

Directional Coupler

ADC-6-10-75+

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
10	2.22	6.72	15.20	14.56	27.85	14.12
15	2.20	6.72	15.26	14.68	30.96	14.24
20	2.20	6.72	15.29	14.75	33.43	14.32
25	2.20	6.72	15.30	14.79	35.26	14.35
50	2.21	6.74	15.26	14.88	38.85	14.46
75	2.22	6.76	15.24	14.99	39.26	14.57
100	2.22	6.76	15.23	15.10	37.90	14.71
125	2.22	6.77	15.17	15.21	35.87	14.87
150	2.23	6.77	15.20	15.31	34.02	15.04
175	2.22	6.78	15.15	15.40	32.36	15.23
200	2.22	6.78	15.16	15.51	30.96	15.41
250	2.22	6.77	15.12	15.73	28.73	15.90
275	2.22	6.78	15.06	15.85	27.80	16.14
300	2.21	6.77	15.06	15.96	27.00	16.41
325	2.21	6.77	14.99	16.07	26.25	16.74
350	2.20	6.76	15.00	16.17	25.57	17.07
375	2.21	6.76	14.98	16.26	25.02	17.36
400	2.20	6.75	14.95	16.37	24.50	17.70
450	2.20	6.74	14.85	16.60	23.65	18.51
475	2.20	6.73	14.90	16.73	23.28	18.85
500	2.21	6.74	14.74	16.83	22.97	19.31
550	2.22	6.73	14.67	16.99	22.44	20.20
600	2.23	6.71	14.66	17.19	22.08	21.14
650	2.25	6.70	14.63	17.50	21.83	21.98
700	2.27	6.68	14.64	17.72	21.69	23.02
750	2.29	6.65	14.67	17.92	21.60	23.46
800	2.31	6.62	14.81	18.13	21.54	24.03
850	2.33	6.60	14.96	18.30	21.55	24.03
900	2.36	6.58	15.03	18.35	21.48	23.87
950	2.40	6.58	14.84	18.43	21.42	23.54
1000	2.43	6.58	14.69	18.43	21.25	22.96
1050	2.47	6.60	14.44	18.31	21.01	22.65
1100	2.53	6.61	14.14	18.19	20.74	21.88
1150	2.56	6.63	13.63	17.99	20.51	21.70
1200	2.60	6.66	12.99	17.68	20.21	21.05
1250	2.65	6.70	12.09	17.34	19.94	20.87
1300	2.71	6.72	11.36	17.13	19.73	20.23
1400	2.79	6.75	9.78	16.49	19.28	19.46
1500	2.90	6.70	9.00	16.03	18.92	18.56
1600	3.11	6.67	8.36	15.27	18.58	17.66
1700	3.45	6.69	8.19	14.82	18.39	16.64
1800	3.89	6.64	8.75	13.97	18.39	15.56
1900	4.30	6.69	9.16	13.55	18.31	14.54
2000	4.74	6.74	9.74	12.96	18.17	13.51
2100	5.02	7.00	9.22	12.69	17.35	12.82
2200	5.28	7.46	8.06	12.58	16.42	12.23
2300	5.52	7.92	6.72	12.52	15.41	11.82
2400	5.79	8.33	5.61	12.92	14.56	11.54
2500	6.36	8.51	5.02	13.33	13.95	11.43
2600	7.13	8.57	5.08	14.19	13.39	11.55
2700	8.34	8.33	6.60	15.12	12.99	11.87
2800	9.47	8.33	7.80	16.23	13.00	12.18
2900	10.46	8.62	8.83	17.69	13.18	12.37
3000	11.40	9.17	8.86	19.49	13.64	12.46

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Directional Coupler

ADC-6-10-75+

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
10	2.20	6.66	14.75	14.23	20.40	13.78
15	2.11	6.61	15.03	14.92	23.77	14.44
20	2.05	6.58	15.22	15.41	26.63	14.88
25	2.03	6.58	15.31	15.70	28.97	15.09
50	2.01	6.58	15.46	16.50	30.65	15.51
75	2.00	6.59	15.47	16.61	30.25	15.75
100	2.00	6.59	15.47	16.23	32.84	15.98
125	2.01	6.60	15.41	16.03	34.96	16.18
150	2.01	6.60	15.46	16.20	31.92	16.35
175	2.01	6.60	15.44	16.41	30.56	16.49
200	2.01	6.60	15.45	16.31	31.12	16.57
250	2.02	6.60	15.43	15.98	29.32	16.72
275	2.02	6.60	15.38	16.09	27.82	16.75
300	2.02	6.59	15.40	16.13	27.22	16.80
325	2.03	6.59	15.33	16.01	26.73	16.92
350	2.03	6.58	15.35	15.94	25.82	17.06
375	2.04	6.58	15.34	15.95	24.93	17.16
400	2.03	6.57	15.33	16.01	24.30	17.35
450	2.04	6.56	15.26	16.00	23.19	17.92
475	2.04	6.55	15.32	16.16	22.59	18.16
500	2.05	6.55	15.18	16.38	22.16	18.53
550	2.06	6.54	15.13	16.42	21.30	19.34
600	2.08	6.51	15.18	16.65	20.34	20.20
650	2.10	6.49	15.19	17.41	20.07	21.14
700	2.11	6.46	15.28	17.74	19.50	22.38
750	2.13	6.42	15.36	18.39	19.29	23.37
800	2.14	6.39	15.56	18.76	19.29	24.62
850	2.16	6.35	15.82	19.29	19.26	25.00
900	2.19	6.33	16.00	19.38	19.28	24.67
950	2.22	6.32	15.78	18.73	19.29	23.74
1000	2.25	6.32	15.59	18.21	19.51	22.40
1050	2.29	6.34	15.20	17.58	19.51	21.45
1100	2.33	6.36	14.79	16.68	19.55	20.26
1150	2.36	6.37	14.13	16.15	19.68	19.70
1200	2.40	6.41	13.36	15.66	19.93	18.93
1250	2.44	6.45	12.29	14.71	20.45	18.66
1300	2.48	6.47	11.48	14.64	20.95	18.14
1400	2.52	6.49	9.73	14.06	22.11	17.74
1500	2.60	6.40	8.97	15.10	20.78	17.42
1600	2.78	6.33	8.45	15.64	18.75	17.13
1700	3.09	6.32	8.38	16.73	15.72	16.47
1800	3.52	6.27	9.17	17.38	14.12	15.53
1900	3.93	6.30	9.79	16.64	13.42	14.52
2000	4.32	6.36	10.39	14.71	13.96	13.40
2100	4.53	6.64	9.67	12.20	15.40	12.48
2200	4.76	7.19	8.08	9.97	18.65	11.60
2300	4.95	7.70	6.45	8.66	23.50	10.85
2400	5.26	8.09	5.32	8.58	21.73	10.37
2500	5.87	8.24	4.88	9.22	16.39	10.28
2600	6.71	8.21	5.11	12.00	12.46	10.52
2700	7.98	7.96	6.98	15.59	9.88	10.94
2800	9.26	7.98	8.63	27.75	8.56	11.42
2900	10.18	8.33	9.55	21.20	8.35	11.91
3000	11.12	9.05	9.05	14.50	8.70	12.18

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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	2.47	6.91	14.92	13.74	24.87	13.32
15	2.46	6.91	14.93	13.79	25.76	13.41
20	2.46	6.91	14.93	13.80	26.25	13.47
25	2.46	6.92	14.94	13.77	26.35	13.50
50	2.47	6.94	14.87	13.57	25.66	13.59
75	2.47	6.95	14.84	13.66	25.76	13.68
100	2.47	6.95	14.85	14.10	26.90	13.79
125	2.46	6.96	14.79	14.54	28.37	13.94
150	2.45	6.96	14.82	14.69	28.84	14.15
175	2.44	6.96	14.75	14.67	28.05	14.39
200	2.43	6.95	14.75	14.78	27.26	14.67
250	2.41	6.94	14.73	15.50	27.53	15.37
275	2.40	6.95	14.68	15.78	27.88	15.74
300	2.39	6.93	14.67	15.87	27.55	16.13
325	2.39	6.93	14.58	15.96	26.66	16.60
350	2.38	6.93	14.60	16.17	25.85	17.06
375	2.38	6.93	14.57	16.43	25.49	17.46
400	2.37	6.93	14.54	16.68	25.47	17.92
450	2.36	6.92	14.44	16.89	25.39	18.91
475	2.36	6.91	14.46	17.00	25.04	19.29
500	2.36	6.92	14.31	17.15	24.74	19.80
550	2.37	6.92	14.23	17.35	24.58	20.66
600	2.38	6.92	14.20	17.43	24.52	21.49
650	2.39	6.91	14.15	17.64	24.39	22.04
700	2.41	6.90	14.15	17.69	24.52	22.74
750	2.43	6.88	14.16	17.74	24.47	22.88
800	2.45	6.86	14.25	17.86	24.28	23.22
850	2.48	6.85	14.39	17.97	24.34	23.22
900	2.52	6.84	14.43	17.95	23.99	23.27
950	2.56	6.85	14.23	18.27	23.60	23.36
1000	2.60	6.87	14.08	18.65	23.26	23.31
1050	2.65	6.89	13.86	18.73	22.62	23.55
1100	2.72	6.92	13.58	19.15	21.92	23.21
1150	2.75	6.94	13.12	19.22	21.42	23.40
1200	2.81	6.98	12.53	19.10	20.73	22.87
1250	2.87	7.02	11.68	18.91	20.12	22.76
1300	2.94	7.06	11.01	18.70	19.69	22.03
1400	3.04	7.09	9.55	17.63	19.05	20.95
1500	3.17	7.07	8.77	16.63	18.88	19.54
1600	3.40	7.05	8.11	15.25	19.18	18.18
1700	3.76	7.10	7.89	14.30	20.15	16.87
1800	4.19	7.05	8.31	13.32	21.41	15.71
1900	4.60	7.12	8.61	13.00	21.71	14.80
2000	5.01	7.17	9.10	12.83	20.05	14.10
2100	5.29	7.40	8.68	13.13	17.39	13.82
2200	5.53	7.82	7.71	13.76	15.24	13.65
2300	5.76	8.24	6.47	14.48	13.90	13.55
2400	6.01	8.62	5.40	15.08	13.32	13.35
2500	6.54	8.79	4.72	14.86	13.40	13.05
2600	7.24	8.84	4.67	14.55	13.69	12.79
2700	8.34	8.57	5.89	14.39	14.31	12.79
2800	9.36	8.49	6.89	14.49	15.07	12.89
2900	10.20	8.59	8.14	15.46	15.37	13.10
3000	10.93	8.91	8.70	17.39	15.30	13.49

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