

Directional Coupler

DBTC-12-4L+

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	0.75	11.80	38.35	22.49	32.05	20.76
10	0.74	11.80	38.77	22.82	35.00	21.01
15	0.73	11.80	39.19	23.14	37.95	21.25
20	0.72	11.80	39.39	23.34	39.74	21.39
25	0.73	11.80	39.36	23.40	40.39	21.40
50	0.74	11.82	39.04	23.60	41.26	21.51
100	0.76	11.86	37.49	23.78	39.84	21.75
150	0.77	11.90	35.78	23.92	37.99	21.89
200	0.78	11.93	33.94	24.02	36.65	22.01
250	0.80	11.97	32.05	24.07	35.11	22.13
300	0.81	12.02	30.18	24.06	34.07	22.16
350	0.82	12.07	28.34	24.02	33.13	22.16
400	0.83	12.12	26.72	23.99	32.02	22.13
450	0.85	12.18	25.19	23.96	30.95	22.01
500	0.87	12.24	23.75	23.87	30.00	21.86
550	0.89	12.31	22.45	23.79	29.32	21.65
600	0.91	12.39	21.23	23.71	28.42	21.37
650	0.94	12.47	20.10	23.61	27.52	21.06
700	0.96	12.56	19.08	23.57	26.77	20.69
750	0.99	12.66	18.10	23.38	26.10	20.28
800	1.03	12.76	17.20	23.27	25.35	19.84
850	1.06	12.88	16.37	23.14	24.60	19.37
900	1.09	12.99	15.62	22.95	23.91	18.88
950	1.13	13.12	14.91	22.81	23.24	18.38
1000	1.17	13.25	14.25	22.52	22.61	17.87
1050	1.22	13.39	13.62	22.33	21.95	17.37
1100	1.27	13.55	13.06	22.08	21.31	16.87
1150	1.32	13.71	12.52	21.77	20.68	16.38
1200	1.38	13.88	12.01	21.48	20.06	15.91
1250	1.44	14.06	11.56	21.20	19.46	15.44
1300	1.50	14.25	11.10	20.90	18.88	15.00
1400	1.64	14.66	10.35	20.22	17.75	14.18
1500	1.81	15.12	9.69	19.54	16.64	13.41
1600	1.99	15.63	9.22	18.88	15.69	12.72
1700	2.19	16.18	8.95	18.26	14.78	12.10
1800	2.42	16.76	8.89	17.61	13.98	11.54
1900	2.65	17.34	9.16	17.06	13.33	11.07
2000	2.90	17.90	9.89	16.54	12.66	10.65
2100	3.15	18.41	11.25	16.07	12.21	10.25
2200	3.40	18.80	13.68	15.69	11.75	9.90
2300	3.65	19.05	17.98	15.34	11.46	9.58
2400	3.88	19.15	22.39	15.03	11.22	9.29
2500	4.09	19.09	17.01	14.73	11.05	9.00
2600	4.29	18.88	12.16	14.51	10.95	8.75
2700	4.46	18.61	9.09	14.29	10.94	8.49
2800	4.63	18.31	6.90	14.04	10.93	8.24
2900	4.78	17.99	5.27	13.78	11.00	8.00
3000	4.92	17.70	4.04	13.49	11.07	7.76
3250	5.32	17.14	1.75	12.69	11.33	7.17
3500	5.85	16.95	0.06	11.65	11.40	6.67
4000	7.81	18.46	3.74	9.12	10.11	6.10
4500	11.98	25.26	13.10	6.69	7.70	7.54
5000	15.50	21.87	11.70	5.16	6.44	11.42

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Directional Coupler

DBTC-12-4L+

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	0.82	11.89	33.75	20.07	23.79	18.12
10	0.75	11.83	35.62	21.64	27.37	19.56
15	0.67	11.76	37.49	23.22	30.94	21.00
20	0.63	11.73	38.55	24.10	33.34	21.83
25	0.62	11.73	38.81	24.30	34.58	22.07
50	0.62	11.73	38.80	24.70	35.96	22.77
100	0.63	11.76	37.10	25.41	35.26	22.86
150	0.64	11.78	35.36	25.76	35.40	22.76
200	0.65	11.81	33.42	25.37	32.90	22.99
250	0.66	11.84	31.65	25.37	31.91	22.77
300	0.68	11.88	30.04	25.07	31.03	22.77
350	0.68	11.91	28.45	24.84	30.12	22.67
400	0.69	11.95	27.03	24.76	29.39	22.44
450	0.71	12.00	25.61	24.56	28.38	22.33
500	0.72	12.05	24.24	24.45	27.76	22.04
550	0.74	12.10	22.95	24.27	27.20	21.77
600	0.75	12.16	21.73	24.06	26.46	21.44
650	0.77	12.23	20.58	23.82	25.64	21.07
700	0.79	12.30	19.56	23.53	24.80	20.78
750	0.81	12.38	18.59	23.32	24.35	20.36
800	0.84	12.46	17.70	23.20	23.78	19.92
850	0.86	12.55	16.84	22.93	23.08	19.45
900	0.88	12.66	16.05	22.60	22.47	18.88
950	0.92	12.76	15.27	22.31	21.87	18.39
1000	0.95	12.88	14.55	21.94	21.33	17.81
1050	0.99	13.01	13.88	21.68	20.75	17.26
1100	1.03	13.15	13.28	21.55	20.38	16.78
1150	1.07	13.29	12.69	21.36	19.88	16.27
1200	1.12	13.46	12.11	20.93	19.15	15.78
1250	1.18	13.64	11.58	20.43	18.49	15.27
1300	1.23	13.84	11.03	19.94	17.96	14.77
1400	1.37	14.27	10.05	19.35	17.09	13.93
1500	1.54	14.81	9.11	18.27	15.72	13.08
1600	1.73	15.43	8.29	17.50	14.86	12.35
1700	1.96	16.15	7.58	16.90	13.96	11.68
1800	2.22	17.03	6.94	16.00	13.04	11.01
1900	2.53	18.02	6.44	15.40	12.12	10.49
2000	2.84	19.09	6.12	14.72	11.62	9.99
2100	3.18	20.19	6.01	14.28	11.03	9.66
2200	3.53	21.14	6.19	13.79	10.56	9.28
2300	3.84	21.68	6.46	13.28	10.41	8.99
2400	4.13	21.71	6.30	13.18	10.07	8.69
2500	4.33	21.20	5.47	13.01	10.18	8.54
2600	4.51	20.39	4.47	12.95	9.98	8.29
2700	4.62	19.57	3.46	12.85	10.16	8.09
2800	4.67	18.82	2.59	12.87	10.39	7.89
2900	4.70	18.15	1.88	13.08	10.55	7.60
3000	4.74	17.54	1.33	13.23	10.52	7.42
3250	4.88	16.60	0.04	12.84	11.27	6.93
3500	5.34	16.27	1.26	11.52	11.53	6.32
4000	7.58	17.36	4.27	8.50	9.64	5.80
4500	11.60	22.58	11.43	6.34	7.47	6.85
5000	13.95	19.22	9.46	5.11	6.32	10.02

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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	0.88	11.91	39.85	21.10	29.38	19.66
10	0.87	11.91	40.26	21.40	30.83	19.88
15	0.86	11.91	40.68	21.70	32.29	20.10
20	0.86	11.91	40.81	21.90	33.07	20.22
25	0.86	11.92	40.68	21.99	33.18	20.23
50	0.88	11.94	39.98	22.33	33.35	20.23
100	0.89	11.99	37.67	22.44	34.97	20.52
150	0.91	12.03	35.57	22.41	35.67	20.92
200	0.92	12.08	33.45	22.68	35.60	21.04
250	0.93	12.13	31.45	22.82	36.31	21.29
300	0.94	12.19	29.45	22.87	36.04	21.51
350	0.96	12.25	27.59	23.01	35.94	21.58
400	0.98	12.32	25.90	23.10	35.39	21.68
450	1.00	12.40	24.35	23.18	34.27	21.72
500	1.02	12.49	22.90	23.23	33.38	21.67
550	1.04	12.58	21.62	23.25	32.64	21.58
600	1.07	12.67	20.44	23.28	31.50	21.41
650	1.09	12.78	19.37	23.33	30.44	21.13
700	1.12	12.88	18.41	23.42	29.52	20.78
750	1.15	13.00	17.50	23.36	28.60	20.36
800	1.18	13.11	16.68	23.36	27.59	19.90
850	1.22	13.23	15.94	23.34	26.63	19.41
900	1.25	13.36	15.26	23.27	25.75	18.91
950	1.30	13.49	14.63	23.20	24.86	18.40
1000	1.34	13.62	14.06	22.98	24.12	17.89
1050	1.38	13.75	13.55	22.94	23.45	17.39
1100	1.43	13.89	13.07	22.81	22.73	16.89
1150	1.48	14.03	12.63	22.58	22.02	16.39
1200	1.54	14.18	12.21	22.39	21.34	15.94
1250	1.59	14.33	11.86	22.21	20.70	15.49
1300	1.65	14.48	11.52	21.99	20.09	15.07
1400	1.78	14.80	10.95	21.38	18.87	14.30
1500	1.93	15.13	10.50	20.85	17.80	13.56
1600	2.08	15.47	10.25	20.38	16.84	12.90
1700	2.25	15.83	10.18	19.85	15.91	12.27
1800	2.42	16.18	10.32	19.28	15.19	11.76
1900	2.61	16.51	10.70	18.76	14.60	11.32
2000	2.81	16.82	11.39	18.20	13.89	10.90
2100	3.01	17.11	12.44	17.71	13.47	10.45
2200	3.22	17.36	14.03	17.32	12.94	10.09
2300	3.43	17.54	16.16	16.94	12.59	9.74
2400	3.63	17.69	18.28	16.48	12.30	9.41
2500	3.84	17.79	18.46	16.03	12.00	9.06
2600	4.04	17.82	16.04	15.71	11.81	8.76
2700	4.25	17.82	13.26	15.40	11.65	8.47
2800	4.46	17.79	10.78	14.95	11.48	8.19
2900	4.66	17.73	8.75	14.47	11.42	7.95
3000	4.86	17.69	7.16	13.94	11.44	7.66
3250	5.41	17.57	4.16	12.93	11.30	7.02
3500	6.02	17.58	2.01	11.94	11.02	6.50
4000	7.79	18.95	2.16	9.51	9.84	5.77
4500	11.53	25.93	12.30	6.90	7.55	6.76
5000	16.89	26.01	15.77	4.94	6.19	11.72

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