

# Directional Coupler

# ADC-20-4-75R+

## Typical Performance Data

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

FREQUENCY (MHz)	INSERTION LOSS (dB)	COUPLING LOSS (dB)	DIRECTIVITY (dB)	RETURN LOSS (dB)		
				IN	OUT	CPL
10	0.56	20.70	21.41	19.24	19.29	20.38
20	0.55	20.77	23.52	22.91	23.20	23.37
30	0.54	20.81	24.20	24.78	25.27	24.92
40	0.52	20.83	24.50	26.16	26.78	26.06
50	0.51	20.85	24.56	27.31	28.06	26.98
75	0.50	20.90	24.44	29.62	30.74	28.86
100	0.49	20.92	24.31	31.13	32.57	30.31
150	0.50	20.93	23.45	31.30	32.46	32.48
175	0.50	20.94	22.78	30.61	31.28	33.42
200	0.51	20.94	22.31	29.69	30.06	34.17
250	0.52	20.92	21.29	27.89	27.79	35.14
275	0.52	20.90	20.77	27.01	26.90	35.41
300	0.53	20.88	20.35	26.24	26.11	35.52
325	0.54	20.86	20.12	25.59	25.40	35.44
350	0.55	20.85	19.51	25.03	24.77	35.11
375	0.55	20.82	19.17	24.52	24.26	34.44
400	0.56	20.79	18.80	24.05	23.78	33.55
450	0.58	20.72	17.98	23.36	23.07	31.86
475	0.59	20.69	17.72	23.11	22.75	31.22
500	0.60	20.65	17.29	22.89	22.52	30.69
550	0.62	20.58	16.71	22.54	22.16	29.54
575	0.63	20.53	16.65	22.43	22.04	28.88
600	0.64	20.50	16.18	22.36	21.97	28.20
650	0.67	20.41	15.78	22.38	21.97	27.17
700	0.69	20.32	15.51	22.61	22.10	26.50
750	0.71	20.20	15.38	23.05	22.44	25.73
800	0.72	20.10	15.26	23.57	22.89	24.98
850	0.73	19.98	15.06	24.32	23.46	24.43
900	0.75	19.86	15.10	25.31	24.32	24.04
950	0.76	19.74	14.99	26.56	25.20	23.60
975	0.76	19.67	15.20	27.20	25.77	23.45
1000	0.78	19.61	15.22	28.07	26.39	23.33
1025	0.78	19.59	14.76	28.83	26.92	23.25
1050	0.79	19.49	15.21	29.86	27.53	23.25
1100	0.80	19.38	15.04	31.97	28.86	23.23
1150	0.82	19.27	14.66	34.56	30.33	23.21
1200	0.83	19.14	14.01	37.01	31.61	23.22
1250	0.86	19.05	13.09	36.73	32.39	23.38
1300	0.89	18.93	12.40	34.61	32.77	23.77
1400	0.93	18.66	10.84	31.58	31.91	24.58
1500	0.97	18.40	9.75	29.27	30.76	26.18
1600	0.99	18.18	8.66	27.84	29.56	27.94
1700	1.04	18.03	8.25	26.99	27.91	31.31
1800	1.11	17.92	8.18	25.99	26.11	37.08
1900	1.21	17.81	8.59	25.13	24.14	43.88
2000	1.32	17.76	9.34	23.74	22.17	36.73
2200	1.35	17.83	9.18	20.79	18.44	27.04
2400	1.19	17.94	6.16	18.11	15.28	22.80
2500	1.16	17.84	4.46	17.38	14.29	21.88
2600	1.23	17.63	3.84	17.00	13.51	20.15
2800	1.95	17.22	3.75	16.39	12.08	18.14
3000	2.70	17.09	7.21	16.76	11.39	17.00
3250	2.45	16.23	10.40	19.48	12.11	16.51
3500	1.71	18.14	0.06	18.00	11.57	16.81

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# Directional Coupler

# ADC-20-4-75R+

## Typical Performance Data

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

FREQUENCY (MHz)	INSERTION LOSS (dB)	COUPLING LOSS (dB)	DIRECTIVITY (dB)	RETURN LOSS (dB)		
				IN	OUT	CPL
10	0.36	20.59	20.04	18.80	18.52	19.38
20	0.43	20.71	23.90	24.38	23.76	24.52
30	0.44	20.75	24.76	27.62	26.45	27.14
40	0.44	20.79	25.04	30.13	28.40	29.14
50	0.43	20.81	25.04	32.03	30.14	30.46
75	0.43	20.84	25.10	33.24	34.71	30.65
100	0.42	20.86	24.85	33.26	40.71	30.13
150	0.42	20.88	23.99	35.73	41.89	35.01
175	0.42	20.88	23.30	36.58	38.91	39.16
200	0.43	20.88	22.91	36.88	36.66	38.01
250	0.44	20.86	21.81	31.04	32.53	36.54
275	0.44	20.84	21.32	28.84	30.63	38.22
300	0.45	20.83	20.90	27.87	29.00	40.83
325	0.45	20.79	20.63	27.40	27.56	42.58
350	0.46	20.78	20.06	26.39	26.35	40.27
375	0.46	20.75	19.71	25.06	25.32	36.91
400	0.47	20.71	19.33	24.00	24.42	34.52
450	0.49	20.65	18.56	23.04	23.17	32.65
475	0.50	20.61	18.35	22.49	22.66	31.71
500	0.50	20.58	17.86	21.86	22.26	30.29
550	0.52	20.49	17.29	21.09	21.64	27.99
575	0.53	20.45	17.42	20.93	21.38	27.31
600	0.54	20.41	16.86	20.71	21.17	26.51
650	0.57	20.32	16.61	20.41	20.86	24.82
700	0.58	20.21	16.36	20.61	20.76	24.04
750	0.60	20.11	16.36	20.88	20.90	23.02
800	0.61	20.00	16.43	21.75	21.36	21.88
850	0.62	19.88	16.42	22.89	22.05	21.42
900	0.63	19.76	16.57	24.35	23.13	20.80
950	0.64	19.63	16.59	27.26	24.44	20.31
975	0.64	19.56	17.00	29.00	25.21	20.27
1000	0.65	19.50	17.16	30.97	26.09	20.26
1025	0.65	19.46	16.82	33.03	26.90	20.31
1050	0.65	19.40	17.35	36.36	27.97	20.47
1100	0.66	19.28	17.34	42.69	30.05	20.86
1150	0.68	19.17	16.96	33.73	31.99	21.21
1200	0.69	19.04	16.11	28.62	32.58	21.97
1250	0.72	18.93	14.88	26.30	32.15	23.01
1300	0.74	18.82	14.08	25.09	31.73	24.31
1400	0.77	18.56	12.01	23.34	31.83	28.88
1500	0.79	18.31	10.73	23.24	31.81	40.14
1600	0.78	18.11	9.58	23.17	28.24	32.21
1700	0.82	17.95	9.23	24.65	24.12	26.10
1800	0.89	17.88	9.44	24.88	21.33	23.07
1900	0.97	17.76	10.15	25.18	19.75	20.97
2000	1.08	17.69	11.36	29.71	19.12	21.02
2200	1.01	17.77	10.47	26.30	19.14	22.68
2400	0.78	17.92	6.14	15.88	17.82	23.11
2500	0.76	17.87	4.19	13.56	16.20	19.63
2600	0.77	17.63	3.42	12.12	14.62	16.54
2800	1.35	17.21	3.65	10.19	11.31	12.09
3000	2.26	16.91	8.40	11.68	9.36	9.87
3250	1.91	15.95	9.05	22.68	10.75	10.25
3500	0.95	18.34	1.82	11.45	13.16	15.85

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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	0.75	20.77	20.95	18.39	18.65	19.95
20	0.68	20.84	22.72	21.19	22.01	22.27
30	0.65	20.86	23.29	22.44	23.83	23.27
40	0.63	20.88	23.53	23.21	25.14	23.82
50	0.61	20.90	23.65	23.79	26.13	24.21
75	0.60	20.94	23.60	25.15	27.82	25.43
100	0.59	20.96	23.39	26.77	28.56	27.39
150	0.60	20.98	22.72	28.82	28.35	30.73
175	0.60	21.00	22.03	28.02	27.88	30.28
200	0.61	21.00	21.60	26.85	27.15	29.93
250	0.62	20.99	20.66	26.17	25.79	32.12
275	0.62	20.97	20.21	26.32	25.28	34.16
300	0.63	20.95	19.84	26.21	24.86	35.57
325	0.64	20.95	19.44	25.66	24.47	35.44
350	0.64	20.92	18.99	24.94	24.12	34.48
375	0.65	20.91	18.51	24.54	23.86	33.80
400	0.66	20.88	18.16	24.50	23.65	33.48
450	0.68	20.82	17.31	24.78	23.43	33.49
475	0.69	20.78	17.05	24.55	23.31	33.34
500	0.70	20.76	16.61	24.23	23.25	32.91
550	0.72	20.68	15.97	24.12	23.18	31.86
575	0.73	20.64	15.92	24.33	23.20	31.37
600	0.74	20.61	15.39	24.40	23.20	31.03
650	0.77	20.52	14.94	24.30	23.29	30.70
700	0.79	20.43	14.52	24.26	23.38	30.27
750	0.81	20.34	14.29	24.30	23.52	29.27
800	0.82	20.22	14.12	24.36	23.69	28.81
850	0.84	20.12	13.94	24.45	23.94	28.03
900	0.86	20.00	13.72	24.57	24.30	26.98
950	0.87	19.89	13.51	24.99	24.67	26.34
975	0.87	19.82	13.63	25.24	24.90	25.95
1000	0.89	19.75	13.57	25.56	25.15	25.42
1025	0.89	19.74	13.07	25.86	25.40	25.02
1050	0.90	19.65	13.43	26.23	25.65	24.75
1100	0.91	19.55	13.19	27.36	26.35	24.32
1150	0.93	19.44	12.78	29.14	27.19	23.49
1200	0.95	19.31	12.20	31.36	27.98	22.84
1250	0.97	19.21	11.40	34.71	28.79	22.55
1300	1.00	19.08	10.89	41.08	29.60	22.55
1400	1.06	18.79	9.55	37.29	29.95	22.44
1500	1.10	18.52	8.60	29.53	30.56	23.77
1600	1.15	18.27	7.61	25.72	31.74	25.37
1700	1.21	18.09	7.23	23.59	33.52	29.35
1800	1.30	17.96	7.11	21.94	32.53	31.72
1900	1.39	17.81	7.40	20.76	27.51	29.12
2000	1.50	17.74	7.99	19.64	23.27	23.69
2200	1.55	17.80	7.93	18.16	17.87	19.58
2400	1.46	17.85	5.62	18.51	15.04	18.81
2500	1.48	17.66	4.21	19.52	14.47	19.76
2600	1.60	17.44	3.72	20.94	14.10	20.53
2800	2.38	17.00	3.63	20.40	13.11	23.15
3000	3.03	16.96	6.51	17.39	12.25	21.18
3250	2.74	16.33	10.74	16.88	12.57	16.82
3500	2.15	18.15	1.03	18.95	11.91	15.82

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