

Directional Coupler

DBTC-13-5-75L+

Typical Performance Data

TEST CONDITIONS: INPUT POWER =0 dBm @Temperature = +25°C

FREQUENCY (MHz)	INSERTION LOSS (dB)	COUPLING LOSS (dB)	DIRECTIVITY (dB)	RETURN LOSS		
				IN	OUT	CPL
5	0.84	13.01	21.61	20.34	25.56	22.63
10	0.82	13.00	21.72	20.84	27.21	23.21
20	0.80	13.00	21.80	21.36	28.99	23.76
30	0.81	13.01	21.77	21.38	29.12	23.66
40	0.81	13.02	21.74	21.37	29.10	23.46
50	0.82	13.03	21.74	21.36	29.02	23.25
100	0.84	13.07	21.70	21.43	28.27	22.01
150	0.85	13.10	21.65	21.29	26.93	20.48
200	0.86	13.13	21.49	20.93	25.50	18.77
250	0.88	13.16	21.32	20.68	24.15	17.39
300	0.89	13.19	21.21	20.29	23.04	16.23
350	0.90	13.22	21.11	19.89	22.08	15.21
400	0.91	13.26	20.96	19.58	21.26	14.27
450	0.92	13.30	20.75	19.38	20.63	13.44
500	0.94	13.34	20.51	19.24	20.13	12.83
550	0.96	13.39	20.36	19.13	19.75	12.29
600	0.98	13.43	20.39	19.16	19.51	11.74
650	1.00	13.48	20.38	19.32	19.39	11.26
700	1.02	13.52	20.28	19.52	19.35	10.94
750	1.03	13.56	20.25	19.81	19.41	10.63
800	1.04	13.59	20.66	20.30	19.61	10.26
850	1.06	13.63	21.14	20.88	19.90	10.00
900	1.07	13.66	21.00	21.53	20.27	9.82
950	1.09	13.69	20.37	22.37	20.72	9.61
1000	1.09	13.73	19.92	23.27	21.23	9.42
1050	1.10	13.77	19.05	24.18	21.82	9.30
1100	1.12	13.80	18.08	25.58	22.58	9.13
1150	1.13	13.83	16.95	26.82	23.28	8.91
1200	1.15	13.88	15.67	28.14	24.09	8.83
1250	1.18	13.92	14.42	29.27	24.91	8.74
1300	1.22	13.95	13.46	30.34	25.71	8.52
1350	1.26	13.97	12.44	30.88	26.22	8.32
1400	1.30	13.99	11.50	30.85	26.56	8.21
1450	1.36	14.01	10.88	30.40	26.66	8.07
1500	1.41	14.04	10.60	30.17	26.26	7.80
1550	1.46	14.05	10.38	29.74	25.69	7.56
1600	1.53	14.06	10.04	29.32	24.89	7.41
1650	1.59	14.10	9.71	29.48	23.97	7.22
1700	1.64	14.17	9.69	29.00	23.06	6.94
1750	1.71	14.22	10.00	27.90	22.13	6.73
1800	1.78	14.28	10.04	26.98	21.29	6.60
1900	1.92	14.49	9.89	23.83	19.58	6.26
2000	2.00	14.67	9.79	21.40	18.23	6.07
2100	2.10	14.85	8.59	19.14	17.03	5.97
2200	2.20	15.04	7.00	17.44	15.96	6.04
2300	2.31	15.37	5.22	16.11	14.94	6.19
2400	2.50	15.61	3.86	15.29	14.22	6.36
2500	2.98	15.72	2.85	14.96	13.82	6.58
2750	4.33	16.14	2.08	14.28	12.89	7.24
3000	5.31	16.31	3.05	13.24	12.14	7.91
3250	5.02	16.11	1.24	12.79	12.17	8.50
3500	4.33	19.22	4.78	11.44	10.90	8.85
4000	8.01	33.30	15.16	9.57	9.60	9.02

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Directional Coupler

DBTC-13-5-75L+

Typical Performance Data

TEST CONDITIONS: INPUT POWER =0 dBm @Temperature = -40°C

FREQUENCY (MHz)	INSERTION LOSS (dB)	COUPLING LOSS (dB)	DIRECTIVITY (dB)	RETURN LOSS		
				IN	(dB) OUT	CPL
5	1.00	13.22	22.88	17.82	20.47	20.21
10	0.87	13.13	23.08	19.75	24.13	22.57
20	0.73	13.04	23.24	22.19	29.28	25.49
30	0.71	13.02	23.20	23.08	31.52	26.36
40	0.71	13.01	23.09	23.76	32.66	26.84
50	0.70	13.00	22.91	24.29	33.19	27.15
100	0.71	13.01	22.70	23.63	32.53	25.14
150	0.72	13.03	22.64	22.48	29.91	21.49
200	0.73	13.04	22.53	22.88	27.99	20.15
250	0.74	13.05	22.37	21.41	26.35	18.08
300	0.75	13.07	22.28	20.69	24.82	16.44
350	0.76	13.09	22.16	20.05	23.41	15.42
400	0.77	13.11	21.99	19.09	22.11	14.11
450	0.78	13.14	21.85	18.80	21.04	13.12
500	0.80	13.17	21.58	18.14	20.13	12.36
550	0.81	13.19	21.54	17.80	19.44	11.73
600	0.82	13.21	21.70	17.90	19.00	11.15
650	0.84	13.25	21.80	18.07	18.76	10.69
700	0.85	13.26	21.75	18.41	18.68	10.42
750	0.86	13.27	21.84	18.86	18.76	10.17
800	0.86	13.28	22.43	19.89	19.06	10.04
850	0.87	13.29	23.01	21.03	19.56	9.96
900	0.87	13.28	22.72	22.53	20.19	9.99
950	0.87	13.28	21.75	24.94	21.04	10.07
1000	0.87	13.29	20.67	27.37	22.06	10.01
1050	0.88	13.30	19.16	31.75	23.44	9.99
1100	0.88	13.30	17.92	42.97	25.23	9.81
1150	0.88	13.29	16.60	44.12	27.14	9.49
1200	0.90	13.32	15.11	35.13	29.08	9.23
1250	0.93	13.35	13.84	33.25	30.31	8.78
1300	0.96	13.35	12.88	31.05	30.58	8.21
1350	0.99	13.36	11.92	29.66	29.96	7.66
1400	1.02	13.37	10.97	30.07	29.19	7.27
1450	1.06	13.37	10.39	29.89	28.54	6.94
1500	1.10	13.37	10.17	28.55	27.71	6.54
1550	1.14	13.38	10.05	27.22	27.05	6.29
1600	1.19	13.39	9.80	24.73	26.19	6.20
1650	1.22	13.40	9.56	21.77	25.08	6.15
1700	1.27	13.44	9.69	19.58	23.95	6.18
1750	1.35	13.49	10.11	18.33	22.94	6.38
1800	1.42	13.54	10.28	17.91	22.04	6.64
1900	1.58	13.67	10.32	16.88	20.34	7.13
2000	1.67	13.79	10.10	17.15	19.29	7.53
2100	1.80	13.83	8.58	20.59	18.45	7.45
2200	1.90	13.96	6.54	27.30	17.22	6.83
2300	2.09	14.20	4.64	23.39	15.87	5.76
2400	2.32	14.40	3.23	16.76	15.10	4.91
2500	2.86	14.62	2.22	12.09	14.85	4.47
2750	4.10	15.48	1.26	9.45	13.85	5.35
3000	5.08	15.75	2.29	12.08	12.13	9.40
3250	4.67	15.72	0.14	20.58	11.74	13.35
3500	3.53	18.64	5.44	12.79	11.26	7.12
4000	6.52	32.60	14.19	4.17	8.76	3.51

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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		
				IN	OUT	CPL
5	0.95	13.12	21.44	19.11	23.09	21.10
10	0.92	13.10	21.51	19.79	25.01	21.86
20	0.89	13.08	21.58	20.42	27.17	22.51
30	0.90	13.10	21.59	20.23	27.43	22.20
40	0.91	13.11	21.57	19.97	27.43	21.78
50	0.91	13.12	21.51	19.76	27.36	21.38
100	0.94	13.16	21.51	20.17	26.51	20.59
150	0.95	13.20	21.43	20.67	25.46	20.02
200	0.97	13.24	21.21	19.97	24.33	18.15
250	0.98	13.28	21.04	20.34	23.27	17.23
300	0.99	13.32	20.87	20.31	22.49	16.32
350	1.00	13.36	20.68	19.94	21.78	15.33
400	1.02	13.41	20.52	20.03	21.24	14.60
450	1.03	13.46	20.23	20.06	20.85	13.87
500	1.05	13.52	19.89	20.00	20.53	13.30
550	1.07	13.58	19.69	20.06	20.33	12.77
600	1.09	13.64	19.63	20.06	20.21	12.20
650	1.11	13.70	19.52	20.09	20.14	11.68
700	1.13	13.77	19.36	20.27	20.08	11.28
750	1.15	13.82	19.30	20.24	20.01	10.87
800	1.16	13.88	19.67	20.38	20.01	10.34
850	1.18	13.93	20.09	20.74	20.09	9.99
900	1.19	13.98	19.92	20.93	20.17	9.70
950	1.21	14.03	19.43	21.36	20.29	9.39
1000	1.22	14.08	19.17	21.73	20.46	9.15
1050	1.23	14.12	18.68	21.98	20.70	8.98
1100	1.26	14.20	17.78	22.80	21.14	8.82
1150	1.27	14.22	16.93	23.55	21.58	8.62
1200	1.29	14.28	15.73	24.24	22.15	8.60
1250	1.33	14.33	14.51	24.96	22.86	8.62
1300	1.37	14.35	13.56	25.46	23.73	8.52
1350	1.41	14.38	12.56	25.82	24.55	8.45
1400	1.46	14.40	11.62	26.14	25.53	8.46
1450	1.52	14.43	11.02	26.44	26.34	8.39
1500	1.58	14.46	10.74	26.83	26.63	8.20
1550	1.64	14.48	10.45	27.13	26.32	8.01
1600	1.71	14.50	10.07	27.60	25.46	7.85
1650	1.77	14.54	9.75	29.80	24.24	7.57
1700	1.82	14.61	9.68	33.39	22.96	7.16
1750	1.89	14.68	9.93	36.90	21.74	6.84
1800	1.95	14.73	9.87	35.95	20.68	6.60
1900	2.08	14.95	9.69	25.13	18.67	6.02
2000	2.15	15.15	9.59	20.53	17.17	5.69
2100	2.23	15.34	8.52	17.34	15.97	5.58
2200	2.32	15.54	7.08	15.48	15.06	5.76
2300	2.41	15.85	5.40	14.35	14.22	6.18
2400	2.59	16.07	4.10	14.14	13.77	6.59
2500	3.07	16.10	3.14	14.78	13.54	7.08
2750	4.46	16.33	2.51	15.99	12.75	7.49
3000	5.43	16.39	3.56	12.82	11.71	7.22
3250	5.10	15.99	1.94	11.06	11.68	7.62
3500	4.57	18.93	4.14	10.50	10.77	8.98
4000	8.35	28.10	9.99	11.31	10.01	10.14

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