

# Directional Coupler

# LRDC-20-2+

## 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
100	1.27	23.49	14.51	6.55	6.57	6.86
200	0.50	22.32	16.40	11.39	11.42	12.51
250	0.40	22.14	16.31	12.98	13.02	14.70
280	0.36	22.06	16.14	13.78	13.83	15.91
290	0.35	22.04	16.06	14.02	14.07	16.30
300	0.34	22.02	16.00	14.25	14.29	16.69
320	0.33	21.99	15.82	14.67	14.72	17.45
350	0.32	21.94	15.56	15.24	15.29	18.57
400	0.30	21.86	15.10	16.06	16.14	20.42
450	0.29	21.79	14.63	16.72	16.81	22.24
500	0.28	21.72	14.15	17.24	17.34	24.09
550	0.29	21.65	13.78	17.64	17.76	25.86
600	0.28	21.58	13.37	18.02	18.14	27.37
650	0.29	21.51	12.97	18.31	18.42	28.30
700	0.30	21.42	12.71	18.51	18.64	28.33
750	0.31	21.34	12.43	18.71	18.81	27.56
800	0.31	21.25	12.23	18.79	18.90	26.41
880	0.33	21.09	11.99	18.92	19.04	24.48
890	0.33	21.07	11.97	18.93	19.04	24.24
900	0.34	21.04	11.98	18.94	19.05	24.01
920	0.34	21.00	11.92	18.99	19.08	23.56
950	0.35	20.94	11.85	18.98	19.08	22.88
1000	0.36	20.81	11.94	18.97	19.04	21.90
1050	0.38	20.72	11.89	18.97	19.06	20.97
1080	0.38	20.64	11.92	18.95	19.04	20.45
1090	0.39	20.62	11.94	18.94	19.02	20.28
1100	0.40	20.59	12.00	18.91	18.99	20.13
1120	0.40	20.55	11.97	18.94	19.02	19.81
1150	0.41	20.47	12.06	18.85	18.95	19.33
1200	0.43	20.33	12.26	18.83	18.92	18.62
1300	0.47	20.07	12.68	18.63	18.78	17.31
1400	0.51	19.80	13.40	18.45	18.68	16.19
1500	0.56	19.47	14.51	18.19	18.43	15.16
1600	0.61	19.17	16.02	17.99	18.26	14.27
1700	0.67	18.94	17.57	17.67	18.05	13.41
1800	0.73	18.59	19.63	17.43	17.80	12.59
1900	0.79	18.30	21.47	17.19	17.60	11.84
2000	0.86	18.00	20.42	16.86	17.48	11.12
2100	0.94	17.79	17.03	16.57	17.28	10.49
2200	1.00	17.53	14.66	16.25	17.18	9.80
2300	1.08	17.25	12.13	15.88	17.04	9.17
2400	1.14	16.98	10.43	15.53	16.95	8.57
2500	1.23	16.80	8.44	15.27	16.88	8.03
2750	1.47	15.78	5.11	14.57	16.97	6.82
3000	1.79	14.52	3.16	14.33	17.26	5.96
3250	2.25	12.85	2.33	14.77	17.74	5.50
3500	2.92	11.09	2.10	16.20	17.69	5.53
3750	4.07	9.50	2.16	18.83	16.18	6.06
4000	5.83	8.50	2.13	18.71	14.46	6.86
4250	8.96	8.09	2.26	15.42	12.69	7.71
4500	13.62	8.06	3.31	13.38	9.12	8.55
4750	15.14	8.28	7.20	13.14	4.78	8.19
5000	15.82	10.04	20.67	15.87	2.78	6.09

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# Directional Coupler

# LRDC-20-2+

## 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
100	1.26	23.47	14.39	6.49	6.51	6.86
200	0.47	22.30	16.37	11.33	11.36	12.45
250	0.37	22.13	16.24	12.78	12.83	14.59
280	0.33	22.05	16.13	13.61	13.66	15.79
290	0.31	22.02	16.09	13.87	13.92	16.18
300	0.30	22.01	16.04	14.11	14.15	16.57
320	0.29	21.98	15.88	14.54	14.58	17.32
350	0.27	21.92	15.60	15.04	15.08	18.45
400	0.25	21.85	15.14	15.80	15.87	20.27
450	0.24	21.78	14.67	16.44	16.52	22.04
500	0.23	21.71	14.19	16.90	16.99	23.87
550	0.23	21.63	13.85	17.36	17.47	25.69
600	0.22	21.56	13.40	17.63	17.75	27.36
650	0.22	21.49	12.96	17.86	17.96	28.52
700	0.23	21.40	12.73	18.13	18.23	28.73
750	0.23	21.32	12.46	18.28	18.36	27.99
800	0.23	21.23	12.26	18.43	18.51	26.79
880	0.24	21.07	12.08	18.52	18.60	24.76
890	0.24	21.04	12.07	18.50	18.58	24.51
900	0.25	21.02	12.06	18.48	18.56	24.28
920	0.25	20.98	11.97	18.47	18.55	23.81
950	0.25	20.92	11.88	18.40	18.49	23.09
1000	0.27	20.80	11.90	18.37	18.43	22.03
1050	0.27	20.69	11.90	18.47	18.55	21.01
1080	0.28	20.63	11.94	18.48	18.56	20.42
1090	0.29	20.60	11.96	18.45	18.54	20.26
1100	0.29	20.57	12.02	18.40	18.49	20.09
1120	0.29	20.52	12.00	18.41	18.50	19.76
1150	0.30	20.44	12.09	18.34	18.43	19.28
1200	0.31	20.30	12.32	18.36	18.45	18.62
1300	0.34	20.04	12.61	18.04	18.22	17.36
1400	0.38	19.78	13.47	18.18	18.45	16.11
1500	0.42	19.44	14.52	17.87	18.12	15.03
1600	0.46	19.12	16.22	17.65	17.97	14.12
1700	0.51	18.91	17.75	17.27	17.59	13.24
1800	0.57	18.54	20.13	17.11	17.45	12.38
1900	0.62	18.28	22.82	17.14	17.58	11.65
2000	0.69	17.97	21.68	16.76	17.51	10.94
2100	0.75	17.75	17.66	16.47	17.36	10.38
2200	0.83	17.52	14.67	15.53	16.41	9.67
2300	0.88	17.24	12.38	15.67	16.79	9.01
2400	0.93	16.99	10.46	15.34	16.85	8.44
2500	1.03	16.78	8.42	14.80	16.58	7.93
2750	1.24	15.89	4.92	14.09	16.46	6.62
3000	1.53	14.71	2.95	13.68	16.65	5.75
3250	1.92	13.03	2.15	13.99	17.35	5.29
3500	2.54	11.19	1.87	15.09	17.64	5.30
3750	3.55	9.45	1.97	18.22	16.98	5.79
4000	5.12	8.32	2.04	19.38	15.00	6.62
4250	7.94	7.79	2.17	16.09	12.79	7.46
4500	12.66	7.68	3.07	13.61	9.14	8.56
4750	15.75	7.72	6.80	13.20	4.72	8.52
5000	16.06	9.19	19.55	14.66	2.41	5.98

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# Directional Coupler

# LRDC-20-2+

## 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
100	1.28	23.50	14.60	6.60	6.62	6.87
200	0.52	22.33	16.36	11.44	11.47	12.57
250	0.42	22.14	16.34	13.14	13.19	14.81
280	0.38	22.07	16.16	13.96	14.02	16.05
290	0.37	22.05	16.08	14.20	14.25	16.45
300	0.37	22.03	16.01	14.42	14.47	16.85
320	0.36	22.00	15.84	14.84	14.89	17.63
350	0.35	21.94	15.56	15.43	15.48	18.78
400	0.33	21.87	15.09	16.31	16.40	20.67
450	0.32	21.79	14.63	16.98	17.09	22.54
500	0.32	21.72	14.14	17.54	17.65	24.44
550	0.33	21.65	13.78	17.98	18.12	26.25
600	0.33	21.58	13.36	18.36	18.51	27.79
650	0.34	21.51	12.99	18.68	18.82	28.64
700	0.35	21.43	12.74	18.90	19.06	28.49
750	0.36	21.34	12.45	19.09	19.23	27.57
800	0.37	21.25	12.23	19.21	19.36	26.37
880	0.39	21.10	12.02	19.42	19.57	24.42
890	0.39	21.08	12.02	19.44	19.58	24.19
900	0.40	21.05	12.02	19.44	19.59	23.97
920	0.41	21.01	11.95	19.49	19.62	23.52
950	0.41	20.95	11.89	19.43	19.58	22.86
1000	0.44	20.83	11.95	19.38	19.49	21.91
1050	0.45	20.74	11.92	19.39	19.52	21.02
1080	0.46	20.66	11.98	19.34	19.44	20.51
1090	0.47	20.64	11.99	19.30	19.41	20.36
1100	0.48	20.60	12.06	19.26	19.37	20.20
1120	0.48	20.56	12.00	19.25	19.36	19.89
1150	0.50	20.49	12.06	19.18	19.29	19.43
1200	0.52	20.36	12.28	19.23	19.33	18.71
1300	0.56	20.10	12.72	18.86	19.02	17.41
1400	0.62	19.83	13.40	18.58	18.80	16.33
1500	0.67	19.51	14.52	18.28	18.51	15.31
1600	0.73	19.25	15.82	18.00	18.28	14.38
1700	0.79	18.97	17.48	17.74	18.11	13.55
1800	0.86	18.63	19.36	17.30	17.64	12.76
1900	0.93	18.33	20.79	17.09	17.40	11.99
2000	1.00	18.02	19.73	16.71	17.21	11.25
2100	1.10	17.87	16.44	16.38	17.10	10.56
2200	1.15	17.58	14.60	16.28	17.13	9.86
2300	1.24	17.31	12.13	15.64	16.80	9.22
2400	1.32	17.03	10.29	15.39	16.64	8.59
2500	1.41	16.78	8.44	15.29	16.71	8.04
2750	1.65	15.73	5.21	14.71	16.96	6.90
3000	2.01	14.43	3.35	14.68	17.49	6.06
3250	2.50	12.77	2.48	15.32	17.77	5.63
3500	3.29	11.13	2.19	16.86	17.32	5.68
3750	4.47	9.59	2.23	19.37	15.72	6.23
4000	6.34	8.72	2.18	18.14	14.31	7.01
4250	9.46	8.42	2.30	15.16	12.90	7.86
4500	13.87	8.48	3.35	13.40	9.48	8.51
4750	14.86	8.83	7.09	13.40	5.10	8.17
5000	15.69	10.72	21.85	16.93	3.29	6.35

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