

# Directional Coupler

# JDC-6-1

## 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	1.63	6.15	48.13	15.37	17.55	18.07
10	1.63	6.14	49.32	15.47	17.45	17.98
15	1.63	6.15	48.79	15.53	17.41	17.94
20	1.64	6.16	47.52	15.57	17.38	17.92
25	1.64	6.16	46.06	15.60	17.35	17.90
30	1.65	6.17	44.58	15.63	17.32	17.89
35	1.65	6.17	43.14	15.66	17.30	17.88
40	1.65	6.18	41.75	15.69	17.28	17.87
45	1.66	6.18	40.75	15.73	17.25	17.87
50	1.67	6.18	40.04	15.76	17.23	17.87
75	1.68	6.21	36.40	15.93	17.13	17.89
100	1.70	6.22	33.63	16.09	17.07	17.96
125	1.71	6.24	31.58	16.28	17.01	18.07
150	1.73	6.26	29.73	16.47	16.99	18.23
175	1.75	6.27	28.34	16.68	16.97	18.42
200	1.76	6.29	26.90	16.91	16.97	18.66
225	1.78	6.32	25.73	17.14	16.99	18.91
250	1.79	6.34	24.58	17.38	17.00	19.19
275	1.81	6.37	23.61	17.61	17.06	19.52
300	1.83	6.40	22.66	17.87	17.10	19.84
325	1.85	6.43	21.77	18.08	17.17	20.15
350	1.87	6.46	20.96	18.35	17.26	20.45
375	1.89	6.50	20.15	18.55	17.33	20.68
400	1.90	6.55	19.37	18.74	17.43	20.85
425	1.92	6.60	18.65	18.96	17.55	20.94
450	1.94	6.66	17.92	19.05	17.66	20.88
500	1.97	6.79	16.50	19.22	17.95	20.43
525	1.99	6.86	15.82	19.25	18.08	20.07
550	2.01	6.95	15.13	19.26	18.25	19.60
575	2.02	7.04	14.48	19.08	18.46	19.06
600	2.04	7.14	13.84	19.03	18.62	18.56
650	2.08	7.36	12.54	18.68	18.99	17.41
700	2.10	7.61	11.26	18.15	19.44	16.29
750	2.14	7.88	10.03	17.62	19.84	15.28
800	2.17	8.19	8.82	17.14	20.14	14.43
850	2.20	8.53	7.61	16.62	20.33	13.69
900	2.23	8.87	6.46	16.13	20.41	13.07
950	2.27	9.22	5.32	15.62	20.40	12.57
1000	2.31	9.58	4.24	15.22	20.25	12.20
1100	2.44	10.28	2.27	14.45	19.46	11.86
1200	2.59	10.79	0.67	13.79	18.76	12.10
1300	2.80	10.99	-0.45	13.09	18.45	13.02
1400	3.10	10.86	-0.99	12.39	19.05	15.09
1500	3.49	10.40	-0.91	11.65	20.99	19.08
1600	4.01	9.89	-0.47	10.91	24.16	24.77
1700	4.59	9.48	0.20	10.21	21.27	19.58
1800	5.25	9.29	0.85	9.51	15.92	14.47
1900	5.91	9.30	1.43	9.05	12.42	11.74
2000	6.54	9.54	1.74	8.58	10.03	10.04
2100	7.19	9.95	1.78	8.41	8.46	9.05
2200	7.89	10.51	1.49	8.42	7.34	8.44
2300	8.70	11.33	0.87	8.69	6.59	8.13
2400	9.78	12.65	-0.18	9.06	6.01	7.87
2500	11.29	14.80	-1.83	8.79	5.50	7.58

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# Directional Coupler

# JDC-6-1

## 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	1.68	6.23	42.33	14.95	17.87	18.44
10	1.63	6.16	46.44	15.34	17.49	17.96
15	1.61	6.12	47.26	15.53	17.31	17.75
20	1.60	6.11	46.37	15.62	17.23	17.66
25	1.60	6.11	44.93	15.69	17.17	17.61
30	1.60	6.11	43.64	15.74	17.12	17.58
35	1.60	6.11	42.48	15.79	17.07	17.55
40	1.61	6.11	41.44	15.84	17.02	17.53
45	1.61	6.11	40.80	15.89	16.98	17.51
50	1.61	6.11	40.45	15.93	16.93	17.50
75	1.62	6.13	38.39	16.10	16.77	17.46
100	1.64	6.14	35.45	16.20	16.73	17.46
125	1.65	6.15	32.56	16.35	16.73	17.55
150	1.65	6.16	30.42	16.53	16.74	17.75
175	1.67	6.17	29.24	16.75	16.69	18.01
200	1.68	6.19	27.95	16.97	16.66	18.33
225	1.69	6.21	26.70	17.17	16.70	18.68
250	1.70	6.22	25.37	17.40	16.74	19.04
275	1.72	6.25	24.33	17.63	16.81	19.47
300	1.73	6.26	23.41	17.88	16.82	19.90
325	1.75	6.29	22.50	18.10	16.89	20.33
350	1.76	6.31	21.64	18.40	17.00	20.71
375	1.77	6.35	20.82	18.64	17.09	21.04
400	1.78	6.38	20.03	18.85	17.17	21.31
425	1.80	6.42	19.27	19.10	17.25	21.47
450	1.81	6.47	18.51	19.24	17.37	21.46
500	1.83	6.58	17.08	19.66	17.71	20.98
525	1.85	6.64	16.42	19.80	17.83	20.55
550	1.86	6.72	15.69	19.89	17.97	19.96
575	1.87	6.80	15.02	19.74	18.17	19.30
600	1.89	6.88	14.35	19.75	18.30	18.69
650	1.91	7.08	13.02	19.55	18.61	17.37
700	1.93	7.31	11.72	19.05	19.11	16.13
750	1.96	7.56	10.48	18.60	19.49	15.04
800	1.98	7.85	9.25	18.15	19.75	14.12
850	1.99	8.16	8.03	17.63	19.86	13.34
900	2.01	8.49	6.85	17.10	19.85	12.69
950	2.04	8.84	5.68	16.43	20.04	12.16
1000	2.08	9.20	4.60	16.03	19.85	11.77
1100	2.18	9.93	2.57	15.22	18.97	11.43
1200	2.30	10.52	0.85	14.39	18.23	11.69
1300	2.46	10.85	-0.44	13.49	17.92	12.65
1400	2.70	10.87	-1.15	12.78	18.34	14.69
1500	3.04	10.52	-1.22	11.88	20.22	18.23
1600	3.48	10.04	-0.83	11.16	24.18	21.15
1700	3.99	9.63	-0.19	10.42	23.33	17.14
1800	4.61	9.42	0.40	9.54	17.19	13.09
1900	5.22	9.38	1.05	9.27	12.96	10.77
2000	5.85	9.64	1.22	8.65	10.39	9.28
2100	6.50	10.00	1.28	8.62	8.56	8.46
2200	7.25	10.55	0.88	8.53	7.38	8.03
2300	8.14	11.29	0.25	8.72	6.47	7.90
2400	9.32	12.46	-0.79	9.09	5.78	7.87
2500	11.00	14.52	-2.48	8.52	5.23	7.81

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# Directional Coupler

# JDC-6-1

## 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	1.70	6.26	43.16	15.04	18.01	18.83
10	1.70	6.26	44.48	15.14	17.91	18.73
15	1.71	6.27	45.20	15.20	17.86	18.67
20	1.72	6.27	45.58	15.24	17.82	18.64
25	1.72	6.28	45.64	15.27	17.79	18.61
30	1.73	6.29	45.20	15.29	17.77	18.59
35	1.73	6.29	44.16	15.32	17.76	18.57
40	1.74	6.30	42.85	15.34	17.74	18.56
45	1.75	6.31	41.71	15.37	17.73	18.55
50	1.75	6.31	40.71	15.40	17.72	18.55
75	1.77	6.33	36.08	15.59	17.67	18.60
100	1.79	6.35	33.43	15.81	17.57	18.70
125	1.81	6.37	31.91	16.07	17.41	18.83
150	1.83	6.39	30.27	16.29	17.34	18.95
175	1.85	6.41	28.68	16.50	17.32	19.06
200	1.87	6.44	27.01	16.76	17.34	19.22
225	1.89	6.47	25.82	17.03	17.35	19.41
250	1.90	6.49	24.74	17.32	17.30	19.63
275	1.93	6.53	23.75	17.59	17.31	19.88
300	1.95	6.56	22.72	17.88	17.33	20.11
325	1.97	6.61	21.75	18.11	17.40	20.36
350	1.99	6.65	20.89	18.40	17.48	20.60
375	2.01	6.69	20.05	18.62	17.51	20.80
400	2.03	6.75	19.24	18.82	17.55	20.95
425	2.05	6.80	18.47	19.05	17.63	21.04
450	2.07	6.87	17.71	19.13	17.72	20.99
500	2.11	7.01	16.24	19.25	17.95	20.61
525	2.13	7.09	15.56	19.24	18.02	20.30
550	2.15	7.18	14.85	19.20	18.13	19.86
575	2.17	7.27	14.19	18.98	18.29	19.35
600	2.19	7.36	13.56	18.89	18.40	18.89
650	2.23	7.58	12.27	18.52	18.71	17.78
700	2.26	7.82	11.02	17.96	19.06	16.67
750	2.30	8.08	9.83	17.43	19.33	15.66
800	2.34	8.36	8.66	16.96	19.54	14.77
850	2.37	8.66	7.54	16.48	19.69	13.98
900	2.40	8.95	6.47	16.06	19.67	13.30
950	2.45	9.24	5.41	15.62	19.64	12.72
1000	2.51	9.54	4.44	15.28	19.52	12.26
1100	2.66	10.06	2.69	14.65	18.82	11.69
1200	2.85	10.39	1.30	14.06	18.18	11.62
1300	3.09	10.47	0.31	13.39	17.86	12.05
1400	3.42	10.33	-0.24	12.65	18.24	13.32
1500	3.83	9.98	-0.33	11.85	19.55	15.84
1600	4.35	9.61	-0.11	11.04	22.09	21.10
1700	4.92	9.28	0.36	10.29	21.73	30.78
1800	5.56	9.12	0.91	9.53	16.97	19.80
1900	6.21	9.10	1.53	8.98	13.23	14.80
2000	6.81	9.26	2.03	8.50	10.54	11.93
2100	7.43	9.61	2.28	8.22	8.85	10.22
2200	8.04	10.05	2.31	8.12	7.57	9.10
2300	8.68	10.70	2.03	8.32	6.82	8.40
2400	9.44	11.70	1.38	8.82	6.26	7.84
2500	10.52	13.24	0.27	9.43	5.80	7.45

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