

Directional Coupler

JDC-10-4

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	0.96	10.56	23.21	23.95	32.15	21.47
10	0.95	10.59	23.32	24.35	34.01	23.15
20	0.95	10.62	23.45	24.70	35.67	24.72
30	0.96	10.63	23.53	24.76	35.71	24.87
40	0.96	10.63	23.57	24.78	35.37	24.87
50	0.97	10.64	23.62	24.81	34.90	24.83
75	0.98	10.67	23.67	24.86	33.72	24.67
100	0.98	10.69	23.69	24.83	32.76	24.39
150	1.00	10.74	23.88	24.63	31.08	23.61
175	1.01	10.76	24.01	24.49	30.40	23.16
200	1.01	10.78	24.17	24.31	29.83	22.70
250	1.02	10.82	24.46	23.89	28.82	21.81
300	1.04	10.87	24.83	23.46	28.00	21.00
350	1.06	10.91	25.15	22.96	27.31	20.27
400	1.09	10.95	25.47	22.51	26.68	19.62
450	1.11	10.98	25.69	22.08	26.18	19.03
500	1.13	11.01	25.52	21.57	25.63	18.51
550	1.16	11.05	25.14	21.13	25.17	18.06
600	1.19	11.07	24.59	20.77	24.84	17.67
650	1.22	11.10	23.73	20.37	24.46	17.33
700	1.25	11.13	22.83	20.02	24.12	17.04
750	1.28	11.15	21.78	19.67	23.80	16.79
800	1.31	11.16	20.81	19.34	23.48	16.60
850	1.35	11.18	19.93	19.12	23.22	16.45
900	1.38	11.20	18.90	18.80	22.89	16.34
950	1.42	11.20	18.15	18.60	22.70	16.28
1000	1.46	11.23	17.19	18.33	22.34	16.25
1050	1.49	11.22	16.53	18.09	22.19	16.27
1100	1.54	11.23	15.75	17.84	21.89	16.36
1150	1.57	11.21	15.16	17.60	21.73	16.46
1200	1.61	11.21	14.55	17.40	21.52	16.64
1300	1.70	11.21	13.46	17.06	21.14	17.13
1400	1.77	11.22	12.49	16.62	20.81	17.90
1500	1.87	11.21	11.67	16.27	20.44	18.99
1600	1.97	11.24	10.99	15.93	20.07	20.53
1700	2.08	11.28	10.37	15.66	19.62	22.83
1800	2.18	11.34	9.81	15.29	19.28	26.13
1900	2.32	11.42	9.32	15.05	18.84	30.82
2000	2.43	11.46	8.94	14.75	18.45	29.93
2100	2.56	11.56	8.57	14.52	18.11	24.46
2200	2.69	11.70	8.27	14.27	17.74	20.49
2300	2.84	11.83	8.04	14.09	17.35	17.55
2400	2.99	12.01	7.76	13.98	17.08	15.32
2500	3.16	12.19	7.59	13.98	16.75	13.51
2600	3.35	12.48	7.52	14.09	16.54	11.95
2700	3.52	12.66	7.22	14.21	16.14	10.80
2800	3.72	12.99	7.03	14.25	16.16	9.71
2900	3.91	13.26	6.88	14.64	16.17	8.83
3000	4.15	13.60	6.81	15.06	16.47	8.04
3100	4.42	13.97	6.79	15.50	16.69	7.35
3200	4.73	14.41	6.76	15.92	16.90	6.77
3300	5.07	14.89	6.92	15.97	17.07	6.26
3400	5.43	15.45	7.13	15.81	17.07	5.83
3500	5.88	15.97	7.31	15.08	16.96	5.48

REV. X1
JDC-10-4
081007
Page 1 of 3



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Directional Coupler

JDC-10-4

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	1.10	10.29	20.54	20.40	23.07	15.08
10	0.99	10.42	20.81	22.40	26.25	17.68
20	0.90	10.61	21.09	24.70	29.90	21.59
30	0.88	10.70	21.09	25.45	30.73	23.82
40	0.87	10.74	21.03	25.83	30.62	25.24
50	0.88	10.77	21.02	26.04	30.24	26.13
75	0.87	10.80	21.10	26.11	29.23	27.18
100	0.88	10.82	21.31	25.87	28.77	27.14
150	0.89	10.85	21.66	25.81	28.62	25.88
175	0.89	10.86	21.70	25.58	28.11	25.06
200	0.90	10.87	21.82	25.09	27.49	24.27
250	0.91	10.89	22.34	24.37	26.81	22.92
300	0.93	10.92	22.76	23.90	26.31	21.83
350	0.95	10.94	23.21	23.08	25.59	20.90
400	0.97	10.96	23.77	22.58	25.09	20.08
450	0.99	10.98	24.23	21.99	24.60	19.33
500	1.01	11.00	24.56	21.43	24.17	18.67
550	1.03	11.03	24.71	20.87	23.59	18.10
600	1.06	11.05	24.67	20.39	23.20	17.64
650	1.08	11.06	24.39	20.03	22.92	17.25
700	1.11	11.08	23.80	19.63	22.57	16.91
750	1.14	11.10	22.90	19.27	22.32	16.60
800	1.17	11.11	22.04	18.91	22.05	16.34
850	1.20	11.12	21.14	18.64	21.78	16.15
900	1.24	11.14	19.99	18.28	21.45	16.01
950	1.27	11.13	19.19	18.13	21.31	15.91
1000	1.30	11.16	18.22	17.85	21.01	15.84
1050	1.34	11.16	17.40	17.51	20.77	15.82
1100	1.38	11.17	16.48	17.28	20.44	15.88
1150	1.41	11.16	15.90	17.14	20.44	15.96
1200	1.45	11.16	15.26	16.95	20.33	16.15
1300	1.54	11.18	13.92	16.51	19.79	16.64
1400	1.60	11.20	12.95	16.17	19.46	17.41
1500	1.69	11.21	12.06	15.87	19.16	18.52
1600	1.78	11.25	11.37	15.66	18.84	20.19
1700	1.88	11.31	10.76	15.40	18.40	22.77
1800	1.98	11.40	10.25	14.99	18.36	26.94
1900	2.10	11.49	9.77	14.74	17.35	37.83
2000	2.19	11.54	9.46	14.54	17.71	32.63
2100	2.32	11.67	9.03	14.20	16.56	24.18
2200	2.42	11.79	8.98	14.10	16.59	19.93
2300	2.56	11.94	8.78	13.84	16.02	16.93
2400	2.69	12.11	8.54	13.66	15.53	14.64
2500	2.82	12.26	8.52	14.07	15.91	12.80
2600	3.01	12.53	8.62	13.76	14.98	11.33
2700	3.14	12.73	8.37	14.42	15.08	10.17
2800	3.32	13.03	8.24	14.44	15.23	9.10
2900	3.49	13.32	8.09	14.64	14.93	8.19
3000	3.71	13.67	8.10	15.51	15.31	7.39
3100	3.96	14.07	8.14	16.17	16.14	6.71
3200	4.26	14.51	8.22	16.66	15.81	6.14
3300	4.60	15.04	8.43	16.63	16.65	5.66
3400	4.95	15.65	8.91	16.35	16.53	5.23
3500	5.41	16.29	9.06	15.09	16.70	4.88

REV. X1
JDC-10-4
081007
Page 2 of 3



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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	1.13	10.44	27.56	21.86	31.34	18.17
10	1.12	10.47	28.25	22.15	33.89	18.84
20	1.12	10.50	28.95	22.43	36.37	19.49
30	1.13	10.52	29.17	22.49	36.55	19.60
40	1.13	10.53	29.27	22.51	36.53	19.66
50	1.14	10.55	29.43	22.54	36.81	19.68
75	1.15	10.58	29.38	22.67	37.98	19.70
100	1.15	10.62	28.96	22.80	38.24	19.67
150	1.16	10.69	28.69	22.79	34.45	19.57
175	1.17	10.72	28.87	22.72	33.54	19.52
200	1.18	10.76	29.11	22.74	33.47	19.46
250	1.19	10.82	29.02	22.69	32.85	19.28
300	1.21	10.89	28.95	22.41	31.47	19.03
350	1.23	10.95	28.78	22.17	31.05	18.74
400	1.26	11.01	28.31	21.93	30.44	18.44
450	1.28	11.06	27.55	21.59	29.79	18.15
500	1.31	11.11	26.43	21.24	29.26	17.89
550	1.34	11.16	25.23	20.93	28.72	17.64
600	1.37	11.20	24.15	20.63	28.39	17.45
650	1.39	11.23	22.96	20.32	27.98	17.28
700	1.42	11.27	21.88	20.03	27.54	17.14
750	1.46	11.30	20.81	19.75	27.17	17.00
800	1.48	11.31	19.90	19.50	26.86	16.91
850	1.52	11.33	19.06	19.33	26.58	16.83
900	1.55	11.34	18.17	19.07	26.11	16.79
950	1.59	11.34	17.50	18.86	25.86	16.77
1000	1.63	11.36	16.66	18.60	25.39	16.78
1050	1.66	11.35	16.06	18.36	25.08	16.81
1100	1.71	11.35	15.37	18.07	24.64	16.89
1150	1.74	11.33	14.79	17.79	24.24	16.96
1200	1.78	11.31	14.24	17.58	23.96	17.11
1300	1.87	11.29	13.27	17.30	23.60	17.41
1400	1.96	11.28	12.34	16.84	23.07	17.91
1500	2.06	11.25	11.56	16.48	22.57	18.52
1600	2.17	11.25	10.82	16.00	21.90	19.26
1700	2.30	11.25	10.13	15.72	21.26	20.11
1800	2.41	11.28	9.46	15.33	20.77	20.98
1900	2.56	11.32	8.90	15.13	20.44	21.61
2000	2.68	11.35	8.34	14.77	19.71	21.84
2100	2.83	11.41	7.87	14.46	19.63	21.20
2200	2.98	11.51	7.33	14.16	19.27	19.89
2300	3.15	11.61	6.90	13.95	18.92	18.33
2400	3.32	11.75	6.46	13.74	18.72	16.78
2500	3.50	11.88	6.14	13.61	18.32	15.36
2600	3.68	12.02	5.84	13.55	18.29	13.91
2700	3.88	12.25	5.38	13.49	17.93	12.82
2800	4.09	12.52	5.05	13.44	18.26	11.75
2900	4.28	12.71	4.80	13.62	18.37	10.85
3000	4.52	12.96	4.54	13.69	18.59	10.00
3100	4.77	13.24	4.39	13.92	18.69	9.24
3200	5.00	13.54	4.27	14.44	19.50	8.57
3300	5.29	13.89	4.24	14.68	19.25	7.97
3400	5.58	14.23	4.27	15.05	19.43	7.43
3500	5.93	14.56	4.32	15.19	18.98	6.98

REV. X1
JDC-10-4
081007
Page 3 of 3



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