

Directional Coupler

ADC-6-13

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	8.00	9.27	6.79	1.77	1.06	1.82
25	3.84	6.60	8.01	5.50	3.63	5.65
50	2.35	6.48	10.37	9.71	7.46	9.89
75	1.95	6.59	12.05	12.31	10.33	12.45
100	1.80	6.66	13.09	14.03	12.45	14.11
125	1.72	6.69	13.74	15.24	14.09	15.28
150	1.67	6.72	14.17	16.20	15.42	16.17
175	1.64	6.73	14.45	16.96	16.53	16.88
200	1.62	6.74	14.64	17.61	17.48	17.48
225	1.61	6.74	14.78	18.15	18.30	17.99
250	1.60	6.74	14.88	18.64	19.03	18.45
275	1.59	6.75	14.93	19.08	19.69	18.87
300	1.58	6.73	14.97	19.47	20.28	19.27
350	1.58	6.71	15.01	20.15	21.35	19.98
400	1.58	6.68	15.01	20.76	22.35	20.67
450	1.59	6.64	14.99	21.25	23.26	21.29
500	1.60	6.60	15.01	21.62	24.25	21.88
550	1.62	6.55	15.00	21.95	25.28	22.47
600	1.65	6.50	15.00	22.21	26.45	23.06
650	1.68	6.45	15.01	22.49	27.68	23.69
700	1.71	6.39	15.08	22.70	29.29	24.34
750	1.74	6.33	15.24	23.03	31.29	25.09
800	1.77	6.27	15.36	23.37	33.78	26.00
850	1.80	6.21	15.52	23.82	37.93	27.09
900	1.84	6.15	15.76	24.42	45.03	28.48
950	1.87	6.09	16.10	25.18	47.44	30.23
1000	1.90	6.05	16.51	26.19	38.38	32.36
1050	1.94	6.01	17.09	27.24	33.54	34.26
1100	1.98	5.97	17.65	28.53	30.52	32.83
1150	2.01	5.94	18.54	28.98	27.92	29.58
1200	2.04	5.93	19.62	27.66	25.85	26.12
1250	2.08	5.94	21.05	25.35	24.12	23.15
1300	2.12	5.98	22.87	22.71	22.53	20.60
1350	2.16	6.03	24.85	20.10	21.13	18.34
1400	2.21	6.15	25.95	17.85	19.89	16.28
1450	2.27	6.30	24.08	15.72	18.72	14.46
1500	2.35	6.51	20.59	13.85	17.64	12.81
1600	2.58	7.18	14.42	10.65	15.73	9.95
1700	2.96	8.32	9.36	8.14	14.20	7.65
1800	3.50	10.06	4.84	6.25	13.01	5.91
1900	4.16	12.49	0.48	4.97	12.09	4.74
2000	4.82	15.63	4.04	4.22	11.43	4.08
2100	5.35	18.09	7.35	3.94	10.76	3.88
2200	5.59	17.49	7.19	4.03	10.03	4.06
2300	5.57	14.38	3.90	4.50	9.24	4.62
2400	5.63	11.27	0.89	4.98	8.68	5.17
2500	6.36	9.21	7.73	4.65	9.10	4.67
2600	7.80	8.55	13.24	3.89	10.41	3.73
2700	9.02	8.57	8.09	3.48	11.70	3.24
2800	9.72	8.88	4.53	3.45	12.41	3.19
2900	9.87	9.03	2.47	3.59	12.37	3.28
3000	9.79	9.47	0.74	3.84	11.82	3.46

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Directional Coupler

ADC-6-13

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	8.08	9.36	6.78	1.74	1.05	1.78
25	3.91	6.66	7.98	5.44	3.62	5.56
50	2.39	6.50	10.31	9.60	7.41	9.70
75	1.98	6.61	12.02	12.08	10.18	12.23
100	1.82	6.67	13.08	13.67	12.16	13.91
125	1.73	6.70	13.69	14.84	13.75	15.12
150	1.67	6.72	14.11	15.84	15.16	16.03
175	1.63	6.72	14.45	16.66	16.33	16.73
200	1.60	6.73	14.69	17.28	17.23	17.30
225	1.58	6.73	14.87	17.76	17.93	17.79
250	1.57	6.73	14.95	18.18	18.57	18.24
275	1.56	6.73	14.99	18.65	19.26	18.65
300	1.54	6.71	15.04	19.11	19.91	19.03
350	1.53	6.69	15.12	19.76	20.86	19.76
400	1.53	6.66	15.06	20.29	21.72	20.52
450	1.53	6.62	15.04	20.92	22.72	21.21
500	1.53	6.57	15.09	21.49	23.58	21.86
550	1.54	6.53	15.06	21.95	24.53	22.52
600	1.56	6.47	15.06	22.34	25.60	23.18
650	1.58	6.41	15.05	22.70	26.66	23.95
700	1.61	6.35	15.11	23.03	28.20	24.74
750	1.63	6.29	15.24	23.49	29.90	25.67
800	1.66	6.23	15.36	24.03	32.07	26.79
850	1.68	6.16	15.58	24.82	34.92	28.19
900	1.71	6.10	15.81	25.56	37.11	30.03
950	1.74	6.04	16.05	26.27	40.35	32.27
1000	1.76	6.00	16.42	27.42	38.30	35.31
1050	1.80	5.95	16.93	28.69	34.03	37.44
1100	1.83	5.91	17.50	30.24	30.55	34.15
1150	1.85	5.87	18.43	30.84	27.88	29.73
1200	1.88	5.86	19.40	29.11	26.02	26.05
1250	1.91	5.86	20.60	25.88	24.07	23.22
1300	1.95	5.89	22.29	22.45	22.01	20.71
1350	1.98	5.94	24.52	19.65	20.44	18.36
1400	2.03	6.05	26.16	17.48	19.27	16.27
1450	2.09	6.18	24.90	15.46	18.17	14.41
1500	2.15	6.38	21.42	13.69	17.11	12.77
1600	2.37	7.02	15.01	10.58	15.29	9.90
1700	2.73	8.11	9.81	8.03	13.73	7.58
1800	3.28	9.83	5.14	6.01	12.43	5.78
1900	3.92	12.21	0.80	4.73	11.56	4.56
2000	4.65	15.47	3.94	3.86	10.75	3.85
2100	5.20	18.28	7.61	3.52	10.09	3.56
2200	5.47	18.02	7.88	3.54	9.39	3.64
2300	5.49	14.97	4.85	3.90	8.55	4.08
2400	5.44	11.68	0.41	4.44	7.76	4.67
2500	6.02	9.36	5.84	4.24	7.82	4.46
2600	7.45	8.41	14.48	3.54	9.04	3.53
2700	8.84	8.30	10.24	3.07	10.49	2.97
2800	9.75	8.57	5.78	2.95	11.47	2.87
2900	10.03	8.63	3.48	3.08	11.87	2.94
3000	9.98	8.99	1.60	3.24	11.57	3.11

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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	7.90	9.20	6.80	1.81	1.09	1.86
25	3.78	6.59	8.05	5.57	3.67	5.74
50	2.32	6.50	10.42	9.81	7.54	10.05
75	1.93	6.62	12.04	12.48	10.49	12.60
100	1.78	6.68	13.10	14.30	12.69	14.24
125	1.71	6.72	13.78	15.52	14.33	15.38
150	1.67	6.75	14.21	16.42	15.61	16.26
175	1.64	6.76	14.46	17.15	16.67	16.99
200	1.62	6.77	14.62	17.84	17.70	17.62
225	1.61	6.78	14.76	18.45	18.64	18.15
250	1.60	6.78	14.87	18.95	19.38	18.62
275	1.60	6.79	14.95	19.34	20.01	19.06
300	1.60	6.77	14.99	19.69	20.51	19.48
350	1.60	6.76	14.99	20.34	21.69	20.20
400	1.60	6.73	15.02	20.91	22.74	20.84
450	1.62	6.70	15.02	21.28	23.59	21.41
500	1.64	6.66	15.04	21.62	24.59	21.95
550	1.67	6.62	15.04	21.85	25.63	22.48
600	1.69	6.56	15.06	22.00	26.74	23.05
650	1.73	6.51	15.07	22.21	28.03	23.67
700	1.76	6.46	15.17	22.41	29.72	24.28
750	1.80	6.40	15.34	22.71	31.75	25.06
800	1.84	6.34	15.47	23.12	34.55	25.89
850	1.87	6.28	15.67	23.56	39.54	26.93
900	1.91	6.23	15.95	24.17	49.30	28.27
950	1.95	6.17	16.32	24.87	48.37	29.98
1000	1.99	6.14	16.72	25.91	39.45	31.90
1050	2.02	6.10	17.34	27.10	34.77	33.45
1100	2.06	6.06	17.99	28.68	31.62	32.09
1150	2.10	6.03	18.92	29.73	29.04	28.90
1200	2.14	6.03	20.06	28.36	26.73	25.68
1250	2.18	6.05	21.61	25.77	24.82	22.87
1300	2.22	6.08	23.60	22.95	23.26	20.37
1350	2.27	6.15	25.74	20.29	21.81	18.20
1400	2.32	6.26	26.49	18.00	20.52	16.22
1450	2.39	6.42	23.94	15.89	19.36	14.48
1500	2.47	6.65	20.24	14.01	18.25	12.86
1600	2.72	7.35	14.11	10.83	16.28	10.04
1700	3.11	8.52	9.10	8.32	14.69	7.79
1800	3.64	10.26	4.66	6.48	13.48	6.08
1900	4.32	12.71	0.32	5.20	12.44	4.94
2000	4.97	15.87	4.19	4.48	11.72	4.31
2100	5.48	18.20	7.35	4.23	11.12	4.13
2200	5.71	17.31	6.84	4.39	10.39	4.36
2300	5.71	14.17	3.36	4.90	9.70	4.95
2400	5.86	11.18	1.59	5.31	9.32	5.40
2500	6.69	9.36	8.52	4.88	10.02	4.74
2600	8.10	8.82	11.65	4.11	11.43	3.84
2700	9.18	8.92	6.98	3.75	12.62	3.40
2800	9.78	9.27	3.83	3.77	13.10	3.37
2900	9.97	9.49	1.81	3.87	12.65	3.47
3000	9.87	9.92	0.19	4.14	11.88	3.68

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