

Directional Coupler

LRDC-12-1-75J

Typical Performance Data

TEST CONDITIONS: INPUT POWER =0 dBm @Temperature = +25°C

FREQUENCY (MHz)	INSERTION LOSS (dB)	COUPLING LOSS (dB)	DIRECTIVITY (dB)	RETURN LOSS		
				IN	(dB) OUT	CPL
1	0.80	12.47	27.55	20.24	24.72	20.70
2	0.71	12.40	27.78	21.85	28.64	22.17
5	0.64	12.34	28.15	23.43	35.13	23.54
6	0.63	12.33	28.31	23.61	36.77	23.66
7	0.63	12.33	27.83	23.72	37.86	23.76
8	0.62	12.34	28.19	23.80	38.76	23.82
9	0.62	12.34	28.26	23.87	39.88	23.88
10	0.62	12.33	27.98	23.94	41.12	23.94
20	0.62	12.34	27.93	24.28	46.51	24.18
30	0.62	12.34	28.07	24.33	44.03	24.15
40	0.63	12.34	28.37	24.32	40.38	24.08
50	0.63	12.35	28.18	24.25	37.28	23.98
75	0.65	12.37	27.30	24.06	33.51	23.81
100	0.66	12.37	27.45	23.85	30.89	23.44
125	0.67	12.39	26.97	23.42	28.69	23.00
150	0.69	12.40	26.99	23.06	27.09	22.61
175	0.70	12.39	26.18	22.55	25.76	22.05
200	0.71	12.39	26.35	22.03	24.57	21.58
225	0.73	12.40	25.41	21.58	23.66	21.02
250	0.74	12.41	25.01	21.09	22.76	20.52
275	0.75	12.41	24.71	20.68	22.00	20.06
300	0.77	12.42	24.31	20.26	21.39	19.57
325	0.79	12.40	23.90	19.95	20.73	19.13
350	0.81	12.40	23.35	19.55	20.20	18.71
375	0.83	12.41	23.04	19.22	19.73	18.32
400	0.85	12.41	22.32	19.01	19.34	17.98
425	0.87	12.42	21.92	18.74	19.08	17.64
450	0.90	12.42	21.26	18.56	18.71	17.36
475	0.93	12.42	20.96	18.38	18.43	17.06
500	0.96	12.44	20.11	18.19	18.21	16.83
550	1.03	12.48	19.09	17.90	17.82	16.43
600	1.10	12.53	18.16	17.86	17.57	16.14
650	1.19	12.60	17.07	17.87	17.59	16.02
700	1.29	12.72	16.06	18.02	17.67	16.05
750	1.39	12.89	15.11	18.22	17.92	16.21
800	1.52	13.08	13.96	18.52	18.12	16.53
850	1.65	13.42	12.49	18.98	18.63	17.07
900	1.79	13.81	11.27	19.78	19.33	17.75
950	1.96	14.28	10.19	20.68	19.99	18.67
1000	2.15	14.85	9.18	21.92	20.42	19.76
1050	2.30	15.44	8.16	22.75	20.71	20.86
1100	2.49	16.04	7.02	24.12	21.07	21.90
1200	2.86	17.18	5.07	25.54	20.43	23.54
1300	3.18	17.80	4.31	24.24	19.36	23.97
1400	3.38	17.88	3.32	22.55	19.05	23.36
1500	3.39	17.61	3.18	21.53	19.00	22.01
1600	3.25	17.10	3.75	20.52	19.58	20.32
1700	3.12	16.66	3.53	19.55	20.10	18.57
1800	2.99	16.23	4.77	18.67	20.61	16.91
1900	2.96	16.00	3.68	18.10	20.82	15.46
2000	2.98	15.77	3.54	17.56	20.91	14.07

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Directional Coupler

LRDC-12-1-75J

Typical Performance Data

TEST CONDITIONS: INPUT POWER =0 dBm @Temperature = -40°C

FREQUENCY (MHz)	INSERTION LOSS (dB)	COUPLING LOSS (dB)	DIRECTIVITY (dB)	RETURN LOSS		
				IN	OUT	CPL
1	0.97	12.64	26.75	17.14	19.16	17.35
2	0.92	12.61	27.45	18.89	22.55	19.03
5	0.79	12.50	27.93	20.89	26.52	20.96
6	0.75	12.47	27.66	21.38	27.55	21.42
7	0.71	12.43	27.99	21.90	28.64	21.88
8	0.68	12.41	28.16	22.38	29.73	22.32
9	0.66	12.40	28.20	22.79	30.85	22.74
10	0.65	12.38	28.21	23.16	32.08	23.11
20	0.58	12.33	28.43	25.24	46.12	24.74
30	0.56	12.31	28.30	26.15	40.07	25.19
40	0.56	12.31	28.49	26.96	36.20	25.42
50	0.56	12.32	27.91	27.66	33.96	25.55
75	0.57	12.31	28.05	28.06	33.36	25.59
100	0.57	12.32	27.77	26.55	35.72	25.49
125	0.58	12.31	26.96	24.84	31.71	25.09
150	0.59	12.32	27.36	24.24	27.95	24.73
175	0.59	12.32	26.71	24.30	26.76	24.10
200	0.60	12.31	26.34	24.22	26.57	23.59
225	0.61	12.32	25.73	23.35	26.17	22.84
250	0.62	12.31	25.35	21.95	24.43	22.00
275	0.63	12.31	24.79	21.22	22.96	21.28
300	0.64	12.31	24.29	20.76	22.22	20.43
325	0.65	12.30	24.00	20.49	21.63	19.77
350	0.67	12.30	23.29	19.86	21.05	19.07
375	0.69	12.28	22.84	19.19	20.25	18.47
400	0.71	12.30	22.14	18.76	19.67	17.96
425	0.73	12.29	21.77	18.31	19.20	17.50
450	0.75	12.28	21.06	17.95	18.83	17.12
475	0.78	12.28	20.76	17.59	18.38	16.73
500	0.80	12.30	19.69	17.36	17.81	16.42
550	0.87	12.32	18.61	17.13	17.27	15.86
600	0.93	12.37	17.51	16.54	16.77	15.43
650	1.01	12.42	16.35	16.67	16.61	15.21
700	1.10	12.54	15.05	17.10	16.74	15.20
750	1.20	12.69	14.07	17.14	16.82	15.37
800	1.31	12.92	12.73	17.89	17.21	15.90
850	1.44	13.22	11.19	18.82	17.89	16.68
900	1.58	13.65	9.71	20.42	19.10	17.67
950	1.75	14.24	8.36	22.22	20.60	18.94
1000	1.93	14.92	7.14	25.15	21.74	19.96
1050	2.13	15.73	5.86	24.92	22.52	20.66
1100	2.32	16.59	4.50	23.39	23.29	20.64
1200	2.72	18.05	2.32	19.21	22.98	20.21
1300	3.06	18.71	1.58	17.90	22.29	20.16
1400	3.22	18.45	1.13	18.16	22.11	20.61
1500	3.10	17.67	1.60	20.77	20.82	20.63
1600	2.84	16.83	2.61	27.40	18.55	20.60
1700	2.59	16.13	2.73	25.60	16.53	19.85
1800	2.43	15.61	4.22	24.96	15.64	18.32
1900	2.35	15.22	3.23	19.09	15.10	16.62
2000	2.44	15.07	3.04	16.42	15.77	14.11

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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		
				IN	(dB) OUT	CPL
1	1.03	12.63	26.42	18.42	22.01	18.65
2	0.87	12.51	26.93	20.21	25.27	20.38
5	0.74	12.41	27.25	22.28	30.66	22.29
6	0.72	12.42	27.29	22.51	31.84	22.55
7	0.71	12.40	27.49	22.72	32.66	22.70
8	0.71	12.40	27.63	22.82	33.36	22.85
9	0.70	12.40	27.59	22.90	33.89	22.96
10	0.70	12.40	27.46	23.00	34.33	23.03
20	0.69	12.41	27.72	23.29	37.04	23.40
30	0.69	12.40	27.38	23.06	36.90	23.53
40	0.70	12.40	27.84	22.79	35.44	23.44
50	0.71	12.42	27.08	22.38	33.61	23.43
75	0.72	12.43	27.03	21.90	29.82	23.05
100	0.74	12.44	26.87	22.11	27.72	22.67
125	0.75	12.46	26.54	22.47	26.87	22.15
150	0.77	12.48	26.59	22.65	26.38	21.75
175	0.78	12.48	25.89	22.05	25.34	21.24
200	0.80	12.48	25.83	21.21	23.74	20.79
225	0.81	12.49	25.32	20.78	22.55	20.35
250	0.83	12.49	24.96	20.57	21.82	19.89
275	0.85	12.51	24.54	20.59	21.48	19.54
300	0.87	12.51	24.16	20.36	21.22	19.12
325	0.89	12.51	23.80	19.99	20.57	18.89
350	0.91	12.52	23.24	19.56	19.97	18.60
375	0.94	12.53	22.92	19.29	19.47	18.31
400	0.96	12.54	22.37	19.30	19.24	18.10
425	0.99	12.54	22.20	19.23	19.12	17.83
450	1.01	12.55	21.34	19.14	18.98	17.69
475	1.04	12.56	21.34	18.96	18.83	17.45
500	1.08	12.59	20.38	18.74	18.51	17.26
550	1.15	12.64	19.63	18.55	18.16	16.97
600	1.24	12.71	18.96	18.70	18.11	16.72
650	1.32	12.79	18.10	18.58	18.12	16.62
700	1.43	12.92	17.25	18.51	18.02	16.62
750	1.54	13.09	16.71	18.61	18.15	16.60
800	1.66	13.33	15.91	18.56	18.17	16.78
850	1.78	13.57	14.68	18.78	18.33	17.18
900	1.92	13.90	13.66	19.39	18.71	17.76
950	2.06	14.28	12.89	19.90	18.89	18.59
1000	2.22	14.69	12.17	20.53	18.80	19.42
1050	2.38	15.14	11.38	21.58	18.82	20.41
1100	2.54	15.61	10.40	22.84	18.89	21.53
1200	2.88	16.48	8.68	27.18	18.62	23.98
1300	3.18	17.12	7.71	28.82	18.26	24.97
1400	3.41	17.46	6.37	25.03	18.46	24.39
1500	3.52	17.53	5.61	21.67	18.96	21.94
1600	3.51	17.31	5.88	19.49	20.21	19.83
1700	3.47	17.08	5.24	18.12	21.80	17.82
1800	3.40	16.83	6.19	17.31	22.81	16.16
1900	3.40	16.66	4.79	17.39	22.12	15.11
2000	3.44	16.58	4.25	17.37	20.79	14.11

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