12.98
975	1.32	9.69	21.42	25.19	25.57	12.65
1000	1.33	9.70	21.76	24.02	25.17	12.32
1050	1.39	9.73	23.08	22.44	24.24	11.89
1100	1.45	9.76	23.41	21.51	22.89	11.61
1150	1.50	9.77	23.02	21.16	21.99	11.49
1200	1.56	9.77	21.19	20.94	21.27	11.47
1250	1.61	9.76	19.23	21.23	20.64	11.55
1300	1.68	9.75	17.81	22.10	20.38	11.75
1400	1.78	9.65	14.86	24.91	20.19	12.68
1500	1.87	9.56	13.28	31.82	20.60	13.64
1600	1.98	9.52	11.94	34.07	21.19	14.58
1700	2.14	9.53	11.44	27.97	21.76	15.14
1800	2.31	9.62	11.72	26.25	22.06	14.63
1900	2.49	9.72	12.12	29.52	22.08	13.93
2000	2.68	9.89	13.36	34.29	22.49	13.45
2200	3.14	10.50	12.27	23.34	23.00	12.42
2400	3.96	11.21	8.42	16.11	20.09	11.72
2500	4.50	11.64	6.74	13.37	17.87	12.42
2600	4.87	12.12	5.87	13.23	15.83	13.94
2800	5.66	13.79	4.59	13.24	13.28	11.79
3000	6.17	15.12	5.21	17.87	13.07	6.41

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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		
				IN	(dB) OUT	CPL
5	1.17	10.01	21.75	18.30	25.31	18.33
10	1.12	9.98	22.11	19.04	30.47	19.04
15	1.10	9.97	22.29	19.41	34.41	19.41
20	1.10	9.97	22.29	19.43	37.14	19.44
25	1.11	9.97	22.21	19.31	37.97	19.31
50	1.15	10.01	21.90	18.57	36.05	18.62
75	1.18	10.03	21.69	18.33	33.42	18.47
100	1.20	10.05	21.58	18.77	31.50	18.98
125	1.21	10.06	21.35	19.45	29.96	19.67
150	1.22	10.07	21.30	19.81	28.65	19.96
175	1.23	10.08	21.02	19.74	27.69	19.85
200	1.23	10.08	20.86	19.63	26.85	19.81
225	1.24	10.10	20.60	19.90	26.13	20.19
250	1.25	10.10	20.50	20.46	25.50	20.79
275	1.26	10.10	20.23	20.97	24.91	21.22
300	1.27	10.11	20.07	21.25	24.51	21.17
325	1.27	10.11	19.92	21.33	24.39	20.93
350	1.28	10.11	19.62	21.56	24.36	20.76
375	1.29	10.12	19.47	21.98	24.19	20.84
400	1.30	10.12	19.34	22.54	24.12	20.95
425	1.31	10.13	19.04	23.01	24.17	20.87
450	1.32	10.13	18.92	23.31	24.45	20.56
500	1.34	10.14	18.47	23.68	24.58	19.66
525	1.35	10.14	18.55	24.01	24.82	19.42
550	1.36	10.15	18.14	24.36	25.10	19.31
600	1.39	10.16	17.86	25.13	25.66	18.82
650	1.41	10.18	17.72	26.00	26.57	17.98
700	1.44	10.19	17.69	26.94	27.73	17.40
750	1.46	10.20	17.77	27.88	28.43	16.90
800	1.49	10.21	17.94	29.05	30.26	16.34
850	1.52	10.22	18.14	29.58	31.34	15.88
900	1.56	10.24	18.16	30.38	32.97	15.56
950	1.61	10.26	18.28	32.21	32.65	15.06
975	1.63	10.27	18.77	32.13	31.96	14.90
1000	1.65	10.29	18.89	31.69	31.49	14.67
1050	1.72	10.32	19.58	29.90	29.91	14.34
1100	1.78	10.35	19.65	28.49	27.68	14.06
1150	1.84	10.36	19.33	27.46	26.34	13.80
1200	1.90	10.36	18.47	26.56	25.09	13.57
1250	1.96	10.36	17.29	25.56	23.93	13.41
1300	2.03	10.35	16.33	24.99	23.04	13.17
1400	2.15	10.28	14.11	24.68	21.70	13.03
1500	2.27	10.24	12.73	25.28	21.33	13.10
1600	2.40	10.22	11.34	26.18	21.67	13.42
1700	2.58	10.29	10.72	29.19	23.26	14.21
1800	2.75	10.40	10.62	26.85	26.78	15.36
1900	2.96	10.53	10.70	23.62	31.73	16.50
2000	3.13	10.67	11.42	21.03	27.51	17.81
2200	3.55	11.08	11.42	19.22	19.32	19.13
2400	4.34	11.46	8.88	21.05	16.95	15.89
2500	4.82	11.67	7.41	23.07	16.35	13.91
2600	5.25	12.01	6.77	24.73	16.05	12.13
2800	6.02	13.33	5.58	23.51	15.71	9.70
3000	6.59	14.54	6.07	20.18	15.35	8.87

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