

Directional Coupler

TCD-18-4X+

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	0.60	17.72	32.43	22.70	24.99	22.66
10	0.59	17.70	32.68	23.13	25.73	23.09
20	0.58	17.68	33.19	23.97	27.22	23.94
50	0.59	17.69	33.64	24.25	27.82	24.18
100	0.61	17.72	34.27	24.50	28.01	24.34
150	0.62	17.74	35.47	24.67	28.08	24.37
200	0.63	17.75	37.18	24.82	28.21	24.33
250	0.63	17.76	38.20	24.92	28.23	24.26
300	0.64	17.77	37.20	25.06	28.23	24.13
350	0.65	17.78	34.85	25.25	28.15	24.02
400	0.66	17.79	32.14	25.43	28.01	23.88
450	0.67	17.80	29.72	25.53	27.98	23.72
500	0.69	17.80	27.68	25.66	28.03	23.54
550	0.70	17.82	25.81	25.81	27.91	23.37
600	0.71	17.82	24.19	26.01	27.84	23.22
650	0.73	17.84	22.78	26.05	27.79	23.04
700	0.74	17.85	21.43	26.10	27.84	22.85
750	0.76	17.86	20.30	26.17	27.81	22.68
800	0.78	17.87	19.22	26.36	27.76	22.54
850	0.80	17.87	18.28	26.50	27.66	22.40
900	0.81	17.87	17.42	26.49	27.65	22.27
950	0.82	17.86	16.62	26.52	27.68	22.13
1000	0.84	17.85	15.92	26.64	27.57	21.99
1050	0.86	17.84	15.25	26.76	27.52	21.87
1100	0.88	17.82	14.67	26.91	27.59	21.75
1200	0.92	17.77	13.51	26.97	27.55	21.56
1300	0.95	17.67	12.66	27.21	27.51	21.32
1400	0.99	17.55	11.90	27.19	27.30	21.10
1500	1.04	17.42	11.24	27.20	27.10	20.89
1600	1.08	17.25	10.71	27.30	27.01	20.71
1700	1.14	17.10	10.16	27.31	26.67	20.50
1800	1.19	16.91	9.75	27.24	26.16	20.30
1900	1.25	16.69	9.46	27.11	25.58	20.15
2000	1.31	16.49	9.04	27.01	24.91	20.04
2250	1.50	15.96	8.43	26.74	23.14	19.91
2500	1.73	15.45	8.01	26.15	20.88	20.19
2750	2.00	15.02	7.83	24.53	18.63	20.91
3000	2.31	14.79	7.64	21.80	16.77	21.58
3250	2.65	14.69	7.64	18.82	15.08	21.06
3500	2.99	14.78	7.61	16.20	13.59	19.20
3750	3.34	15.04	7.86	14.19	12.49	17.03
4000	3.64	15.40	8.09	12.72	11.64	15.40
4250	3.93	15.72	8.50	11.77	11.08	14.18
4500	4.22	16.02	8.96	11.18	10.63	13.38
4750	4.52	16.32	9.41	10.86	10.43	12.92
5000	4.88	16.44	9.72	10.71	10.38	12.36
5250	5.32	16.46	9.42	10.48	10.40	11.64
5500	5.81	16.49	8.77	10.14	10.32	10.62
5750	6.45	16.46	8.19	9.68	10.39	9.52
6000	7.06	16.21	6.95	8.73	10.35	8.33
6250	7.95	16.11	6.13	8.25	10.03	7.38
6500	8.55	15.90	5.16	7.28	9.78	6.52
7000	10.02	15.61	4.68	6.48	9.84	5.52

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Directional Coupler

TCD-18-4X+

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	0.66	17.60	25.75	20.36	21.75	20.31
10	0.61	17.53	29.73	21.82	23.71	21.73
20	0.50	17.38	37.68	24.76	27.64	24.55
50	0.47	17.35	45.83	26.52	29.71	26.28
100	0.47	17.38	42.35	26.35	30.88	26.15
150	0.48	17.38	41.08	26.37	31.37	26.27
200	0.49	17.39	39.67	26.37	30.28	26.12
250	0.49	17.39	36.12	26.05	30.03	25.55
300	0.50	17.39	34.58	26.35	29.30	25.31
350	0.51	17.39	32.37	26.18	28.79	24.79
400	0.52	17.39	30.64	26.21	28.49	24.61
450	0.54	17.39	29.05	26.02	28.02	24.16
500	0.55	17.39	27.39	25.83	27.60	23.80
550	0.56	17.38	26.13	25.82	27.18	23.47
600	0.57	17.38	24.77	25.81	26.89	23.16
650	0.58	17.37	23.64	25.87	26.79	22.90
700	0.60	17.36	22.53	25.75	26.59	22.70
750	0.61	17.35	21.60	25.71	26.28	22.43
800	0.63	17.34	20.62	25.52	26.09	22.06
850	0.65	17.32	19.74	25.48	25.97	21.81
900	0.67	17.31	18.93	25.33	25.74	21.51
950	0.69	17.29	18.16	25.28	25.58	21.38
1000	0.71	17.26	17.47	25.12	25.34	21.09
1050	0.73	17.24	16.72	24.93	25.24	20.99
1100	0.75	17.21	16.06	24.95	25.19	20.98
1200	0.79	17.13	15.00	24.89	24.95	20.76
1300	0.83	17.04	13.89	24.60	24.63	19.97
1400	0.88	16.93	13.05	24.44	24.28	19.78
1500	0.93	16.81	12.21	24.46	24.33	19.52
1600	0.99	16.66	11.57	24.46	24.18	19.34
1700	1.05	16.56	10.87	24.31	24.05	18.84
1800	1.12	16.35	10.39	24.09	23.60	19.38
1900	1.18	16.16	9.97	23.85	23.17	18.11
2000	1.26	15.97	9.58	23.46	22.62	18.50
2250	1.47	15.48	8.67	23.55	21.60	17.85
2500	1.75	14.98	8.10	23.51	19.76	18.44
2750	2.07	14.66	7.84	23.72	18.14	18.60
3000	2.42	14.37	7.67	22.18	16.52	19.65
3250	2.79	14.41	7.76	18.85	14.70	19.67
3500	3.15	14.59	7.72	16.11	13.28	18.54
3750	3.48	14.94	7.86	14.02	12.13	17.06
4000	3.77	15.40	8.09	12.31	11.33	15.45
4250	4.02	15.86	8.56	11.43	10.86	14.49
4500	4.25	16.17	8.80	10.89	10.54	14.12
4750	4.50	16.41	9.43	10.66	10.53	13.93
5000	4.78	16.51	9.51	10.39	10.47	13.42
5250	5.03	16.50	9.78	10.65	10.81	12.40
5500	5.45	16.32	9.21	10.36	10.94	11.24
5750	5.90	16.18	8.55	9.80	11.28	9.89
6000	6.53	16.00	7.28	8.90	11.41	8.18
6250	7.10	15.62	6.82	8.28	11.16	6.99
6500	7.84	15.44	6.15	7.63	10.73	6.03
7000	9.19	14.65	5.40	6.62	10.24	4.83

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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	0.74	17.96	28.44	21.33	23.50	21.44
10	0.74	17.96	28.77	21.52	23.88	21.62
20	0.74	17.94	29.43	21.90	24.64	21.97
50	0.76	17.96	30.40	21.85	25.15	21.86
100	0.77	17.99	30.87	22.36	25.11	22.23
150	0.78	18.00	31.60	22.70	25.26	22.42
200	0.78	18.03	33.02	22.81	25.81	22.45
250	0.78	18.05	33.17	23.15	26.07	22.67
300	0.79	18.08	31.87	23.26	26.43	22.61
350	0.80	18.11	30.46	23.49	26.66	22.65
400	0.81	18.15	28.46	23.67	26.82	22.64
450	0.82	18.19	26.48	23.87	27.18	22.63
500	0.83	18.23	24.66	24.15	27.43	22.66
550	0.85	18.28	23.13	24.49	27.71	22.70
600	0.86	18.32	21.71	24.83	27.97	22.76
650	0.87	18.36	20.46	25.10	28.32	22.73
700	0.88	18.40	19.25	25.35	28.72	22.75
750	0.89	18.43	18.29	25.72	28.90	22.79
800	0.91	18.45	17.38	26.03	29.25	22.77
850	0.92	18.46	16.57	26.39	29.60	22.78
900	0.94	18.47	15.84	26.89	30.00	22.74
950	0.95	18.47	15.22	27.31	30.20	22.73
1000	0.97	18.47	14.60	27.67	30.48	22.81
1050	0.98	18.45	14.06	28.18	30.83	22.81
1100	1.00	18.43	13.59	28.41	30.75	22.67
1200	1.03	18.36	12.70	29.00	30.74	22.52
1300	1.07	18.25	12.01	29.84	30.61	22.59
1400	1.11	18.13	11.45	30.15	29.90	22.37
1500	1.16	17.98	10.94	30.11	29.23	22.17
1600	1.20	17.82	10.53	29.82	28.30	22.00
1700	1.26	17.69	10.21	29.76	27.71	21.70
1800	1.31	17.48	9.74	29.67	26.72	21.65
1900	1.36	17.27	9.52	28.86	25.54	21.55
2000	1.42	17.08	9.18	28.47	24.77	21.22
2250	1.58	16.62	8.59	26.21	22.26	20.99
2500	1.79	16.16	8.18	24.74	20.18	20.83
2750	2.02	15.81	7.85	22.38	18.33	21.03
3000	2.28	15.45	7.59	20.45	16.90	21.10
3250	2.57	15.23	7.37	18.24	15.44	20.41
3500	2.89	15.06	7.09	16.25	14.13	18.94
3750	3.26	15.07	7.02	14.30	12.90	16.97
4000	3.62	15.02	6.95	12.82	11.97	15.54
4250	4.01	15.16	7.22	11.57	11.04	13.75
4500	4.40	15.20	7.21	10.81	10.28	12.64
4750	4.80	15.29	7.65	10.23	9.68	11.88
5000	5.20	15.31	7.79	9.93	9.15	11.41
5250	5.62	15.30	8.16	9.85	8.67	11.18
5500	6.12	15.10	8.23	9.94	8.48	11.03
5750	6.59	14.73	8.30	9.97	8.17	10.48
6000	7.30	14.44	7.23	10.05	8.15	9.91
6250	7.97	14.05	6.69	9.61	7.90	9.26
6500	8.87	13.53	6.39	9.16	7.76	8.22
7000	10.09	12.43	5.50	7.36	8.78	6.00

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