

Directional Coupler

LRDC-12-1-75

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
1	0.86	12.81	18.80	22.00	19.24	17.29
2	0.72	12.54	19.90	25.74	21.44	19.50
5	0.58	12.29	20.97	32.66	24.20	22.35
6	0.57	12.27	21.21	34.20	24.49	22.61
7	0.57	12.26	21.15	35.50	24.73	22.77
8	0.57	12.26	21.19	36.66	24.85	22.93
9	0.57	12.25	21.28	37.73	24.93	23.01
10	0.57	12.24	21.33	38.54	25.00	23.04
20	0.58	12.27	21.38	41.20	25.09	23.04
30	0.59	12.30	21.01	40.25	25.04	22.86
40	0.61	12.31	21.19	38.77	24.85	22.61
50	0.61	12.32	21.12	37.13	24.66	22.39
75	0.64	12.35	21.42	33.05	24.34	21.78
100	0.66	12.38	21.49	30.70	24.20	21.26
125	0.68	12.38	21.81	28.92	23.93	20.65
150	0.70	12.38	22.06	27.56	23.73	20.05
175	0.71	12.38	22.69	26.57	23.39	19.41
200	0.73	12.36	23.19	25.28	23.00	18.81
225	0.75	12.36	24.17	24.50	22.70	18.28
250	0.77	12.36	24.38	23.72	22.36	17.67
275	0.79	12.34	25.71	23.18	22.08	17.17
300	0.81	12.34	26.17	22.71	21.71	16.62
325	0.84	12.32	26.78	22.32	21.38	16.19
350	0.86	12.31	26.53	21.91	21.08	15.72
375	0.90	12.29	26.31	21.69	20.81	15.30
400	0.93	12.28	24.82	21.63	20.71	14.94
425	0.96	12.27	23.39	21.54	20.54	14.53
450	1.00	12.26	21.93	21.51	20.39	14.21
475	1.04	12.25	20.89	21.58	20.24	13.82
500	1.07	12.24	19.00	21.61	20.00	13.49
525	1.12	12.23	18.30	21.95	19.88	13.21
550	1.17	12.24	16.68	22.02	19.69	12.87
575	1.22	12.24	15.94	22.65	19.76	12.61
600	1.27	12.24	14.67	23.24	19.60	12.29
625	1.32	12.26	14.03	23.93	19.72	12.00
650	1.38	12.28	12.89	24.77	19.61	11.79
700	1.50	12.33	11.38	26.99	19.55	11.22
750	1.62	12.43	9.88	30.84	19.59	10.64
800	1.77	12.57	8.58	39.44	19.54	10.10
850	1.90	12.72	7.42	40.02	19.81	9.64
900	2.04	12.95	6.11	29.29	20.24	9.15
950	2.19	13.25	4.77	25.06	20.68	8.67
1000	2.35	13.60	3.60	22.44	21.11	8.20
1050	2.52	14.01	2.52	20.32	21.98	7.77
1100	2.68	14.47	1.39	18.85	23.24	7.45
1200	2.93	15.54	0.76	16.32	27.14	6.86
1300	3.13	16.64	2.32	15.03	33.34	6.40
1400	3.30	17.77	4.09	14.02	32.37	6.13
1500	3.47	18.64	4.75	13.54	28.84	5.95
1600	3.63	19.00	5.02	13.10	25.11	6.02
1700	3.97	18.48	4.85	12.93	23.06	6.13
1800	4.42	17.62	3.42	12.75	20.81	6.60
1900	5.00	16.50	3.26	12.77	18.78	7.23
2000	5.59	15.68	2.05	12.48	17.10	7.98

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Directional Coupler

LRDC-12-1-75

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
1	0.87	12.78	17.73	22.35	19.46	18.21
2	0.84	12.74	18.45	25.60	20.52	19.12
5	0.71	12.53	19.78	29.94	22.31	20.55
6	0.68	12.45	20.12	31.08	22.78	21.00
7	0.65	12.42	20.45	32.33	23.24	21.38
8	0.63	12.37	20.72	33.61	23.67	21.76
9	0.61	12.34	20.92	34.87	23.98	22.05
10	0.60	12.32	21.03	36.05	24.20	22.27
20	0.57	12.26	21.40	38.66	25.53	23.13
30	0.57	12.29	21.34	35.10	26.29	23.16
40	0.57	12.28	21.29	32.83	26.97	23.11
50	0.57	12.28	21.35	31.87	27.67	23.06
75	0.58	12.29	21.57	32.18	28.14	22.72
100	0.59	12.30	21.85	34.46	26.76	22.32
125	0.61	12.29	22.27	31.80	25.28	21.80
150	0.61	12.29	22.30	28.40	24.92	21.27
175	0.62	12.28	23.09	27.51	25.20	20.67
200	0.64	12.26	23.40	27.65	25.38	20.05
225	0.65	12.24	24.40	27.53	24.61	19.40
250	0.67	12.24	24.49	25.78	23.39	18.65
275	0.69	12.22	25.91	24.36	22.69	17.97
300	0.70	12.19	26.24	23.55	22.33	17.27
325	0.72	12.18	27.33	23.35	22.19	16.66
350	0.74	12.16	26.85	22.79	21.69	16.06
375	0.77	12.14	26.69	22.10	21.10	15.50
400	0.80	12.11	25.44	21.67	20.74	15.04
425	0.83	12.08	23.95	21.25	20.49	14.57
450	0.86	12.07	22.69	20.92	20.23	14.20
475	0.90	12.05	21.27	20.71	19.89	13.79
500	0.93	12.03	19.57	20.60	19.47	13.43
525	0.97	12.01	18.77	20.94	19.24	13.14
550	1.01	12.00	17.08	20.96	19.04	12.76
575	1.06	11.99	16.38	21.08	18.97	12.49
600	1.11	11.99	15.08	20.98	18.58	12.13
625	1.16	11.98	14.49	21.31	18.56	11.82
650	1.21	12.00	13.28	22.25	18.48	11.57
700	1.33	12.01	11.68	24.87	18.49	10.99
750	1.45	12.07	10.12	27.54	18.34	10.42
800	1.59	12.20	8.77	33.69	18.50	9.91
850	1.73	12.37	7.51	31.75	18.97	9.50
900	1.88	12.59	6.07	25.07	19.73	9.09
950	2.02	12.91	4.66	21.52	20.85	8.65
1000	2.19	13.30	3.38	18.71	21.94	8.23
1050	2.36	13.79	2.14	16.98	24.16	7.84
1100	2.53	14.35	0.87	15.96	27.91	7.55
1200	2.74	15.56	1.42	14.22	44.33	6.96
1300	2.89	16.83	3.08	13.96	30.33	6.29
1400	3.02	18.15	4.93	13.98	28.34	5.73
1500	3.12	18.98	5.43	14.65	32.88	5.32
1600	3.27	19.24	5.46	15.21	42.52	5.33
1700	3.60	18.41	4.90	13.62	30.53	5.54
1800	4.11	17.57	3.40	12.86	22.99	6.26
1900	4.67	16.19	3.07	10.91	17.50	7.16
2000	5.28	15.40	1.80	9.89	13.59	8.08

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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
1	1.08	13.21	17.25	19.30	17.36	15.46
2	0.86	12.81	18.65	22.80	19.82	17.89
5	0.66	12.43	20.24	29.41	23.24	21.30
6	0.64	12.42	20.51	30.89	23.73	21.71
7	0.63	12.40	20.51	32.24	23.98	21.94
8	0.63	12.39	20.62	33.38	24.15	22.14
9	0.63	12.38	20.71	34.37	24.26	22.27
10	0.63	12.37	20.72	35.20	24.34	22.34
20	0.64	12.38	20.89	42.86	24.30	22.53
30	0.65	12.41	20.82	51.10	23.95	22.38
40	0.67	12.43	20.93	42.60	23.30	22.10
50	0.68	12.44	20.73	37.28	22.83	21.83
75	0.71	12.48	20.94	30.20	22.31	21.25
100	0.74	12.49	21.04	27.82	22.50	20.69
125	0.76	12.50	21.46	27.15	23.07	20.06
150	0.78	12.52	21.85	27.30	23.21	19.49
175	0.80	12.51	22.30	26.50	22.58	18.88
200	0.82	12.51	22.90	24.68	21.89	18.37
225	0.85	12.51	24.02	23.45	21.62	17.85
250	0.87	12.51	24.46	22.94	21.64	17.36
275	0.89	12.52	25.96	22.98	21.85	16.91
300	0.92	12.50	26.66	22.89	21.71	16.49
325	0.95	12.51	27.39	22.54	21.27	16.10
350	0.98	12.51	26.84	21.98	20.85	15.74
375	1.02	12.50	26.57	21.78	20.66	15.37
400	1.05	12.50	24.82	22.03	20.82	15.05
425	1.09	12.49	23.50	22.38	20.95	14.73
450	1.13	12.50	21.93	22.66	20.91	14.43
475	1.18	12.51	20.44	22.82	20.88	14.11
500	1.22	12.52	18.72	22.78	20.58	13.80
525	1.27	12.51	18.03	23.10	20.46	13.51
550	1.32	12.55	16.30	23.43	20.40	13.18
575	1.37	12.55	15.58	24.39	20.54	12.90
600	1.43	12.58	14.36	25.27	20.52	12.57
625	1.48	12.60	13.72	25.92	20.63	12.26
650	1.54	12.62	12.65	26.55	20.41	12.01
700	1.66	12.70	11.18	28.15	20.20	11.40
750	1.78	12.80	9.90	31.58	20.27	10.76
800	1.92	12.92	8.67	35.53	20.04	10.17
850	2.05	13.09	7.62	47.83	19.93	9.66
900	2.19	13.28	6.49	36.66	20.15	9.15
950	2.33	13.51	5.31	30.49	20.13	8.67
1000	2.48	13.76	4.34	27.00	20.12	8.23
1050	2.64	14.05	3.43	23.83	20.53	7.84
1100	2.83	14.40	2.43	21.51	21.10	7.55
1200	3.10	15.10	0.59	18.12	22.71	7.11
1300	3.35	15.86	0.78	15.98	24.77	6.85
1400	3.57	16.62	2.39	14.39	26.25	6.77
1500	3.78	17.23	3.02	13.54	25.79	6.75
1600	3.95	17.64	3.52	13.06	23.95	6.88
1700	4.28	17.67	3.98	13.18	22.88	6.86
1800	4.67	17.45	3.11	13.47	22.72	7.06
1900	5.19	16.81	3.39	14.24	22.82	7.40
2000	5.72	16.25	2.42	14.55	23.01	7.97

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