

Directional Coupler

TCD-13-4-75+

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	0.83	13.07	22.03	20.26	25.20	22.23
10	0.80	13.06	22.10	20.90	27.31	22.87
20	0.78	13.05	22.15	21.48	29.37	23.44
25	0.78	13.05	22.13	21.53	29.60	23.49
50	0.80	13.06	21.98	21.63	29.72	23.56
75	0.81	13.08	21.74	21.64	29.60	23.61
100	0.82	13.09	21.49	21.66	29.32	23.69
150	0.83	13.10	20.73	21.52	28.45	23.68
200	0.84	13.10	19.81	21.36	27.23	23.67
250	0.86	13.09	19.02	21.08	26.02	23.59
300	0.86	13.09	18.03	20.67	24.91	23.39
350	0.87	13.08	17.18	20.29	23.91	23.15
400	0.88	13.06	16.50	19.99	23.08	22.83
425	0.89	13.05	16.10	19.79	22.72	22.67
450	0.90	13.05	15.73	19.80	22.41	22.51
475	0.90	13.03	15.46	19.58	22.12	22.37
500	0.91	13.03	14.99	19.57	21.89	22.20
550	0.93	13.01	14.34	19.34	21.49	21.88
600	0.95	12.99	13.75	19.31	21.21	21.57
650	0.98	12.98	13.27	19.55	21.09	21.29
700	1.00	12.94	12.93	19.75	21.07	21.05
750	1.02	12.91	12.61	19.85	21.15	20.79
800	1.03	12.87	12.35	20.24	21.41	20.58
850	1.05	12.83	12.06	21.01	21.81	20.41
900	1.07	12.80	11.77	21.69	22.31	20.24
950	1.08	12.76	11.59	22.23	22.96	20.13
1000	1.11	12.72	11.53	22.80	23.61	20.01
1050	1.13	12.64	11.71	23.99	24.57	19.94
1100	1.14	12.56	11.62	25.25	25.65	19.87
1200	1.20	12.42	11.16	26.99	28.77	19.83
1300	1.30	12.29	10.37	29.29	33.27	19.75
1400	1.42	12.10	9.41	30.33	38.96	19.55
1500	1.56	11.91	8.65	29.67	37.87	19.16
1600	1.73	11.79	7.53	29.40	32.58	18.50
1700	1.89	11.80	7.03	26.64	29.12	17.71
1800	2.04	11.88	6.57	25.76	26.68	16.86
1900	2.21	12.02	6.60	23.26	25.00	16.12
2000	2.35	12.24	7.00	22.50	23.66	15.44
2100	2.55	12.47	7.88	20.88	22.85	14.96
2200	2.75	12.76	9.49	20.39	22.25	14.55
2300	2.99	13.15	10.61	19.47	22.06	14.30
2400	3.22	13.60	10.92	19.39	22.41	14.11
2500	3.45	14.06	9.72	19.24	23.22	13.88
2600	3.60	14.53	9.20	19.47	24.79	13.70
2700	3.74	15.01	7.99	19.97	26.68	13.51
2800	3.85	15.54	7.60	20.01	28.98	13.32
2900	3.90	16.14	9.12	20.77	31.20	13.18
3000	3.95	16.78	10.78	20.48	33.37	13.02
3100	4.03	17.20	14.61	21.90	35.00	12.85
3200	4.09	17.51	15.72	21.10	36.38	12.63
3300	4.14	17.81	10.75	21.66	36.09	12.29
3400	4.25	18.18	6.68	19.13	32.03	11.76
3500	4.40	18.95	4.23	17.86	29.12	11.21

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Directional Coupler

TCD-13-4-75+

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	1.07	13.24	21.01	16.80	19.05	18.60
10	0.90	13.06	20.82	19.24	22.73	21.20
20	0.72	12.89	20.72	22.27	28.03	24.44
25	0.70	12.87	20.75	23.02	29.67	25.27
50	0.69	12.87	20.83	25.18	33.86	27.84
75	0.68	12.87	20.70	25.37	35.49	28.19
100	0.68	12.88	20.50	24.16	35.29	26.57
150	0.70	12.88	19.92	23.30	32.89	25.86
200	0.71	12.88	19.26	23.60	31.03	26.74
250	0.72	12.87	18.51	21.75	29.00	24.48
300	0.73	12.86	17.73	21.40	26.87	24.26
350	0.74	12.84	16.98	20.48	25.00	23.51
400	0.75	12.82	16.37	19.75	23.42	22.52
425	0.76	12.82	15.99	19.52	22.79	22.29
450	0.77	12.81	15.67	19.35	22.28	22.01
475	0.77	12.79	15.41	18.82	21.80	21.58
500	0.78	12.79	14.97	18.58	21.41	21.24
550	0.80	12.77	14.38	18.32	20.80	20.88
600	0.81	12.75	13.83	18.09	20.39	20.11
650	0.84	12.72	13.41	18.38	20.14	19.78
700	0.86	12.69	13.11	18.56	20.01	19.57
750	0.87	12.65	12.88	18.98	20.05	19.23
800	0.88	12.61	12.65	20.04	20.39	19.37
850	0.89	12.56	12.46	21.20	21.04	19.43
900	0.90	12.51	12.25	22.87	21.97	19.81
950	0.91	12.46	12.16	24.67	23.29	20.25
1000	0.92	12.42	12.22	26.74	24.78	20.77
1050	0.94	12.33	12.51	30.31	27.00	21.62
1100	0.95	12.25	12.49	32.49	29.90	22.59
1200	1.01	12.10	12.12	28.96	42.44	24.72
1300	1.10	11.96	11.17	23.72	36.08	23.53
1400	1.22	11.78	9.91	22.63	31.20	20.39
1500	1.35	11.57	8.92	21.44	30.30	17.36
1600	1.50	11.47	7.62	22.62	30.84	15.50
1700	1.64	11.48	7.00	22.11	32.08	14.47
1800	1.79	11.62	6.53	23.27	32.62	14.80
1900	1.97	11.78	6.58	27.09	31.41	16.32
2000	2.12	12.05	7.09	33.77	28.11	18.95
2100	2.29	12.34	8.08	28.82	24.74	22.46
2200	2.49	12.71	9.88	19.42	21.87	21.97
2300	2.67	13.19	11.26	17.20	19.87	17.02
2400	2.91	13.70	11.51	13.90	18.95	13.58
2500	3.15	14.25	10.06	13.47	19.09	11.95
2600	3.29	14.73	9.35	13.02	20.63	10.20
2700	3.33	15.28	8.11	13.15	23.77	9.43
2800	3.36	15.91	7.62	13.33	30.20	9.12
2900	3.38	16.63	9.62	13.17	40.79	9.25
3000	3.48	17.47	12.26	13.85	30.40	9.63
3100	3.62	18.09	18.41	14.45	27.74	11.75
3200	3.68	18.55	13.91	16.18	28.73	14.46
3300	3.68	18.92	8.09	17.51	34.80	21.42
3400	3.72	19.12	4.80	18.16	38.30	23.79
3500	3.89	19.80	2.95	14.19	26.02	13.96

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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	1.00	13.32	23.44	18.82	22.82	20.78
10	0.95	13.27	23.18	19.54	24.80	21.50
20	0.92	13.23	22.87	20.08	26.77	21.99
25	0.92	13.23	22.79	20.03	27.00	21.89
50	0.94	13.25	22.47	19.48	27.16	21.17
75	0.95	13.25	22.22	19.39	26.99	21.07
100	0.96	13.26	22.00	19.96	26.65	21.77
150	0.97	13.28	21.16	20.62	26.06	22.82
200	0.98	13.28	20.10	20.07	25.33	22.28
250	0.99	13.28	19.20	20.66	24.55	23.22
300	0.99	13.28	18.24	20.59	23.94	23.52
350	1.00	13.28	17.34	20.25	23.39	23.22
400	1.01	13.27	16.62	20.63	23.01	23.80
425	1.02	13.27	16.16	20.62	22.86	23.91
450	1.03	13.27	15.80	20.68	22.75	23.85
475	1.04	13.26	15.47	20.45	22.61	23.63
500	1.05	13.26	15.00	20.52	22.53	23.56
550	1.07	13.26	14.32	20.55	22.34	23.67
600	1.09	13.26	13.65	20.47	22.20	23.40
650	1.11	13.25	13.15	20.55	22.12	22.95
700	1.14	13.23	12.77	20.64	22.04	22.71
750	1.15	13.22	12.40	20.45	21.94	22.19
800	1.17	13.20	12.07	20.38	21.97	21.53
850	1.19	13.17	11.78	20.71	22.09	21.13
900	1.21	13.15	11.45	20.95	22.28	20.54
950	1.23	13.12	11.22	21.09	22.55	19.85
1000	1.25	13.10	11.10	21.30	22.82	19.45
1050	1.28	13.04	11.21	21.91	23.30	19.00
1100	1.30	12.97	11.12	22.94	23.93	18.59
1200	1.37	12.85	10.65	24.80	26.00	18.43
1300	1.47	12.73	9.95	29.80	29.64	18.67
1400	1.60	12.56	9.07	36.94	36.64	19.37
1500	1.74	12.38	8.40	35.68	46.20	20.43
1600	1.90	12.27	7.35	29.80	31.97	20.86
1700	2.04	12.27	6.85	24.93	27.15	19.49
1800	2.18	12.33	6.42	22.45	24.42	17.47
1900	2.34	12.45	6.43	19.91	23.02	15.56
2000	2.46	12.61	6.74	19.06	22.31	14.07
2100	2.65	12.81	7.39	18.00	22.32	13.29
2200	2.83	13.03	8.61	18.21	22.69	13.01
2300	3.07	13.33	9.19	18.25	23.52	13.12
2400	3.31	13.69	9.14	19.73	24.54	13.63
2500	3.57	14.03	8.03	20.71	25.16	14.29
2600	3.77	14.40	7.60	22.06	25.56	14.87
2700	3.99	14.75	6.55	22.13	25.21	15.12
2800	4.17	15.15	6.29	20.42	24.42	14.66
2900	4.25	15.66	7.33	19.49	23.61	13.90
3000	4.27	16.20	8.30	17.45	23.17	13.02
3100	4.30	16.56	11.09	17.39	23.12	12.08
3200	4.33	16.83	16.42	16.24	23.86	11.45
3300	4.35	17.20	16.07	16.69	24.66	11.02
3400	4.50	17.67	10.03	15.79	24.67	10.82
3500	4.73	18.56	6.58	16.29	24.48	10.80

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