

Directional Coupler

ADC-10-1R

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	0.72	10.42	40.37	23.39	31.18	20.67
10	0.71	10.42	42.03	23.77	31.70	21.03
20	0.71	10.42	44.16	24.06	32.22	21.30
25	0.71	10.43	44.65	24.06	32.28	21.29
30	0.72	10.44	44.91	24.05	32.30	21.27
40	0.73	10.44	45.82	24.01	32.15	21.20
45	0.73	10.45	46.41	24.01	32.00	21.17
50	0.73	10.46	46.88	24.01	31.85	21.13
100	0.75	10.50	49.77	23.85	30.29	20.59
125	0.76	10.51	49.25	23.73	29.44	20.22
150	0.77	10.53	46.55	23.55	28.69	19.79
200	0.79	10.56	39.95	23.18	27.38	18.87
250	0.80	10.58	35.69	22.72	26.23	17.94
300	0.82	10.61	32.36	22.23	25.34	17.06
350	0.83	10.63	29.64	21.72	24.53	16.25
400	0.85	10.65	27.48	21.27	23.78	15.51
450	0.87	10.67	25.55	20.82	23.11	14.83
500	0.88	10.69	23.84	20.39	22.53	14.23
550	0.90	10.71	22.28	20.07	21.99	13.68
600	0.92	10.73	20.92	19.75	21.52	13.19
650	0.94	10.74	19.64	19.47	21.11	12.76
700	0.96	10.76	18.46	19.25	20.68	12.37
750	0.99	10.77	17.35	19.08	20.33	12.03
800	1.01	10.78	16.40	18.91	19.98	11.72
850	1.04	10.78	15.46	18.87	19.71	11.46
900	1.07	10.78	14.62	18.78	19.45	11.23
950	1.10	10.78	13.83	18.78	19.22	11.03
1000	1.13	10.77	13.07	18.77	19.03	10.86
1050	1.18	10.77	12.33	18.87	18.87	10.73
1100	1.21	10.75	11.68	18.87	18.80	10.61
1200	1.31	10.72	10.45	18.88	18.65	10.47
1300	1.44	10.69	9.32	18.85	18.77	10.42
1400	1.60	10.66	8.34	18.38	19.15	10.46
1500	1.82	10.65	7.40	17.51	19.93	10.56
1600	2.11	10.70	6.56	16.09	21.18	10.72
1700	2.51	10.86	5.74	14.40	23.33	10.88
1800	3.00	11.10	5.06	12.66	26.58	11.05
1900	3.64	11.51	4.41	11.07	28.75	11.19
2000	4.35	12.12	3.87	9.62	24.51	11.36
2100	5.10	12.93	3.45	8.44	19.99	11.68
2200	5.77	13.96	3.20	7.53	16.91	12.29
2300	6.31	15.19	3.07	6.85	14.65	13.45
2400	6.65	16.52	3.17	6.35	12.94	15.43
2500	6.83	18.02	3.30	6.00	11.70	18.65
2600	6.92	19.60	3.35	5.77	10.75	22.74
2700	6.94	21.11	3.25	5.58	10.00	21.10
2800	6.93	22.39	2.57	5.43	9.43	16.47
2900	6.93	23.17	1.94	5.31	8.96	13.23
3000	6.93	23.15	1.73	5.19	8.61	11.00
3100	6.96	22.82	1.69	5.09	8.33	9.42
3200	7.03	22.15	2.07	5.00	8.09	8.30
3300	7.13	21.43	2.43	4.89	7.94	7.48
3400	7.25	20.78	2.83	4.81	7.88	6.88
3500	7.44	20.21	2.90	4.71	7.87	6.40

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Directional Coupler

ADC-10-1R

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	0.91	10.61	35.54	20.26	26.38	17.71
10	0.81	10.51	37.71	21.82	28.47	19.18
20	0.71	10.42	40.16	23.49	30.74	20.74
25	0.70	10.41	40.43	23.78	31.04	20.99
30	0.70	10.41	40.31	23.95	31.08	21.12
40	0.69	10.41	39.99	24.15	30.79	21.26
45	0.69	10.42	40.06	24.22	30.49	21.30
50	0.69	10.42	40.10	24.28	30.20	21.33
100	0.69	10.44	43.45	24.05	27.85	21.11
125	0.70	10.45	46.53	23.98	27.51	20.74
150	0.70	10.46	45.89	23.98	27.38	20.23
200	0.71	10.48	45.39	23.44	26.19	19.09
250	0.72	10.50	39.77	22.65	25.03	18.01
300	0.74	10.52	35.15	22.25	24.52	17.07
350	0.75	10.53	31.95	21.53	23.65	16.21
400	0.76	10.55	29.23	21.02	22.99	15.42
450	0.77	10.57	27.16	20.48	22.32	14.68
500	0.79	10.59	25.17	19.96	21.72	14.03
550	0.80	10.60	23.47	19.63	21.24	13.45
600	0.82	10.62	21.98	19.24	20.74	12.93
650	0.83	10.63	20.60	18.97	20.38	12.48
700	0.85	10.64	19.39	18.71	19.94	12.07
750	0.87	10.65	18.23	18.52	19.59	11.70
800	0.89	10.65	17.27	18.33	19.26	11.37
850	0.92	10.66	16.30	18.15	18.87	11.08
900	0.94	10.65	15.40	18.01	18.59	10.84
950	0.96	10.63	14.57	17.99	18.35	10.62
1000	1.00	10.63	13.78	17.89	18.07	10.44
1050	1.03	10.61	12.99	17.89	17.84	10.28
1100	1.06	10.59	12.26	17.90	17.76	10.16
1200	1.14	10.53	11.02	17.90	17.56	9.99
1300	1.25	10.48	9.80	18.03	17.67	9.90
1400	1.39	10.42	8.74	17.87	17.96	9.88
1500	1.57	10.38	7.77	17.41	18.57	9.92
1600	1.82	10.37	6.85	16.35	19.64	10.05
1700	2.18	10.45	6.00	14.73	21.17	10.20
1800	2.63	10.58	5.32	13.18	24.21	10.30
1900	3.24	10.88	4.59	11.39	27.74	10.40
2000	3.94	11.34	4.06	9.85	25.62	10.49
2100	4.77	12.05	3.54	8.42	20.71	10.49
2200	5.51	12.94	3.32	7.52	17.05	10.73
2300	6.14	14.04	3.22	6.73	14.52	11.42
2400	6.56	15.27	3.37	6.10	12.68	12.68
2500	6.76	16.60	3.77	5.75	11.31	14.90
2600	6.83	17.96	4.30	5.54	10.28	18.45
2700	6.81	19.25	4.86	5.35	9.47	21.77
2800	6.75	20.32	4.76	5.19	8.87	18.64
2900	6.72	21.06	4.13	5.03	8.27	14.29
3000	6.66	21.16	3.64	4.92	7.93	11.57
3100	6.65	21.01	3.13	4.81	7.62	9.80
3200	6.69	20.57	3.08	4.69	7.34	8.50
3300	6.75	20.03	3.16	4.61	7.18	7.59
3400	6.85	19.54	3.34	4.48	7.08	6.94
3500	7.01	19.10	3.24	4.38	7.02	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 (dB)		
				IN	OUT	CPL
5	0.79	10.51	42.02	22.68	34.25	20.09
10	0.79	10.51	44.69	22.88	34.78	20.27
20	0.79	10.52	48.57	23.02	35.12	20.39
25	0.80	10.53	49.83	23.01	35.05	20.38
30	0.80	10.53	50.86	22.99	34.94	20.35
40	0.81	10.55	55.38	22.94	34.71	20.29
45	0.81	10.55	60.96	22.93	34.60	20.26
50	0.82	10.55	65.19	22.91	34.51	20.22
100	0.84	10.59	49.25	22.94	33.40	19.65
125	0.85	10.62	47.48	22.86	31.64	19.31
150	0.86	10.64	44.74	22.63	30.02	18.96
200	0.87	10.67	37.26	22.35	28.48	18.24
250	0.89	10.70	33.89	22.17	27.37	17.47
300	0.90	10.74	31.03	21.68	26.09	16.69
350	0.92	10.78	28.36	21.31	25.28	15.94
400	0.93	10.81	26.41	20.98	24.52	15.24
450	0.95	10.84	24.59	20.57	23.75	14.61
500	0.97	10.88	22.94	20.22	23.15	14.05
550	0.99	10.91	21.44	19.96	22.58	13.55
600	1.01	10.94	20.16	19.65	22.03	13.10
650	1.03	10.96	18.96	19.41	21.61	12.69
700	1.05	10.99	17.83	19.22	21.16	12.33
750	1.07	11.01	16.79	19.09	20.80	12.01
800	1.10	11.03	15.88	18.98	20.44	11.73
850	1.13	11.05	15.00	18.99	20.19	11.48
900	1.16	11.05	14.24	18.96	19.95	11.26
950	1.19	11.06	13.51	18.92	19.69	11.07
1000	1.23	11.07	12.80	18.90	19.47	10.91
1050	1.27	11.07	12.11	18.99	19.29	10.78
1100	1.31	11.06	11.53	18.90	19.15	10.67
1200	1.41	11.05	10.35	18.78	18.84	10.54
1300	1.54	11.04	9.28	18.64	18.84	10.50
1400	1.71	11.03	8.35	18.12	19.04	10.53
1500	1.92	11.04	7.48	17.34	19.57	10.65
1600	2.20	11.11	6.70	16.14	20.39	10.82
1700	2.55	11.28	5.91	14.65	21.73	10.99
1800	2.99	11.51	5.22	13.09	23.45	11.22
1900	3.53	11.88	4.60	11.68	25.33	11.45
2000	4.12	12.40	4.04	10.36	24.85	11.69
2100	4.76	13.09	3.60	9.28	21.75	12.08
2200	5.39	13.95	3.25	8.29	18.83	12.70
2300	5.94	14.97	2.95	7.59	16.50	13.71
2400	6.38	16.06	2.86	7.02	14.63	15.40
2500	6.71	17.36	2.66	6.58	13.26	18.20
2600	6.96	18.76	2.46	6.27	12.15	23.66
2700	7.13	20.26	2.21	6.02	11.30	43.81
2800	7.24	21.87	1.54	5.83	10.65	23.18
2900	7.34	23.39	0.72	5.69	10.13	17.34
3000	7.41	24.54	0.00	5.51	9.72	13.95
3100	7.50	25.18	0.50	5.41	9.38	11.55
3200	7.59	25.09	0.44	5.31	9.11	9.88
3300	7.69	24.39	0.21	5.23	8.93	8.70
3400	7.80	23.67	0.91	5.14	8.82	7.81
3500	7.98	22.82	1.55	5.00	8.73	7.11

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