

Directional Coupler

DBTC-12-4+

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	11.84	36.70	22.54	32.57	20.42
10	0.74	11.83	38.57	23.03	37.34	20.88
15	0.74	11.84	39.15	23.17	39.68	20.99
20	0.74	11.84	39.60	23.21	40.95	21.00
25	0.74	11.84	39.86	23.25	41.65	20.99
50	0.76	11.87	40.66	23.42	42.21	21.04
75	0.77	11.88	41.15	23.56	42.82	21.10
100	0.78	11.89	41.04	23.69	42.65	21.15
150	0.79	11.92	40.53	23.91	41.35	21.20
200	0.80	11.93	39.25	24.09	40.84	21.24
250	0.80	11.95	37.17	24.17	39.51	21.22
300	0.81	11.98	34.73	24.25	38.28	21.11
350	0.82	12.00	32.91	24.30	37.41	20.96
400	0.83	12.03	30.82	24.39	36.06	20.78
450	0.83	12.06	29.00	24.42	34.67	20.53
500	0.84	12.10	27.30	24.49	33.47	20.21
550	0.86	12.13	25.84	24.52	32.40	19.90
600	0.87	12.17	24.54	24.53	31.32	19.55
650	0.89	12.22	23.30	24.46	30.16	19.14
700	0.91	12.27	22.13	24.39	29.11	18.70
750	0.92	12.33	21.08	24.29	28.16	18.28
800	0.94	12.39	20.16	24.22	27.26	17.88
850	0.95	12.46	19.28	24.11	26.33	17.41
900	0.98	12.53	18.45	23.83	25.52	16.91
950	1.01	12.61	17.67	23.69	24.68	16.44
1000	1.04	12.69	17.01	23.54	23.94	15.98
1050	1.07	12.77	16.37	23.27	23.25	15.54
1100	1.11	12.86	15.79	22.97	22.60	15.06
1150	1.15	12.95	15.26	22.68	21.83	14.59
1200	1.19	13.06	14.73	22.37	21.12	14.17
1250	1.23	13.17	14.28	21.95	20.54	13.75
1300	1.27	13.29	13.89	21.54	20.00	13.34
1400	1.37	13.54	13.10	20.68	18.66	12.57
1500	1.50	13.81	12.53	19.87	17.61	11.80
1600	1.63	14.11	12.18	19.18	16.64	11.20
1700	1.77	14.43	11.91	18.37	15.65	10.53
1800	1.94	14.78	11.93	17.73	14.88	10.00
1900	2.12	15.12	12.20	17.02	14.15	9.47
2000	2.32	15.49	12.68	16.38	13.36	8.99
2100	2.54	15.83	13.74	15.79	12.78	8.55
2200	2.76	16.13	15.43	15.34	12.22	8.19
2300	2.99	16.40	18.43	14.90	11.74	7.75
2400	3.23	16.59	24.13	14.42	11.35	7.49
2500	3.46	16.70	27.36	14.00	11.08	7.12
2600	3.70	16.71	18.98	13.56	10.76	6.85
2700	3.93	16.64	14.28	13.08	10.62	6.59
2800	4.16	16.49	11.04	12.62	10.50	6.34
2900	4.35	16.31	8.80	12.17	10.44	6.11
3000	4.59	16.07	7.07	11.60	10.39	5.92
3500	6.03	15.02	2.25	8.94	10.14	5.04
4000	8.81	15.06	0.02	6.29	8.69	4.55
4500	13.58	17.09	2.06	4.70	6.54	4.44
5000	15.40	22.81	8.69	4.52	5.19	5.72

REV. X1
DBTC-12-4+
081119
Page 1 of 3



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Directional Coupler

DBTC-12-4+

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	0.91	11.96	47.56	19.44	23.72	17.38
10	0.75	11.79	48.11	21.77	28.25	19.50
15	0.70	11.73	47.97	22.88	31.44	20.49
20	0.68	11.72	47.16	23.44	33.90	20.97
25	0.67	11.72	46.62	23.78	35.69	21.24
50	0.65	11.72	43.97	24.58	37.55	21.89
75	0.65	11.72	43.22	24.81	35.66	22.20
100	0.65	11.73	43.16	24.88	35.35	22.38
150	0.65	11.74	43.14	25.31	38.35	22.47
200	0.66	11.76	38.01	25.38	35.79	22.43
250	0.66	11.77	36.03	25.16	35.23	22.24
300	0.67	11.79	34.15	25.29	34.64	21.91
350	0.67	11.81	32.06	25.03	33.60	21.58
400	0.68	11.83	30.63	25.09	32.95	21.25
450	0.68	11.86	28.97	25.20	32.33	20.92
500	0.69	11.88	27.33	25.18	31.64	20.54
550	0.70	11.91	25.99	25.02	30.67	20.19
600	0.71	11.95	24.81	24.91	29.85	19.78
650	0.72	11.98	23.59	24.52	28.69	19.33
700	0.73	12.03	22.49	24.48	28.11	18.83
750	0.75	12.07	21.64	24.48	27.51	18.39
800	0.76	12.12	20.60	23.98	26.43	17.98
850	0.77	12.18	19.79	23.86	25.66	17.50
900	0.79	12.24	19.00	23.58	25.12	16.99
950	0.81	12.31	18.16	23.20	24.23	16.50
1000	0.84	12.38	17.53	23.12	23.76	16.02
1050	0.87	12.46	16.82	22.82	23.20	15.55
1100	0.90	12.53	16.22	22.39	22.41	15.06
1150	0.93	12.62	15.70	22.33	22.06	14.58
1200	0.96	12.72	15.14	22.04	21.29	14.16
1250	1.00	12.84	14.56	21.13	20.30	13.73
1300	1.04	12.95	14.16	20.67	19.73	13.31
1400	1.14	13.21	13.32	19.91	18.55	12.52
1500	1.25	13.51	12.63	18.77	17.38	11.70
1600	1.37	13.82	12.28	18.43	16.45	11.07
1700	1.52	14.19	11.94	17.59	15.57	10.39
1800	1.71	14.61	11.74	16.56	14.46	9.83
1900	1.88	15.01	12.01	16.31	14.00	9.29
2000	2.10	15.49	12.31	15.31	12.88	8.80
2100	2.32	15.92	13.44	15.05	12.55	8.34
2200	2.57	16.34	15.19	14.38	11.94	7.98
2300	2.81	16.70	18.61	14.30	11.40	7.53
2400	3.08	16.98	26.47	13.59	10.99	7.28
2500	3.31	17.11	26.83	13.21	10.73	6.94
2600	3.59	17.15	17.34	12.21	10.37	6.68
2700	3.78	17.02	12.56	12.23	10.37	6.43
2800	4.00	16.79	9.70	11.90	10.08	6.17
2900	4.16	16.55	7.49	11.36	10.21	5.96
3000	4.36	16.22	5.89	10.99	10.14	5.80
3500	5.61	14.90	1.45	8.26	10.18	4.98
4000	8.27	14.91	0.68	5.70	8.51	4.51
4500	12.57	16.97	2.96	4.30	6.40	4.50
5000	14.38	24.12	10.95	4.22	5.07	5.95

REV. X1
DBTC-12-4+
081119
Page 2 of 3



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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	0.87	11.95	38.30	21.28	29.96	19.43
10	0.86	11.94	40.94	21.70	32.56	19.79
15	0.86	11.94	41.83	21.82	33.38	19.86
20	0.87	11.95	42.73	21.86	33.68	19.87
25	0.87	11.96	43.07	21.89	33.86	19.87
50	0.89	11.98	45.20	22.00	34.24	19.93
75	0.90	12.00	46.40	22.13	35.20	19.99
100	0.91	12.01	44.70	22.30	36.16	20.04
150	0.92	12.04	40.12	22.59	36.29	20.13
200	0.93	12.06	37.92	22.81	37.69	20.25
250	0.93	12.09	35.74	23.04	39.34	20.32
300	0.94	12.12	32.80	23.14	39.49	20.33
350	0.95	12.15	31.08	23.28	42.01	20.30
400	0.96	12.19	29.19	23.47	42.77	20.25
450	0.97	12.24	27.40	23.53	40.67	20.15
500	0.98	12.28	25.86	23.67	38.52	19.95
550	1.00	12.33	24.58	23.77	36.36	19.74
600	1.01	12.39	23.38	23.87	34.67	19.47
650	1.03	12.44	22.29	23.94	32.94	19.12
700	1.05	12.51	21.27	24.01	31.49	18.71
750	1.06	12.57	20.31	23.95	30.13	18.32
800	1.08	12.64	19.49	23.98	28.85	17.92
850	1.10	12.72	18.78	24.07	27.77	17.46
900	1.13	12.80	18.06	23.88	26.78	16.95
950	1.16	12.88	17.37	23.79	25.76	16.48
1000	1.20	12.96	16.82	23.74	24.94	16.03
1050	1.24	13.04	16.26	23.52	24.14	15.59
1100	1.27	13.11	15.79	23.32	23.45	15.12
1150	1.31	13.20	15.31	23.02	22.56	14.65
1200	1.35	13.29	14.87	22.73	21.79	14.24
1250	1.39	13.39	14.53	22.53	21.25	13.83
1300	1.43	13.48	14.24	22.22	20.76	13.43
1400	1.54	13.68	13.58	21.39	19.35	12.70
1500	1.65	13.89	13.18	20.80	18.35	11.95
1600	1.78	14.09	12.96	20.20	17.46	11.39
1700	1.91	14.32	12.78	19.36	16.35	10.74
1800	2.06	14.54	12.94	18.88	15.72	10.23
1900	2.21	14.75	13.20	18.23	15.15	9.71
2000	2.38	14.97	13.52	17.65	14.37	9.23
2100	2.57	15.17	14.10	16.99	13.75	8.79
2200	2.75	15.34	14.84	16.49	13.21	8.42
2300	2.94	15.49	15.58	16.15	12.84	7.95
2400	3.14	15.60	16.02	15.62	12.40	7.68
2500	3.34	15.70	15.63	15.03	12.10	7.28
2600	3.54	15.74	14.79	14.81	11.73	6.97
2700	3.76	15.77	13.24	14.09	11.59	6.68
2800	3.97	15.76	11.48	13.69	11.44	6.38
2900	4.17	15.76	9.97	13.06	11.26	6.12
3000	4.41	15.71	8.63	12.46	11.06	5.90
3500	5.91	15.38	3.80	9.82	10.28	4.83
4000	8.35	15.29	1.21	7.16	8.89	4.20
4500	12.97	16.19	0.23	5.15	6.65	3.97
5000	17.74	18.60	3.43	4.57	4.95	5.17

REV. X1
DBTC-12-4+
081119
Page 3 of 3



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