

Directional Coupler

JDC-10-2

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
5	0.89	9.64	20.55	21.14	32.76	20.89
10	0.88	9.64	20.88	21.43	36.30	21.29
15	0.88	9.65	20.96	21.54	38.03	21.44
20	0.89	9.65	20.95	21.57	38.84	21.48
25	0.89	9.66	20.95	21.60	39.23	21.49
30	0.90	9.66	20.92	21.61	39.31	21.50
35	0.90	9.66	20.91	21.64	39.29	21.51
40	0.91	9.67	20.91	21.67	39.11	21.52
45	0.91	9.67	20.88	21.70	38.83	21.54
50	0.91	9.67	20.84	21.74	38.50	21.56
75	0.92	9.69	20.81	21.90	37.28	21.62
100	0.93	9.71	20.73	22.02	36.29	21.64
125	0.94	9.73	20.67	22.16	35.34	21.65
150	0.94	9.74	20.61	22.27	34.70	21.62
175	0.94	9.75	20.52	22.38	34.05	21.56
200	0.95	9.76	20.44	22.47	33.44	21.49
225	0.96	9.78	20.35	22.58	32.93	21.41
250	0.96	9.78	20.26	22.68	32.56	21.31
275	0.97	9.79	20.18	22.79	32.22	21.21
300	0.97	9.79	20.10	22.91	31.85	21.11
325	0.98	9.80	20.00	23.01	31.55	21.01
350	0.98	9.79	19.87	23.13	31.27	20.91
400	0.99	9.79	19.64	23.42	30.87	20.72
425	1.00	9.78	19.52	23.58	30.69	20.62
450	1.01	9.78	19.45	23.72	30.47	20.52
500	1.02	9.76	19.28	24.10	30.15	20.35
525	1.03	9.75	19.17	24.28	29.99	20.28
550	1.05	9.75	19.01	24.64	30.01	20.21
600	1.07	9.71	18.93	24.94	29.77	20.07
625	1.08	9.69	18.86	25.18	29.63	20.01
650	1.10	9.67	18.73	25.56	29.56	19.95
700	1.13	9.63	18.68	26.06	29.52	19.85
725	1.15	9.61	18.62	26.56	29.50	19.79
750	1.17	9.57	18.69	26.81	29.53	19.73
800	1.21	9.52	18.64	27.61	29.50	19.63
850	1.26	9.45	18.61	28.61	29.64	19.53
900	1.31	9.39	18.71	29.73	29.66	19.41
950	1.37	9.31	18.76	31.40	29.99	19.28
1000	1.45	9.24	18.97	33.44	30.19	19.13
1100	1.63	9.10	19.33	38.89	30.30	18.87
1200	1.86	8.95	20.01	37.67	30.68	18.63
1300	2.17	8.85	20.62	29.95	30.70	18.50
1400	2.59	8.84	20.54	25.09	29.26	18.74
1500	3.14	8.95	18.58	20.99	26.97	19.80
1600	3.91	9.31	15.12	17.64	24.79	22.63
1700	4.94	10.06	11.34	14.74	22.86	32.06
1800	6.18	11.31	7.64	12.19	21.54	26.24
1900	7.49	13.15	4.21	10.15	20.47	17.15
2000	8.65	15.45	1.19	8.62	19.58	12.68
2100	9.49	17.96	-1.23	7.56	18.35	9.93
2200	10.02	20.38	-3.08	6.76	16.99	8.12
2300	10.35	22.63	-4.34	6.18	15.52	6.84
2400	10.52	24.63	-5.01	5.73	14.20	5.94
2500	10.67	26.48	-5.36	5.38	13.07	5.26

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Directional Coupler

JDC-10-2

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
5	0.97	9.63	19.47	19.82	25.94	19.67
10	0.87	9.63	20.56	21.13	29.83	20.90
15	0.83	9.63	21.09	21.70	32.12	21.49
20	0.82	9.64	21.33	21.93	33.37	21.76
25	0.82	9.64	21.46	22.05	33.98	21.90
30	0.82	9.64	21.57	22.12	34.19	21.98
35	0.82	9.64	21.63	22.19	34.11	22.06
40	0.82	9.65	21.69	22.26	33.92	22.13
45	0.83	9.65	21.74	22.31	33.68	22.19
50	0.83	9.65	21.77	22.37	33.42	22.24
75	0.83	9.66	21.78	22.54	32.09	22.43
100	0.83	9.67	21.57	22.57	31.52	22.55
125	0.84	9.68	21.35	22.66	31.61	22.59
150	0.84	9.67	21.30	22.79	31.76	22.51
175	0.85	9.67	21.32	22.89	31.31	22.34
200	0.85	9.68	21.25	22.88	30.66	22.12
225	0.86	9.68	21.07	22.86	30.22	21.91
250	0.86	9.67	20.89	22.92	30.10	21.68
275	0.87	9.67	20.78	23.05	30.18	21.43
300	0.87	9.66	20.67	23.15	29.97	21.22
325	0.88	9.66	20.57	23.15	29.64	21.02
350	0.88	9.65	20.43	23.15	29.35	20.86
400	0.89	9.62	20.17	23.35	29.16	20.52
425	0.90	9.61	20.10	23.43	28.98	20.35
450	0.90	9.61	19.94	23.53	28.73	20.19
500	0.91	9.57	19.73	23.68	28.65	19.85
525	0.92	9.55	19.65	23.78	28.50	19.69
550	0.93	9.53	19.49	23.94	28.32	19.54
600	0.95	9.48	19.32	24.12	28.14	19.25
625	0.96	9.46	19.19	24.39	28.23	19.14
650	0.97	9.43	19.13	24.63	28.30	19.02
700	1.00	9.37	19.02	25.06	28.23	18.80
725	1.02	9.34	18.97	25.28	28.22	18.69
750	1.03	9.31	18.89	25.57	28.34	18.59
800	1.07	9.24	18.83	26.16	28.39	18.37
850	1.10	9.17	18.75	26.77	28.35	18.17
900	1.15	9.09	18.66	27.63	28.42	18.00
950	1.21	9.01	18.66	29.05	28.79	17.81
1000	1.27	8.94	18.84	30.43	28.93	17.62
1100	1.43	8.77	18.83	34.45	29.65	17.31
1200	1.62	8.58	19.36	37.97	30.59	17.06
1300	1.89	8.42	19.80	31.69	30.70	16.95
1400	2.27	8.34	19.96	25.66	29.08	17.17
1500	2.81	8.37	18.62	20.97	26.84	17.87
1600	3.59	8.65	15.46	16.94	23.82	19.80
1700	4.69	9.34	11.44	13.61	21.57	24.41
1800	6.14	10.72	7.19	10.86	19.69	23.58
1900	7.79	12.92	3.35	8.70	18.29	16.24
2000	9.16	15.68	-0.18	7.15	18.04	11.73
2100	10.05	18.78	-3.02	6.01	16.28	9.10
2200	10.38	21.68	-5.06	5.43	14.75	7.41
2300	10.48	24.17	-6.19	4.95	13.22	6.24
2400	10.46	26.59	-6.79	4.56	11.85	5.42
2500	10.37	28.74	-6.68	4.37	11.17	4.80

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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	1.02	9.65	19.81	20.10	32.09	20.12
10	1.01	9.66	19.94	20.36	35.95	20.36
15	1.01	9.67	19.95	20.46	37.67	20.45
20	1.02	9.67	19.91	20.48	38.37	20.47
25	1.03	9.68	19.85	20.50	38.64	20.48
30	1.03	9.69	19.81	20.50	38.62	20.48
35	1.04	9.69	19.77	20.52	38.55	20.49
40	1.04	9.70	19.73	20.52	38.56	20.50
45	1.05	9.70	19.70	20.53	38.70	20.52
50	1.05	9.70	19.68	20.56	38.93	20.53
75	1.06	9.74	19.65	20.70	40.36	20.56
100	1.06	9.76	19.73	20.87	41.10	20.57
125	1.06	9.79	19.75	21.05	39.24	20.59
150	1.06	9.81	19.70	21.18	37.05	20.63
175	1.07	9.83	19.59	21.31	35.99	20.68
200	1.08	9.86	19.48	21.51	36.04	20.74
225	1.08	9.88	19.44	21.74	36.16	20.79
250	1.08	9.90	19.43	21.94	35.48	20.83
275	1.09	9.92	19.38	22.11	34.74	20.86
300	1.09	9.93	19.27	22.29	34.13	20.91
325	1.09	9.95	19.17	22.47	33.90	20.93
350	1.10	9.96	19.09	22.72	33.84	20.97
400	1.11	9.99	18.96	23.19	33.51	20.99
425	1.11	9.99	18.91	23.40	33.15	21.00
450	1.12	10.00	18.80	23.66	32.94	21.03
500	1.14	10.01	18.69	24.12	32.63	21.08
525	1.15	10.00	18.65	24.40	32.48	21.11
550	1.16	10.00	18.59	24.78	32.47	21.14
600	1.19	9.99	18.57	25.39	32.26	21.19
625	1.20	9.98	18.54	25.72	32.18	21.23
650	1.22	9.96	18.53	26.03	32.06	21.26
700	1.26	9.93	18.51	26.84	31.99	21.29
725	1.28	9.91	18.54	27.28	31.90	21.29
750	1.30	9.89	18.55	27.75	32.00	21.29
800	1.35	9.83	18.63	28.88	32.09	21.24
850	1.40	9.78	18.72	30.29	32.33	21.15
900	1.47	9.71	18.89	31.90	32.30	21.04
950	1.55	9.64	19.11	33.91	32.37	20.84
1000	1.63	9.59	19.42	36.40	32.21	20.67
1100	1.84	9.46	19.96	45.09	32.76	20.14
1200	2.10	9.34	20.47	38.23	32.28	19.71
1300	2.43	9.29	21.12	30.09	32.10	19.35
1400	2.85	9.32	20.60	25.60	30.42	19.38
1500	3.40	9.49	18.45	22.01	28.85	19.94
1600	4.10	9.88	15.21	19.07	26.60	21.41
1700	4.97	10.54	11.96	16.28	25.02	23.25
1800	5.98	11.59	8.61	13.96	23.62	22.03
1900	7.07	12.99	5.78	12.04	22.93	17.61
2000	8.09	14.71	3.06	10.47	21.64	13.85
2100	8.96	16.60	0.80	9.34	20.73	11.18
2200	9.65	18.56	-1.11	8.31	19.78	9.27
2300	10.17	20.38	-2.62	7.59	18.42	7.87
2400	10.60	22.08	-3.87	7.01	17.17	6.84
2500	10.97	23.64	-4.90	6.55	15.93	6.08

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