

Directional Coupler

ADC-18-4-75

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
10	0.42	17.63	17.12	18.64	19.20	13.57
15	0.45	17.65	17.09	21.47	22.67	16.06
20	0.47	17.67	17.11	23.57	25.43	17.81
25	0.47	17.67	17.18	24.98	27.50	18.83
50	0.45	17.61	17.58	29.27	34.17	21.18
75	0.42	17.57	17.94	30.42	34.99	22.69
100	0.40	17.55	18.22	29.62	35.92	23.90
125	0.39	17.54	18.59	29.06	37.85	24.91
150	0.39	17.52	18.72	29.05	35.81	25.72
175	0.38	17.51	18.96	29.60	34.52	26.33
200	0.38	17.50	19.14	29.42	34.85	26.72
225	0.38	17.49	19.48	27.60	33.16	26.91
250	0.38	17.49	19.51	25.72	29.75	26.96
275	0.38	17.49	19.91	24.66	27.42	26.92
300	0.38	17.48	20.00	24.31	26.36	26.75
325	0.39	17.48	20.26	23.88	25.83	26.51
350	0.39	17.48	20.47	22.95	24.99	26.21
400	0.40	17.46	20.88	21.12	22.71	25.59
450	0.42	17.46	21.24	20.40	21.63	24.93
500	0.45	17.48	21.67	19.70	20.56	24.30
550	0.47	17.46	21.49	18.97	19.44	23.70
600	0.49	17.46	21.63	18.25	18.58	23.21
650	0.52	17.46	21.44	17.98	18.11	22.74
700	0.55	17.45	21.33	18.04	17.76	22.29
750	0.57	17.44	21.25	18.00	17.27	21.90
800	0.59	17.44	20.88	18.31	17.31	21.61
850	0.62	17.43	20.36	18.62	17.15	21.46
900	0.64	17.42	20.29	19.52	17.24	21.48
950	0.66	17.41	20.30	20.41	17.77	21.77
1000	0.66	17.39	21.04	21.64	18.13	22.14
1050	0.67	17.38	21.86	23.42	18.59	22.82
1100	0.69	17.38	22.03	24.82	19.21	23.59
1150	0.71	17.38	21.84	26.41	19.95	24.54
1200	0.73	17.38	21.05	26.38	20.24	25.55
1250	0.76	17.38	19.57	25.76	20.80	26.57
1300	0.79	17.41	18.11	24.57	21.29	27.43
1400	0.89	17.40	14.74	21.60	19.74	27.55
1500	0.99	17.41	12.53	19.16	17.14	25.75
1600	1.15	17.59	10.25	17.24	14.50	23.62
1700	1.35	17.93	8.94	15.24	11.85	22.13
1800	1.65	18.49	7.93	14.06	10.07	21.40
1900	1.95	19.24	7.36	13.95	9.36	21.22
2000	2.28	20.14	6.83	14.40	9.26	21.07
2100	2.64	21.06	6.38	14.39	9.22	20.27
2200	3.08	22.48	5.44	12.12	9.97	19.02
2300	3.98	24.46	2.74	9.22	9.14	17.41
2400	5.43	27.43	1.82	7.03	7.80	15.82
2500	7.45	28.91	4.86	5.57	5.99	14.22
2600	9.10	26.05	3.87	5.06	4.93	12.84
2700	9.91	22.73	1.48	5.49	4.64	11.81
2800	9.71	20.50	0.37	6.98	4.92	11.13
2900	8.22	17.63	1.21	9.54	5.80	10.90
3000	6.99	15.44	2.16	14.01	7.76	10.97

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Directional Coupler

ADC-18-4-75

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
10	0.59	17.87	16.79	19.35	20.36	14.74
15	0.58	17.84	16.95	21.05	22.55	16.37
20	0.57	17.80	17.11	22.32	24.26	17.58
25	0.56	17.76	17.29	23.18	25.49	18.36
50	0.50	17.68	17.75	25.55	29.46	20.39
75	0.48	17.63	18.10	26.87	32.36	21.56
100	0.46	17.61	18.36	27.51	34.15	22.40
125	0.46	17.60	18.70	27.57	34.01	23.02
150	0.46	17.59	18.83	27.23	32.66	23.53
175	0.46	17.59	19.17	26.64	31.01	23.92
200	0.47	17.59	19.38	25.99	29.54	24.31
225	0.47	17.59	19.80	25.29	28.19	24.59
250	0.48	17.59	19.91	24.59	26.98	24.86
275	0.48	17.60	20.42	23.98	25.95	25.12
300	0.49	17.60	20.69	23.44	24.99	25.32
325	0.50	17.60	21.00	22.93	24.22	25.48
350	0.51	17.61	21.36	22.43	23.53	25.61
400	0.53	17.62	22.06	21.35	22.25	25.71
450	0.55	17.62	22.88	20.67	21.32	25.66
500	0.58	17.64	23.19	20.24	20.45	25.45
550	0.61	17.65	23.67	19.81	19.85	25.17
600	0.65	17.66	23.87	19.35	19.33	24.86
650	0.68	17.68	23.50	19.14	18.89	24.51
700	0.71	17.69	23.13	19.19	18.56	24.14
750	0.74	17.70	22.89	19.06	18.29	23.85
800	0.78	17.71	22.21	18.98	18.08	23.56
850	0.82	17.71	21.33	19.23	17.94	23.34
900	0.85	17.74	20.79	19.54	17.82	23.19
950	0.87	17.75	20.36	19.61	17.75	23.14
1000	0.88	17.74	20.47	19.88	17.66	23.04
1050	0.90	17.75	20.60	20.29	17.57	23.15
1100	0.93	17.77	19.98	20.58	17.49	23.24
1150	0.96	17.79	19.20	20.77	17.34	23.44
1200	0.98	17.79	18.08	21.03	17.17	23.68
1250	1.02	17.81	16.75	21.36	17.04	24.02
1300	1.05	17.84	15.66	21.37	16.82	24.46
1400	1.16	17.86	13.17	21.40	16.30	25.17
1500	1.31	17.91	11.41	20.55	15.67	25.66
1600	1.48	18.07	9.53	19.37	14.87	25.29
1700	1.72	18.40	8.57	17.58	13.81	24.04
1800	2.02	18.92	7.62	15.66	12.59	22.38
1900	2.32	19.60	7.20	14.05	11.39	20.74
2000	2.61	20.46	6.78	12.37	10.27	19.26
2100	3.00	21.28	6.91	11.01	9.07	17.99
2200	3.37	22.46	6.96	9.72	8.06	16.97
2300	4.23	23.87	6.04	8.74	7.16	15.99
2400	5.59	25.73	3.41	8.11	6.57	15.10
2500	7.45	26.81	0.66	7.79	6.30	14.27
2600	9.02	25.33	0.21	7.85	6.32	13.58
2700	10.05	23.06	0.69	8.13	6.61	12.97
2800	10.03	21.15	1.05	8.70	7.12	12.43
2900	8.73	18.56	2.30	9.48	7.83	12.03
3000	7.38	16.38	3.01	10.28	8.70	11.72

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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	0.78	18.17	16.73	18.65	19.70	14.36
15	0.73	18.08	17.01	19.96	21.35	15.73
20	0.69	18.00	17.24	20.93	22.60	16.79
25	0.66	17.94	17.42	21.58	23.47	17.53
50	0.60	17.82	17.90	22.89	25.67	19.34
75	0.58	17.79	18.27	23.76	27.21	20.16
100	0.58	17.77	18.51	24.94	28.87	20.68
125	0.58	17.77	18.88	25.96	30.24	21.07
150	0.58	17.78	19.15	25.84	30.16	21.47
175	0.58	17.79	19.63	24.85	28.56	21.80
200	0.59	17.80	19.94	23.97	26.82	22.20
225	0.60	17.80	20.52	23.67	25.83	22.62
250	0.61	17.82	20.78	23.84	25.52	23.06
275	0.62	17.84	21.56	23.88	25.25	23.56
300	0.63	17.85	22.23	23.48	24.60	24.06
325	0.64	17.86	22.84	22.75	23.61	24.56
350	0.65	17.87	23.67	22.21	22.81	25.05
400	0.67	17.91	25.35	21.77	22.22	26.00
450	0.70	17.95	27.69	21.49	21.82	26.84
500	0.76	18.01	30.31	21.39	21.06	27.34
550	0.77	18.03	29.88	21.01	20.61	27.58
600	0.81	18.07	28.51	20.59	20.21	27.65
650	0.85	18.11	26.20	20.37	19.71	27.45
700	0.88	18.15	24.51	20.23	19.42	26.99
750	0.91	18.18	23.06	19.80	19.00	26.43
800	0.96	18.21	21.62	19.50	18.61	25.80
850	0.99	18.26	20.35	19.36	18.38	25.22
900	1.03	18.30	19.26	19.17	18.04	24.63
950	1.06	18.33	18.32	18.86	17.59	24.13
1000	1.07	18.34	17.91	18.67	17.18	23.52
1050	1.09	18.36	17.53	18.62	16.84	23.18
1100	1.11	18.39	16.85	18.62	16.49	22.87
1150	1.15	18.41	16.01	18.50	16.14	22.75
1200	1.17	18.41	14.96	18.60	15.88	22.76
1250	1.20	18.42	13.90	18.92	15.70	22.98
1300	1.23	18.45	13.07	19.11	15.53	23.48
1400	1.33	18.40	11.21	19.94	15.35	24.85
1500	1.47	18.39	9.88	20.71	15.56	27.39
1600	1.65	18.50	8.36	20.68	15.61	28.57
1700	1.89	18.75	7.46	18.72	15.36	25.72
1800	2.16	19.11	6.79	15.90	14.21	22.20
1900	2.40	19.61	6.48	13.41	12.51	19.44
2000	2.62	20.20	6.49	11.30	10.68	17.57
2100	2.90	20.62	6.74	9.94	8.96	16.43
2200	3.09	21.20	7.62	8.96	7.71	15.97
2300	3.72	21.93	8.37	8.41	6.78	15.70
2400	4.76	23.10	8.96	8.32	6.28	15.70
2500	6.36	24.63	9.35	8.48	6.30	15.74
2600	8.04	25.48	7.65	8.67	6.49	15.49
2700	9.72	25.16	5.76	8.54	6.75	14.87
2800	10.64	23.84	4.26	8.18	6.97	13.97
2900	9.98	21.28	4.66	7.87	7.06	13.17
3000	8.74	18.82	4.96	7.72	7.17	12.48

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