

Directional Coupler

TCD-18-4-75X+

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
10	0.75	17.89	32.71	21.43	23.65	21.29
15	0.75	17.89	32.47	21.61	23.96	21.50
20	0.75	17.89	32.10	21.71	24.13	21.62
25	0.76	17.90	31.62	21.74	24.16	21.66
50	0.77	17.93	31.66	21.84	24.20	21.73
75	0.78	17.94	31.61	21.89	24.29	21.83
100	0.79	17.95	31.43	21.88	24.39	21.96
125	0.79	17.96	31.94	21.97	24.46	22.07
150	0.80	17.96	31.87	21.86	24.47	22.22
175	0.80	17.97	31.83	21.92	24.50	22.42
200	0.80	17.97	31.58	21.91	24.47	22.62
250	0.81	17.97	31.01	21.81	24.34	23.02
300	0.81	17.98	30.62	21.56	24.08	23.48
350	0.82	17.98	29.03	21.33	23.79	24.02
400	0.83	17.97	27.95	21.25	23.52	24.53
425	0.83	17.98	27.16	21.09	23.34	24.83
450	0.83	17.98	26.36	21.28	23.24	25.10
475	0.84	17.97	26.06	21.04	23.12	25.40
500	0.85	17.98	24.81	21.08	23.03	25.66
550	0.86	17.97	23.54	20.86	22.80	26.17
575	0.87	17.97	23.45	21.10	22.79	26.34
600	0.88	17.99	22.23	21.01	22.74	26.54
650	0.89	17.99	21.34	21.39	22.76	26.73
700	0.91	17.99	20.63	21.60	22.86	26.76
750	0.92	17.99	19.98	21.60	23.03	26.61
800	0.94	18.00	19.30	22.26	23.38	26.35
850	0.94	18.00	18.59	23.16	23.84	25.93
900	0.95	18.01	17.93	23.92	24.49	25.47
950	0.96	18.00	17.48	24.37	25.13	25.00
975	0.96	17.98	17.61	25.31	25.67	24.82
1000	0.97	17.98	17.49	25.47	26.09	24.60
1050	0.98	17.97	17.30	26.66	27.17	24.20
1075	0.97	17.98	16.49	27.36	27.69	24.04
1100	0.98	17.98	16.71	28.47	28.32	23.88
1200	1.00	17.90	15.70	30.76	31.60	23.45
1300	1.04	17.86	14.04	33.42	34.78	23.25
1400	1.08	17.73	12.30	34.52	34.76	23.40
1500	1.13	17.51	11.11	31.04	31.78	23.56
1600	1.16	17.28	9.26	31.21	30.17	23.88
1700	1.18	17.05	8.41	29.19	28.65	23.99
1800	1.19	16.87	7.47	30.63	28.35	23.97
1900	1.24	16.71	7.19	29.80	28.30	23.54
2000	1.28	16.65	6.98	31.57	29.13	22.77
2100	1.37	16.57	7.24	31.76	30.18	21.82
2200	1.44	16.51	8.07	33.89	31.84	20.57
2300	1.53	16.42	8.61	31.74	32.54	19.54
2400	1.61	16.32	8.72	30.54	33.47	18.45
2500	1.72	16.09	7.94	27.42	32.46	17.52
2600	1.81	15.85	7.17	26.45	33.04	16.81
2700	1.96	15.34	5.27	25.89	33.75	16.35
2800	2.11	14.90	4.59	25.99	36.20	16.01
2900	2.23	14.80	4.03	25.87	36.98	15.93
3000	2.31	14.87	3.29	25.26	39.22	16.14



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Directional Coupler

TCD-18-4-75X+

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
10	0.76	17.64	26.91	19.83	20.93	19.64
15	0.70	17.55	31.10	21.53	22.87	21.39
20	0.65	17.50	34.73	22.81	24.30	22.71
25	0.64	17.49	37.81	23.66	25.20	23.61
50	0.61	17.50	42.81	26.25	27.01	26.07
75	0.60	17.51	40.30	26.51	27.91	26.26
100	0.60	17.51	38.31	25.20	28.53	25.04
125	0.61	17.52	34.97	24.40	28.83	24.53
150	0.61	17.51	33.96	24.32	28.79	25.14
175	0.61	17.52	32.28	24.98	28.68	26.11
200	0.62	17.52	31.31	24.87	28.44	25.93
250	0.63	17.51	29.14	23.03	27.48	24.45
300	0.64	17.51	27.87	22.66	26.12	25.03
350	0.64	17.51	26.45	21.83	24.85	24.70
400	0.65	17.49	25.47	21.12	23.78	24.59
425	0.66	17.49	24.83	20.86	23.29	24.63
450	0.66	17.49	24.33	20.88	22.95	24.46
475	0.67	17.48	24.00	20.32	22.59	24.33
500	0.67	17.49	23.01	20.13	22.31	24.44
550	0.68	17.47	22.35	19.75	21.88	24.57
575	0.69	17.46	22.28	19.80	21.77	24.16
600	0.70	17.47	21.34	19.55	21.62	23.83
650	0.71	17.47	20.72	19.96	21.48	23.91
700	0.73	17.44	20.51	20.11	21.46	23.57
750	0.74	17.41	20.13	20.29	21.53	23.16
800	0.74	17.40	19.72	21.79	21.91	23.24
850	0.75	17.37	19.34	22.99	22.55	22.83
900	0.76	17.35	19.05	24.70	23.57	22.89
950	0.77	17.32	19.12	26.79	24.83	22.85
975	0.78	17.28	20.36	29.51	25.97	22.81
1000	0.78	17.31	19.31	29.75	26.42	22.77
1050	0.78	17.26	20.02	35.27	28.85	23.01
1075	0.78	17.26	19.19	38.43	30.02	23.02
1100	0.78	17.23	19.94	37.26	31.72	23.23
1200	0.81	17.15	19.23	28.60	36.59	25.41
1300	0.87	17.11	16.95	23.46	30.79	29.50
1400	0.92	16.99	14.29	22.93	27.93	32.92
1500	0.96	16.78	12.54	22.66	26.52	29.80
1600	0.98	16.54	10.35	26.60	26.50	24.06
1700	0.97	16.32	9.30	30.32	26.31	20.03
1800	0.97	16.15	8.27	29.98	26.07	18.16
1900	1.03	15.99	8.00	25.19	25.86	17.11
2000	1.11	15.96	8.05	20.30	25.89	17.56
2100	1.20	15.93	8.32	19.36	27.18	19.55
2200	1.29	15.90	9.52	17.91	28.65	21.03
2300	1.34	15.84	10.15	17.93	28.15	28.91
2400	1.43	15.75	10.05	16.77	26.08	26.98
2500	1.59	15.51	8.62	17.03	24.30	19.95
2600	1.73	15.23	7.50	16.11	24.72	15.08
2700	1.85	14.73	5.36	15.83	27.01	12.59
2800	1.96	14.31	4.38	15.20	33.34	11.06
2900	2.03	14.22	3.98	14.67	39.08	10.24
3000	2.11	14.42	3.20	14.85	29.73	9.97



Directional Coupler

TCD-18-4-75X+

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
10	1.00	18.37	25.82	19.40	21.26	19.27
15	1.01	18.38	26.04	19.38	21.37	19.27
20	1.01	18.39	26.19	19.31	21.43	19.21
25	1.02	18.39	26.26	19.19	21.44	19.10
50	1.03	18.40	26.40	18.69	21.43	18.57
75	1.04	18.42	26.74	18.66	21.45	18.64
100	1.04	18.43	27.24	19.21	21.45	19.32
125	1.04	18.43	28.15	19.97	21.49	20.00
150	1.04	18.43	28.87	19.99	21.60	20.15
175	1.03	18.43	30.34	19.83	21.76	20.04
200	1.03	18.43	31.15	19.76	21.90	20.28
250	1.03	18.44	33.01	20.59	22.14	21.63
300	1.04	18.46	35.24	20.72	22.43	22.20
350	1.04	18.48	34.32	20.61	22.69	23.00
400	1.05	18.50	31.71	21.27	22.98	24.35
425	1.05	18.52	30.14	21.30	23.06	24.83
450	1.06	18.54	28.51	21.63	23.22	25.30
475	1.06	18.55	27.51	21.38	23.28	25.75
500	1.07	18.58	25.57	21.58	23.38	26.37
550	1.08	18.61	23.77	21.66	23.46	27.71
575	1.08	18.63	23.21	22.07	23.59	28.23
600	1.09	18.66	21.60	21.84	23.59	28.55
650	1.10	18.71	20.26	22.02	23.65	29.16
700	1.11	18.75	19.20	22.06	23.67	29.66
750	1.12	18.77	18.19	21.66	23.65	29.47
800	1.13	18.81	17.35	21.69	23.68	28.74
850	1.14	18.84	16.62	22.00	23.84	28.17
900	1.14	18.86	15.86	22.14	24.11	27.22
950	1.15	18.85	15.34	22.03	24.27	25.89
975	1.21	18.94	15.43	22.56	24.96	25.45
1000	1.16	18.89	14.93	22.31	24.52	24.98
1050	1.16	18.86	14.90	22.81	25.09	23.96
1075	1.16	18.88	14.16	23.11	25.26	23.48
1100	1.17	18.86	14.42	24.06	25.74	23.08
1200	1.19	18.79	13.57	25.74	27.57	22.01
1300	1.22	18.73	12.40	31.91	30.93	21.52
1400	1.27	18.58	11.15	44.67	34.46	21.77
1500	1.32	18.36	10.25	31.14	33.79	22.87
1600	1.36	18.12	8.71	26.93	30.12	25.25
1700	1.39	17.91	7.99	23.60	27.24	29.35
1800	1.40	17.73	7.10	22.76	25.80	31.15
1900	1.44	17.57	6.87	21.64	25.00	25.94
2000	1.48	17.49	6.77	22.65	25.20	21.72
2100	1.54	17.44	6.88	22.29	25.97	19.19
2200	1.59	17.38	7.71	24.38	27.49	17.68
2300	1.69	17.29	8.23	24.66	29.34	16.81
2400	1.77	17.21	8.38	28.12	32.27	16.63
2500	1.89	17.01	7.69	29.76	33.80	16.94
2600	1.98	16.81	6.98	33.80	35.30	17.64
2700	2.11	16.28	5.17	32.06	33.55	18.62
2800	2.26	15.83	4.57	26.05	31.78	19.22
2900	2.38	15.66	4.01	23.57	28.86	19.00
3000	2.42	15.68	3.27	20.23	26.78	18.16



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