

Directional Coupler

ADC-25-4-75+

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	0.12	26.45	21.44	22.11	22.09	21.30
10	0.16	26.48	25.50	26.74	26.89	26.30
15	0.18	26.50	28.07	29.93	30.21	29.75
20	0.17	26.50	29.14	31.67	32.07	31.66
25	0.16	26.51	29.79	32.94	33.48	33.08
50	0.15	26.51	30.26	37.44	38.48	37.42
75	0.15	26.50	28.74	38.95	40.05	37.24
100	0.16	26.47	27.76	38.32	38.83	35.14
125	0.16	26.42	26.34	36.70	36.77	32.98
150	0.17	26.38	25.23	35.04	34.92	31.20
175	0.17	26.30	24.06	33.60	33.37	29.71
200	0.18	26.27	23.46	32.35	32.00	28.28
225	0.19	26.19	22.77	31.31	30.74	27.23
250	0.19	26.11	21.94	30.44	29.78	26.32
275	0.20	26.03	21.31	29.73	29.01	25.50
300	0.21	25.95	20.42	28.97	28.38	24.75
350	0.22	25.71	19.52	27.87	27.78	23.48
375	0.23	25.61	19.26	27.44	27.52	22.96
400	0.24	25.48	19.06	27.11	27.21	22.47
450	0.25	25.24	18.22	26.56	26.44	21.64
475	0.26	25.12	18.17	26.38	26.32	21.27
500	0.27	25.01	17.84	26.27	26.46	20.95
550	0.31	24.85	17.16	25.90	26.94	20.43
575	0.31	24.71	17.70	26.10	27.72	20.23
600	0.32	24.64	17.26	26.01	27.83	20.01
650	0.35	24.50	17.32	26.33	28.29	19.74
700	0.37	24.42	17.75	26.84	29.78	19.54
750	0.39	24.40	18.40	27.56	33.20	19.41
800	0.40	24.41	19.23	28.37	38.26	19.30
850	0.42	24.43	20.08	29.01	43.39	19.23
900	0.43	24.43	21.25	28.85	38.05	19.09
950	0.43	24.41	22.95	27.72	32.06	19.03
975	0.44	24.38	23.07	26.86	30.19	19.00
1000	0.45	24.33	23.41	25.95	28.72	18.98
1050	0.46	24.30	23.03	24.12	26.24	18.88
1100	0.48	24.19	22.05	22.37	23.96	18.86
1150	0.51	24.09	20.86	20.86	22.20	18.92
1200	0.56	23.99	19.37	19.53	20.93	18.96
1250	0.60	23.95	17.53	18.47	19.81	19.15
1300	0.63	23.78	16.30	17.38	18.68	19.27
1400	0.69	23.52	13.62	15.93	17.30	19.72
1500	0.71	23.14	12.53	14.73	16.08	20.29
1600	0.68	22.69	11.85	13.95	15.48	20.88
1700	0.63	22.27	11.40	13.31	14.74	21.40
1800	0.59	21.77	11.95	12.90	14.61	21.92
1900	0.69	21.25	12.67	12.70	14.62	22.31
2000	0.85	20.96	14.07	12.75	15.02	22.21
2200	1.33	20.89	13.18	12.78	15.71	20.86
2400	1.49	21.08	9.64	12.46	15.89	18.46
2500	1.40	20.97	7.25	12.35	16.04	16.95
2600	1.30	20.66	5.87	12.39	15.80	15.32
2800	1.30	19.04	4.13	11.85	15.27	12.41
3000	2.07	18.22	5.67	10.15	14.10	9.79

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Directional Coupler

ADC-25-4-75+

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	0.14	26.32	15.57	16.04	15.98	14.92
10	0.10	26.44	20.82	22.45	22.40	21.01
15	0.09	26.50	24.53	27.46	27.46	25.69
20	0.12	26.52	26.71	31.08	31.16	28.98
25	0.12	26.51	27.60	33.64	33.83	30.97
50	0.12	26.52	29.06	42.39	41.93	40.82
75	0.11	26.51	28.50	39.06	38.97	43.63
100	0.11	26.49	27.54	40.38	41.12	38.61
125	0.11	26.45	25.99	43.36	44.86	35.85
150	0.11	26.40	25.10	39.46	38.98	34.19
175	0.11	26.32	23.83	38.54	37.50	33.10
200	0.12	26.28	23.16	40.63	39.41	31.70
225	0.12	26.19	22.59	38.58	38.57	30.63
250	0.12	26.10	21.80	33.95	33.96	29.42
275	0.12	26.00	21.24	31.40	31.09	28.09
300	0.13	25.90	20.53	30.72	30.28	26.80
350	0.13	25.67	19.43	29.60	29.94	24.65
375	0.14	25.52	19.18	28.15	28.65	23.80
400	0.14	25.41	18.53	26.98	27.30	23.06
450	0.15	25.13	17.89	26.18	26.24	21.94
475	0.16	24.99	17.75	25.58	25.84	21.46
500	0.16	24.85	17.31	24.99	25.47	21.03
550	0.22	24.73	17.26	24.89	25.75	20.31
575	0.20	24.52	16.69	24.56	25.72	20.00
600	0.21	24.42	16.37	24.20	25.61	19.68
650	0.23	24.27	16.06	23.98	25.44	19.26
700	0.25	24.20	16.20	24.55	26.71	19.01
750	0.27	24.19	16.31	24.99	28.40	18.93
800	0.28	24.28	16.40	27.90	31.04	18.92
850	0.29	24.40	16.59	30.06	32.46	18.91
900	0.29	24.48	16.83	32.04	30.10	18.81
950	0.29	24.52	17.35	30.44	27.03	18.79
975	0.28	24.52	17.09	28.21	25.86	18.79
1000	0.29	24.53	17.02	26.51	24.69	18.77
1050	0.29	24.46	16.44	23.00	22.34	18.84
1100	0.30	24.37	16.04	19.89	20.54	18.99
1150	0.32	24.25	15.56	18.08	19.06	19.25
1200	0.37	24.14	14.96	16.60	18.02	19.50
1250	0.42	24.04	13.91	15.40	17.40	19.98
1300	0.44	23.88	13.43	14.75	16.69	20.47
1400	0.49	23.51	11.84	13.89	16.27	21.47
1500	0.49	23.10	10.84	13.88	16.49	21.16
1600	0.43	22.52	10.49	14.46	17.35	20.47
1700	0.34	21.95	10.68	15.15	16.50	20.18
1800	0.30	21.38	11.50	15.81	15.63	19.86
1900	0.38	20.85	12.43	15.51	13.80	19.37
2000	0.55	20.49	14.18	14.10	12.85	19.67
2200	0.96	20.41	12.27	10.51	11.84	22.24
2400	1.11	20.69	8.04	8.32	13.31	20.15
2500	1.05	20.65	5.83	8.17	15.83	19.53
2600	0.99	20.19	4.80	9.15	20.93	17.55
2800	0.97	18.41	3.86	12.83	16.20	12.85
3000	1.95	17.74	6.14	17.48	9.67	9.38

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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	0.24	26.47	25.92	26.43	26.58	26.26
10	0.22	26.48	28.28	29.06	29.29	29.42
15	0.21	26.49	29.82	30.84	31.14	31.76
20	0.20	26.49	30.54	31.79	32.13	33.29
25	0.19	26.50	30.87	32.13	32.52	34.22
50	0.19	26.51	30.50	32.46	32.81	36.34
75	0.19	26.50	29.04	31.81	31.83	35.26
100	0.20	26.47	27.73	31.59	31.32	33.37
125	0.21	26.44	26.33	32.53	32.01	31.44
150	0.22	26.38	25.28	33.35	32.78	29.77
175	0.23	26.34	24.50	32.08	31.62	28.20
200	0.24	26.30	23.87	29.84	29.45	26.96
225	0.24	26.24	22.83	28.48	28.02	25.96
250	0.26	26.17	22.10	28.27	27.62	25.16
275	0.27	26.11	21.30	28.58	27.67	24.48
300	0.28	26.02	20.50	28.53	27.68	23.91
350	0.29	25.82	19.85	27.20	26.96	23.05
375	0.30	25.72	19.66	26.94	26.87	22.70
400	0.31	25.62	19.21	27.07	26.95	22.37
450	0.33	25.42	18.75	27.76	27.40	21.86
475	0.34	25.32	18.68	27.71	27.55	21.62
500	0.35	25.21	18.38	27.71	27.83	21.40
550	0.41	25.11	18.43	28.70	29.60	21.05
575	0.40	24.97	18.34	28.45	30.17	20.91
600	0.41	24.90	18.13	28.67	30.88	20.73
650	0.43	24.77	18.24	28.87	31.31	20.50
700	0.46	24.66	18.84	28.88	32.99	20.28
750	0.48	24.57	19.67	28.70	36.96	20.08
800	0.50	24.51	20.75	28.04	40.48	19.89
850	0.51	24.45	21.83	27.48	42.35	19.73
900	0.53	24.36	23.22	26.81	45.21	19.48
950	0.55	24.28	25.68	26.08	36.30	19.29
975	0.55	24.24	27.02	25.86	33.97	19.20
1000	0.57	24.31	33.16	25.54	32.02	19.03
1050	0.59	24.13	42.68	24.58	29.20	18.90
1100	0.62	24.03	37.30	23.59	26.36	18.78
1150	0.65	23.94	29.57	22.39	24.19	18.75
1200	0.70	23.86	24.66	21.28	22.58	18.71
1250	0.75	23.83	20.78	20.14	21.11	18.86
1300	0.79	23.71	18.77	18.77	19.54	18.98
1400	0.86	23.44	15.55	16.62	17.55	19.59
1500	0.89	23.17	13.83	14.88	15.82	20.61
1600	0.88	22.77	12.80	13.71	14.92	22.07
1700	0.84	22.45	12.20	12.72	14.23	23.91
1800	0.81	22.01	12.04	12.27	14.47	25.79
1900	0.91	21.66	12.93	12.20	14.97	26.18
2000	1.08	21.30	14.15	12.66	16.36	24.86
2200	1.57	21.27	14.63	13.76	17.98	21.30
2400	1.76	21.44	10.59	13.98	15.79	18.25
2500	1.66	21.33	8.08	13.52	14.94	16.74
2600	1.57	21.06	6.82	12.80	14.39	15.30
2800	1.55	19.60	4.68	11.24	15.06	12.87
3000	2.28	18.74	5.64	9.28	16.11	10.58

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