

Directional Coupler

JDC-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
50	3.39	26.84	2.28	2.92	3.01	2.92
100	1.22	22.62	7.98	6.83	6.96	6.64
150	0.66	21.50	11.21	9.98	10.13	9.39
300	0.28	20.67	16.02	17.04	17.20	14.03
350	0.26	20.57	16.81	19.14	19.32	14.92
375	0.25	20.53	17.13	20.21	20.41	15.29
400	0.24	20.49	17.35	21.36	21.55	15.61
425	0.24	20.45	17.56	22.49	22.68	15.89
450	0.24	20.40	17.67	23.77	23.98	16.14
475	0.23	20.38	17.80	24.92	25.16	16.35
500	0.23	20.34	17.86	26.18	26.45	16.55
525	0.23	20.31	17.90	27.58	27.88	16.71
550	0.24	20.27	18.00	28.98	29.13	16.85
575	0.24	20.24	17.84	30.57	30.74	16.98
600	0.25	20.19	17.79	31.80	31.87	17.08
625	0.25	20.16	17.72	32.65	32.41	17.16
650	0.25	20.12	17.55	32.85	32.40	17.23
675	0.26	20.08	17.44	32.33	31.75	17.29
700	0.27	20.03	17.30	31.42	30.86	17.33
725	0.28	19.99	17.16	30.31	29.75	17.35
750	0.28	19.94	16.92	29.22	28.66	17.38
775	0.29	19.90	16.73	28.22	27.62	17.39
800	0.30	19.84	16.54	27.31	26.72	17.39
825	0.31	19.78	16.40	26.50	25.93	17.39
850	0.32	19.75	16.01	25.55	24.98	17.38
875	0.32	19.68	15.88	24.84	24.37	17.35
900	0.34	19.62	15.57	24.23	23.67	17.32
925	0.36	19.56	15.40	23.64	22.97	17.29
950	0.36	19.50	15.16	22.96	22.47	17.25
975	0.37	19.43	14.95	22.47	21.98	17.21
1000	0.39	19.36	14.75	22.04	21.47	17.15
1050	0.41	19.23	14.23	21.05	20.56	17.05
1100	0.44	19.11	13.61	20.36	19.70	16.95
1150	0.46	18.95	13.21	19.65	19.00	16.84
1200	0.49	18.80	12.75	19.00	18.25	16.70
1250	0.52	18.62	12.41	18.46	17.70	16.55
1300	0.56	18.42	11.95	17.91	17.01	16.39
1400	0.63	18.10	11.19	16.95	15.99	16.09
1500	0.71	17.73	10.58	16.09	15.00	15.75
1600	0.80	17.37	10.03	15.39	14.18	15.39
1700	0.91	16.96	9.51	14.71	13.35	15.03
1800	1.02	16.66	8.92	14.12	12.59	14.70
1900	1.15	16.37	8.40	13.53	11.81	14.35
2000	1.29	15.93	8.03	13.05	11.08	14.01
2100	1.44	15.61	7.64	12.53	10.40	13.70
2200	1.60	15.33	7.25	11.96	9.77	13.33
2300	1.79	15.06	6.99	11.47	9.20	12.97
2400	2.00	14.78	6.61	10.89	8.58	12.65
2500	2.24	14.50	6.46	10.32	8.09	12.27
2600	2.53	14.31	6.40	9.67	7.58	11.83
2700	2.83	14.19	5.77	9.16	6.97	11.53
2800	3.18	14.09	5.45	8.62	6.44	11.14
2900	3.56	13.97	5.09	8.11	5.96	10.79
3000	3.97	13.98	4.70	7.57	5.48	10.40

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Directional Coupler

JDC-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
50	3.35	26.79	2.29	2.92	3.01	2.90
100	1.21	22.60	7.95	6.76	6.89	6.65
150	0.63	21.47	11.24	9.97	10.11	9.39
300	0.24	20.65	16.06	16.90	17.06	13.92
350	0.21	20.55	16.81	18.83	19.01	14.80
375	0.20	20.51	17.12	19.87	20.08	15.17
400	0.19	20.46	17.39	21.03	21.22	15.49
425	0.18	20.43	17.60	22.09	22.28	15.77
450	0.18	20.38	17.71	23.21	23.41	16.01
475	0.17	20.35	17.81	24.30	24.56	16.21
500	0.17	20.32	17.87	25.55	25.85	16.39
525	0.17	20.28	17.91	26.90	27.22	16.53
550	0.17	20.24	17.99	28.08	28.29	16.66
575	0.17	20.21	17.83	29.40	29.59	16.77
600	0.17	20.17	17.78	30.60	30.76	16.87
625	0.17	20.13	17.72	31.71	31.63	16.95
650	0.18	20.09	17.58	32.37	32.00	17.02
675	0.18	20.05	17.47	32.29	31.74	17.08
700	0.18	20.01	17.31	31.80	31.16	17.11
725	0.19	19.96	17.16	30.97	30.32	17.15
750	0.19	19.91	16.93	29.93	29.25	17.17
775	0.20	19.87	16.75	28.93	28.19	17.17
800	0.20	19.82	16.56	28.06	27.34	17.17
825	0.21	19.75	16.39	27.28	26.59	17.16
850	0.22	19.72	15.98	26.36	25.64	17.13
875	0.22	19.65	15.84	25.61	25.03	17.10
900	0.24	19.59	15.52	24.92	24.25	17.08
925	0.25	19.53	15.36	24.24	23.45	17.04
950	0.25	19.46	15.10	23.39	22.82	17.00
975	0.26	19.40	14.93	22.80	22.25	16.95
1000	0.27	19.31	14.78	22.38	21.77	16.89
1050	0.29	19.19	14.17	21.46	20.92	16.79
1100	0.32	19.07	13.53	20.62	19.94	16.68
1150	0.33	18.92	13.20	19.77	19.12	16.55
1200	0.37	18.76	12.73	19.12	18.33	16.41
1250	0.39	18.57	12.35	18.60	17.81	16.27
1300	0.43	18.36	11.91	17.98	17.04	16.13
1400	0.49	18.04	11.17	16.81	15.91	15.88
1500	0.57	17.67	10.55	15.85	14.83	15.55
1600	0.65	17.31	10.06	15.03	13.95	15.21
1700	0.76	16.88	9.56	14.30	13.08	14.87
1800	0.85	16.58	8.90	13.87	12.45	14.58
1900	0.99	16.29	8.37	13.14	11.57	14.24
2000	1.12	15.83	8.07	12.74	10.82	13.91
2100	1.28	15.55	7.55	12.02	10.07	13.63
2200	1.42	15.25	7.26	11.66	9.57	13.28
2300	1.59	14.98	6.99	11.16	8.98	12.94
2400	1.80	14.72	6.51	10.55	8.40	12.59
2500	2.04	14.41	6.42	9.98	7.79	12.22
2600	2.28	14.23	6.24	9.48	7.44	11.84
2700	2.61	14.07	5.93	8.95	6.67	11.54
2800	2.94	13.96	5.41	8.47	6.24	11.15
2900	3.27	13.81	5.08	8.01	5.84	10.76
3000	3.71	13.84	4.78	7.35	5.23	10.35

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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
50	3.43	26.89	2.27	2.91	3.01	2.93
100	1.23	22.64	8.00	6.88	7.03	6.64
150	0.68	21.52	11.20	10.01	10.17	9.38
300	0.31	20.68	15.99	17.21	17.37	14.12
350	0.29	20.58	16.80	19.43	19.60	15.04
375	0.28	20.54	17.13	20.58	20.77	15.42
400	0.27	20.50	17.35	21.79	21.97	15.76
425	0.27	20.46	17.55	22.96	23.12	16.05
450	0.27	20.42	17.65	24.27	24.45	16.30
475	0.27	20.39	17.79	25.51	25.73	16.53
500	0.27	20.36	17.85	26.89	27.13	16.74
525	0.27	20.32	17.88	28.40	28.67	16.91
550	0.29	20.26	17.91	30.18	29.94	17.06
575	0.28	20.25	17.82	31.50	31.60	17.20
600	0.29	20.21	17.75	32.63	32.62	17.31
625	0.30	20.17	17.69	33.14	32.80	17.40
650	0.30	20.13	17.54	32.80	32.36	17.48
675	0.31	20.09	17.41	31.90	31.42	17.55
700	0.32	20.05	17.26	30.72	30.32	17.61
725	0.33	20.00	17.14	29.58	29.20	17.63
750	0.33	19.95	16.89	28.47	28.09	17.66
775	0.35	19.91	16.72	27.47	27.08	17.68
800	0.35	19.86	16.55	26.63	26.22	17.69
825	0.37	19.80	16.41	25.83	25.41	17.68
850	0.38	19.76	16.05	24.90	24.49	17.67
875	0.39	19.69	15.92	24.23	23.87	17.64
900	0.41	19.64	15.60	23.65	23.19	17.62
925	0.42	19.58	15.43	23.10	22.60	17.58
950	0.42	19.51	15.19	22.54	22.14	17.54
975	0.44	19.45	14.97	22.09	21.68	17.49
1000	0.46	19.40	14.67	21.70	21.17	17.45
1050	0.48	19.25	14.25	20.81	20.38	17.33
1100	0.51	19.14	13.62	20.21	19.59	17.21
1150	0.54	18.99	13.18	19.59	18.99	17.08
1200	0.57	18.84	12.73	19.01	18.31	16.92
1250	0.60	18.66	12.41	18.47	17.73	16.75
1300	0.64	18.48	11.97	17.91	17.05	16.55
1400	0.72	18.15	11.18	17.08	16.11	16.21
1500	0.80	17.79	10.60	16.29	15.13	15.82
1600	0.90	17.44	9.96	15.74	14.43	15.43
1700	1.01	17.02	9.44	15.05	13.56	15.02
1800	1.12	16.73	8.88	14.39	12.78	14.66
1900	1.26	16.42	8.48	13.78	11.98	14.26
2000	1.40	16.03	7.99	13.27	11.26	13.94
2100	1.54	15.70	7.66	12.93	10.69	13.61
2200	1.72	15.40	7.23	12.19	9.96	13.24
2300	1.92	15.13	7.07	11.66	9.40	12.88
2400	2.14	14.85	6.62	11.06	8.72	12.58
2500	2.39	14.58	6.49	10.48	8.26	12.23
2600	2.67	14.43	6.23	9.81	7.67	11.82
2700	2.99	14.26	5.73	9.32	7.15	11.52
2800	3.36	14.19	5.45	8.69	6.57	11.15
2900	3.77	14.04	5.17	8.14	6.08	10.83
3000	4.18	14.07	4.77	7.62	5.65	10.48

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