

Directional Coupler

ADC-20-4-75+

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	0.53	19.48	21.87	23.03	23.65	19.24
10	0.45	19.49	22.10	26.21	27.48	22.15
20	0.40	19.53	22.13	29.45	31.87	25.12
30	0.40	19.54	22.23	30.23	33.06	25.83
40	0.41	19.56	22.27	30.47	33.38	26.12
50	0.41	19.57	22.34	30.41	33.32	26.19
75	0.43	19.57	22.55	30.19	32.68	26.24
100	0.45	19.60	22.71	29.96	31.98	26.31
125	0.46	19.61	22.78	29.65	31.20	26.44
150	0.47	19.64	22.76	29.29	30.39	26.59
175	0.48	19.65	22.85	28.92	29.62	26.82
200	0.49	19.67	22.82	28.53	28.88	27.03
250	0.51	19.71	22.71	27.64	27.57	27.61
275	0.52	19.73	22.96	27.21	26.96	27.95
300	0.53	19.75	22.81	26.85	26.46	28.36
325	0.54	19.76	22.67	26.50	25.99	28.67
350	0.54	19.77	22.45	26.20	25.57	29.07
375	0.56	19.78	22.55	25.89	25.21	29.45
400	0.57	19.80	22.18	25.64	24.88	29.74
425	0.58	19.79	22.08	25.43	24.57	30.07
450	0.59	19.80	21.64	25.28	24.36	30.34
475	0.60	19.81	21.61	25.18	24.21	30.63
500	0.61	19.82	20.85	25.10	24.11	30.83
550	0.63	19.81	20.16	25.12	23.93	31.25
575	0.64	19.80	20.10	25.19	23.89	31.32
600	0.66	19.81	19.43	25.36	23.82	31.43
650	0.69	19.78	18.75	25.78	23.81	31.75
700	0.71	19.78	18.17	26.51	24.11	31.89
750	0.73	19.73	17.67	27.49	24.60	32.23
800	0.74	19.72	17.01	28.53	25.00	32.63
850	0.76	19.68	16.59	29.95	25.80	33.30
900	0.78	19.64	16.13	30.77	26.81	34.37
925	0.78	19.63	16.15	30.97	27.16	35.10
950	0.80	19.61	15.77	30.82	27.57	36.03
1000	0.81	19.56	15.83	29.42	27.94	38.60
1050	0.83	19.53	15.84	27.58	27.71	42.07
1100	0.86	19.49	15.43	25.63	27.18	44.81
1150	0.90	19.46	14.86	23.78	26.11	39.99
1200	0.95	19.45	14.14	22.23	24.84	35.23
1250	1.01	19.45	13.33	20.84	23.62	31.52
1300	1.08	19.43	12.51	19.64	22.55	28.80
1400	1.23	19.37	10.66	17.69	20.74	24.53
1500	1.35	19.28	9.33	16.25	19.33	21.41
1600	1.41	19.18	7.83	15.08	18.37	18.92
1700	1.43	19.10	7.04	14.09	17.64	16.92
1800	1.36	19.07	6.38	13.21	16.99	15.35
1900	1.37	19.14	6.28	12.54	16.60	14.02
2000	1.29	19.26	6.68	12.11	16.26	12.97
2200	1.66	20.02	7.52	11.20	15.43	11.40
2400	2.42	20.90	6.10	10.15	13.64	10.43
2500	3.01	21.16	4.75	9.77	12.84	10.09
2600	3.45	21.33	3.79	9.44	12.17	9.79
2800	3.94	21.16	2.38	8.60	10.95	9.20
3000	3.29	21.51	3.68	7.02	9.71	8.39

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Directional Coupler

ADC-20-4-75+

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	0.37	19.46	21.10	27.42	28.55	23.50
10	0.35	19.52	21.08	31.07	33.89	26.33
20	0.34	19.57	21.08	34.71	39.84	29.04
30	0.35	19.57	21.17	35.72	39.60	29.30
40	0.35	19.57	21.22	37.02	39.37	29.34
50	0.36	19.58	21.33	38.81	40.17	29.37
75	0.37	19.59	21.45	43.65	47.73	29.80
100	0.38	19.59	21.49	37.60	46.79	30.53
125	0.38	19.60	21.53	33.75	37.23	31.35
150	0.39	19.60	21.57	32.34	33.42	31.93
175	0.39	19.61	21.53	32.69	32.50	32.28
200	0.41	19.62	21.46	33.52	33.22	32.20
250	0.41	19.63	21.36	29.93	31.04	31.50
275	0.42	19.63	21.53	28.38	28.97	31.10
300	0.43	19.63	21.34	27.84	27.96	30.79
325	0.43	19.63	21.28	27.63	27.60	30.38
350	0.43	19.64	21.18	27.09	27.19	30.17
375	0.44	19.63	21.21	26.16	26.36	30.03
400	0.45	19.63	21.08	25.36	25.41	29.89
425	0.46	19.62	20.87	24.93	24.70	29.79
450	0.47	19.61	20.73	24.73	24.29	29.69
475	0.48	19.60	20.84	24.46	23.95	29.63
500	0.49	19.60	20.24	24.13	23.59	29.44
550	0.51	19.58	19.82	23.82	23.10	29.20
575	0.52	19.56	19.90	23.66	22.96	28.96
600	0.53	19.56	19.47	23.44	22.68	28.67
650	0.56	19.52	19.01	23.25	22.10	28.26
700	0.57	19.50	18.66	24.18	22.38	27.82
750	0.59	19.42	18.46	25.51	22.67	27.72
800	0.60	19.41	18.11	27.48	22.75	27.81
850	0.62	19.34	17.90	30.61	23.37	28.14
900	0.63	19.29	17.62	35.72	23.83	28.78
925	0.64	19.26	17.90	41.34	24.00	29.13
950	0.64	19.24	17.61	40.84	24.38	29.61
1000	0.66	19.19	18.07	30.33	24.82	30.45
1050	0.69	19.15	18.68	25.56	24.24	31.02
1100	0.72	19.11	18.52	22.72	23.42	31.28
1150	0.75	19.08	18.08	20.53	22.52	30.45
1200	0.81	19.07	17.28	18.58	21.57	28.96
1250	0.88	19.06	16.12	17.14	20.94	27.17
1300	0.95	19.05	14.94	16.28	20.54	25.55
1400	1.10	19.02	12.38	15.00	20.23	22.63
1500	1.19	18.91	10.66	14.81	20.53	20.43
1600	1.22	18.81	8.85	15.15	20.38	18.75
1700	1.19	18.72	7.96	15.65	18.52	17.49
1800	1.11	18.71	7.39	16.58	15.23	16.42
1900	1.09	18.83	7.34	15.46	13.27	15.20
2000	1.07	18.98	8.11	14.17	11.91	13.89
2200	1.49	19.87	9.39	10.03	11.77	11.31
2400	2.33	20.93	7.54	7.08	13.87	9.77
2500	3.00	21.25	5.51	6.06	16.08	9.42
2600	3.37	21.34	4.38	6.55	17.24	9.31
2800	3.59	21.16	2.90	8.23	10.13	9.62
3000	2.99	21.79	4.41	11.00	5.72	9.38

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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 (dB)	CPL
5	0.53	19.49	22.48	23.26	23.87	19.50
10	0.48	19.51	22.89	25.78	26.99	22.00
20	0.45	19.54	23.24	27.76	29.70	24.26
30	0.46	19.55	23.49	27.61	29.69	24.58
40	0.47	19.56	23.53	27.11	29.11	24.57
50	0.48	19.56	23.75	26.62	28.45	24.46
75	0.50	19.59	23.96	25.97	27.33	24.28
100	0.51	19.63	23.94	26.31	27.18	24.19
125	0.53	19.65	24.02	27.27	27.85	24.25
150	0.54	19.70	24.05	27.80	28.46	24.37
175	0.55	19.73	24.11	27.37	28.04	24.65
200	0.57	19.77	24.21	26.60	27.00	25.02
250	0.59	19.84	23.77	26.30	25.78	26.06
275	0.60	19.88	23.95	26.62	25.74	26.75
300	0.61	19.91	23.84	26.75	25.77	27.48
325	0.62	19.93	23.68	26.51	25.56	28.17
350	0.63	19.96	23.19	26.22	25.23	28.97
375	0.64	19.98	23.28	26.09	24.94	29.75
400	0.65	20.00	22.89	26.28	24.80	30.56
425	0.67	20.02	22.55	26.58	24.71	31.31
450	0.67	20.03	21.98	26.77	24.74	32.00
475	0.69	20.04	21.79	26.82	24.81	32.74
500	0.70	20.06	20.85	26.75	24.91	33.34
550	0.73	20.08	19.94	27.12	25.10	34.59
575	0.74	20.07	19.71	27.36	25.17	35.00
600	0.76	20.08	18.89	27.67	25.29	35.47
650	0.78	20.08	18.11	27.86	25.44	36.26
700	0.81	20.10	17.27	28.08	25.73	36.40
750	0.83	20.03	16.86	28.35	26.44	36.85
800	0.84	20.06	15.96	28.24	26.84	36.94
850	0.87	20.02	15.55	28.26	27.52	36.97
900	0.88	19.99	14.94	27.81	28.43	37.05
925	0.89	19.97	14.89	27.67	28.75	37.22
950	0.91	19.97	14.51	27.66	29.18	37.27
1000	0.92	19.92	14.45	27.68	29.72	38.18
1050	0.95	19.89	14.37	27.31	29.63	39.03
1100	0.98	19.86	13.93	26.98	29.22	40.47
1150	1.02	19.82	13.38	26.03	27.93	42.17
1200	1.07	19.80	12.70	24.77	26.23	40.48
1250	1.13	19.79	11.97	23.24	24.85	35.93
1300	1.21	19.76	11.23	21.65	23.43	32.16
1400	1.36	19.70	9.69	18.96	20.83	26.13
1500	1.48	19.59	8.48	16.61	19.13	21.91
1600	1.56	19.49	7.10	14.82	18.06	18.71
1700	1.60	19.40	6.40	13.47	17.68	16.28
1800	1.54	19.35	5.81	12.30	17.72	14.53
1900	1.56	19.42	5.68	11.71	18.31	13.26
2000	1.48	19.55	5.99	11.56	18.97	12.43
2200	1.87	20.27	6.67	11.56	17.18	11.61
2400	2.66	21.06	5.39	11.19	13.30	11.10
2500	3.23	21.26	4.20	10.81	12.17	10.65
2600	3.66	21.39	3.29	10.18	11.64	10.09
2800	4.12	21.12	2.10	8.56	11.61	8.87
3000	3.42	21.30	3.38	6.60	11.71	7.91

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