

Directional Coupler

ADC-16-4-75+

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	0.69	16.24	44.44	21.92	24.95	21.73
10	0.67	16.22	46.56	22.60	26.20	22.45
15	0.65	16.21	46.94	23.00	26.96	22.87
20	0.65	16.21	45.59	23.13	27.23	22.99
25	0.66	16.22	44.53	23.16	27.32	23.02
50	0.68	16.23	40.92	23.20	27.41	23.04
75	0.69	16.25	37.35	23.24	27.49	23.11
100	0.70	16.27	35.30	23.28	27.65	23.24
125	0.71	16.28	33.07	23.37	27.83	23.44
150	0.72	16.29	31.77	23.41	28.04	23.62
175	0.72	16.30	30.17	23.47	28.20	23.84
200	0.73	16.32	28.88	23.48	28.38	24.13
225	0.73	16.32	27.87	23.51	28.42	24.45
250	0.73	16.33	26.74	23.49	28.50	24.78
275	0.73	16.34	25.97	23.49	28.53	25.20
300	0.74	16.34	25.14	23.50	28.59	25.65
325	0.75	16.36	24.25	23.53	28.59	26.11
350	0.74	16.36	23.34	23.52	28.47	26.63
375	0.75	16.36	22.80	23.52	28.22	27.21
400	0.75	16.37	21.90	23.52	27.87	27.83
425	0.76	16.37	21.46	23.60	27.57	28.50
450	0.77	16.38	20.79	23.67	27.32	29.23
500	0.78	16.40	19.55	23.89	27.11	30.87
525	0.79	16.39	19.41	23.97	27.02	31.84
550	0.80	16.40	18.54	24.14	26.82	32.77
600	0.83	16.42	17.65	24.65	26.32	34.88
650	0.84	16.42	16.87	25.11	26.01	36.57
700	0.89	16.47	15.86	26.05	25.68	36.79
750	0.89	16.43	15.59	26.95	26.00	35.69
800	0.91	16.43	15.15	28.45	25.87	34.13
850	0.93	16.43	14.73	30.35	25.92	32.71
900	0.95	16.45	14.19	33.12	26.31	31.47
950	0.97	16.44	13.70	36.71	26.82	30.66
975	0.99	16.46	13.71	38.92	27.01	30.48
1000	1.00	16.45	13.37	40.23	27.13	29.88
1050	1.03	16.46	13.02	38.51	27.46	29.62
1100	1.06	16.46	12.56	34.01	28.00	29.55
1150	1.09	16.45	12.02	30.91	28.21	29.74
1200	1.13	16.45	11.31	28.57	28.07	30.05
1250	1.17	16.45	10.46	26.67	28.02	30.73
1300	1.21	16.43	9.61	25.34	27.93	31.66
1400	1.29	16.30	8.08	23.12	26.92	33.68
1500	1.38	16.10	6.85	21.58	26.55	33.15
1600	1.49	15.92	5.53	20.31	26.21	29.14
1700	1.61	15.84	4.61	19.19	26.53	25.56
1800	1.77	15.77	3.90	18.11	27.86	22.54
1900	2.01	15.96	3.30	17.10	29.39	20.21
2000	2.22	16.12	2.96	16.37	29.23	18.53
2200	2.62	17.15	1.88	14.96	23.32	16.35
2400	2.85	18.30	0.35	14.12	18.97	15.35
2500	3.04	18.63	-0.29	14.37	17.58	15.23
2600	3.22	19.00	-0.57	15.11	16.99	15.39
2800	3.77	19.39	-1.09	17.46	16.76	16.06
3000	3.81	21.56	-2.69	18.23	17.50	16.56

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Directional Coupler

ADC-16-4-75+

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	0.92	16.58	29.07	18.27	19.92	17.77
10	0.75	16.33	32.46	20.84	23.39	20.36
15	0.65	16.18	34.94	22.65	26.03	22.14
20	0.61	16.13	36.52	23.70	27.84	23.09
25	0.60	16.12	36.59	24.32	29.02	23.50
50	0.59	16.11	37.20	26.58	33.55	24.66
75	0.59	16.11	35.11	26.77	33.82	25.36
100	0.59	16.11	33.38	25.49	31.47	25.99
125	0.59	16.12	31.27	24.87	30.43	26.52
150	0.59	16.13	30.28	25.24	30.88	26.79
175	0.60	16.13	29.04	25.83	32.25	26.83
200	0.60	16.13	28.13	25.49	32.53	26.69
225	0.60	16.13	27.02	24.60	30.81	26.47
250	0.60	16.13	25.99	24.10	29.30	26.20
275	0.61	16.14	25.33	24.24	28.76	26.06
300	0.61	16.13	24.68	24.46	29.01	26.01
325	0.62	16.14	23.98	24.20	29.09	26.07
350	0.62	16.15	23.09	23.69	28.43	26.28
375	0.62	16.15	22.52	23.39	27.49	26.59
400	0.63	16.16	21.93	23.55	27.14	26.96
425	0.63	16.15	21.44	23.46	26.68	27.40
450	0.63	16.16	20.78	23.20	26.40	27.90
500	0.65	16.16	19.60	22.85	25.41	28.93
525	0.65	16.17	19.49	23.00	25.14	29.49
550	0.66	16.17	18.69	23.13	24.90	29.91
600	0.69	16.19	17.79	23.24	24.12	30.79
650	0.70	16.19	17.09	23.98	23.71	31.26
700	0.76	16.26	16.12	24.95	23.42	30.97
750	0.73	16.20	15.86	25.63	23.14	30.26
800	0.74	16.20	15.51	28.52	23.36	29.26
850	0.76	16.19	15.14	31.48	23.64	28.26
900	0.78	16.21	14.67	37.70	24.24	27.30
950	0.80	16.22	14.18	42.62	25.09	26.54
975	0.82	16.23	14.19	37.01	25.39	26.33
1000	0.82	16.23	13.88	33.14	25.59	25.85
1050	0.85	16.24	13.62	28.72	26.02	25.61
1100	0.88	16.25	13.12	25.13	25.91	25.55
1150	0.91	16.26	12.48	22.88	25.75	25.78
1200	0.95	16.26	11.71	21.72	25.89	26.08
1250	0.99	16.26	10.77	20.27	25.70	26.59
1300	1.02	16.25	9.78	19.63	26.17	27.06
1400	1.10	16.15	8.04	19.24	27.78	27.86
1500	1.17	15.92	6.71	19.99	32.89	27.68
1600	1.25	15.73	5.32	21.31	29.54	26.84
1700	1.36	15.64	4.38	23.60	23.01	25.71
1800	1.54	15.64	3.65	24.31	19.02	24.25
1900	1.79	15.89	3.07	22.24	18.08	22.73
2000	2.03	16.16	2.67	18.72	18.05	20.94
2200	2.33	17.35	1.46	13.65	28.52	16.68
2400	2.58	18.49	-0.17	9.84	18.60	13.73
2500	2.84	18.82	-0.89	9.25	14.25	13.35
2600	3.11	19.13	-1.20	10.32	12.37	13.70
2800	3.72	19.49	-1.78	14.60	11.22	15.67
3000	3.62	21.99	-3.74	29.50	12.63	18.81

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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	0.83	16.48	43.85	20.46	22.86	20.28
10	0.78	16.41	49.64	21.29	24.16	21.12
15	0.76	16.38	55.95	21.75	24.88	21.63
20	0.76	16.37	62.71	21.82	25.03	21.80
25	0.76	16.37	56.49	21.74	24.97	21.86
50	0.77	16.39	44.14	21.17	24.21	21.90
75	0.79	16.41	39.52	21.08	24.05	21.84
100	0.80	16.42	36.84	21.64	24.83	21.85
125	0.81	16.44	34.39	22.41	26.07	21.93
150	0.82	16.45	33.08	22.60	26.75	22.08
175	0.82	16.47	31.10	22.34	26.53	22.35
200	0.83	16.48	29.84	22.18	26.30	22.73
225	0.83	16.50	28.53	22.47	26.57	23.22
250	0.84	16.51	27.41	22.97	27.36	23.76
275	0.84	16.52	26.47	23.36	28.30	24.46
300	0.84	16.54	25.44	23.42	28.82	25.19
325	0.85	16.56	24.51	23.32	28.80	25.97
350	0.85	16.57	23.68	23.35	28.59	26.79
375	0.86	16.58	22.94	23.61	28.44	27.69
400	0.86	16.60	22.18	23.96	28.53	28.64
425	0.87	16.61	21.57	24.28	28.66	29.59
450	0.87	16.63	20.77	24.38	28.78	30.68
500	0.89	16.65	19.48	24.47	28.87	32.88
525	0.90	16.67	19.22	24.67	28.91	34.18
550	0.90	16.69	18.39	24.99	28.89	35.53
600	0.93	16.72	17.40	25.55	28.45	38.73
650	0.95	16.75	16.50	25.74	28.13	42.66
700	1.00	16.82	15.50	26.89	27.92	46.08
750	0.99	16.78	15.12	27.12	28.07	43.85
800	1.01	16.80	14.61	28.02	27.79	40.70
850	1.03	16.80	14.19	29.05	27.90	38.22
900	1.06	16.81	13.61	30.41	28.05	36.06
950	1.08	16.82	13.08	31.33	27.98	34.44
975	1.10	16.86	13.07	32.29	27.85	33.86
1000	1.10	16.82	12.71	33.88	27.88	32.80
1050	1.14	16.84	12.37	35.95	28.27	31.85
1100	1.16	16.84	11.93	38.05	28.58	31.24
1150	1.20	16.83	11.35	36.63	28.16	30.98
1200	1.23	16.82	10.75	33.41	28.21	30.86
1250	1.28	16.80	10.00	30.43	28.25	31.15
1300	1.32	16.78	9.22	28.16	27.64	31.84
1400	1.40	16.64	7.84	24.58	25.86	34.33
1500	1.49	16.43	6.72	22.14	24.92	36.05
1600	1.59	16.26	5.47	20.16	23.76	30.64
1700	1.72	16.14	4.65	18.44	24.29	25.54
1800	1.86	16.05	3.98	17.14	26.33	21.78
1900	2.06	16.22	3.46	16.30	32.76	19.27
2000	2.26	16.32	3.16	15.83	33.58	17.60
2200	2.64	17.20	2.33	15.54	20.64	16.25
2400	2.87	18.14	1.03	15.91	17.29	16.37
2500	3.05	18.37	0.43	16.40	17.46	16.45
2600	3.24	18.64	0.20	16.97	18.48	16.37
2800	3.85	18.85	-0.31	17.52	20.16	15.69
3000	3.99	20.48	-1.39	16.54	17.09	15.19

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