

Directional Coupler

DBTC-9-4+

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	1.06	8.78	20.88	19.79	30.97	19.72
10	1.05	8.78	20.95	20.03	31.85	19.96
15	1.04	8.78	21.01	20.23	32.52	20.15
20	1.04	8.78	21.01	20.28	32.57	20.20
25	1.05	8.79	21.02	20.33	32.58	20.23
50	1.06	8.80	20.95	20.50	32.20	20.35
100	1.07	8.83	20.74	20.73	31.51	20.46
150	1.08	8.85	20.48	20.86	30.93	20.40
200	1.09	8.85	20.17	20.90	30.41	20.22
250	1.10	8.85	19.85	20.92	29.88	19.92
300	1.11	8.85	19.48	20.91	29.30	19.53
350	1.12	8.85	19.07	20.78	28.84	19.06
400	1.13	8.84	18.63	20.75	28.36	18.56
450	1.14	8.83	18.18	20.59	27.85	18.03
500	1.15	8.83	17.75	20.46	27.24	17.49
550	1.17	8.81	17.30	20.28	26.67	16.95
600	1.18	8.80	16.83	20.13	26.19	16.39
650	1.20	8.79	16.37	19.93	25.61	15.86
700	1.22	8.78	15.93	19.66	24.98	15.35
750	1.25	8.77	15.51	19.39	24.43	14.85
800	1.27	8.75	15.08	19.13	23.90	14.36
850	1.29	8.74	14.68	18.87	23.39	13.89
900	1.33	8.73	14.28	18.53	22.77	13.45
950	1.36	8.72	13.90	18.20	22.13	13.02
1000	1.40	8.71	13.56	17.87	21.66	12.60
1050	1.43	8.70	13.18	17.55	21.15	12.21
1100	1.47	8.69	12.82	17.22	20.58	11.85
1150	1.51	8.68	12.48	16.84	20.05	11.49
1200	1.56	8.67	12.15	16.49	19.49	11.15
1250	1.61	8.66	11.82	16.15	19.01	10.84
1300	1.67	8.65	11.49	15.79	18.47	10.55
1400	1.79	8.62	10.87	15.12	17.49	10.01
1500	1.94	8.59	10.27	14.44	16.47	9.55
1600	2.09	8.56	9.68	13.84	15.58	9.13
1700	2.27	8.52	9.15	13.23	14.68	8.78
1800	2.47	8.47	8.65	12.68	13.91	8.48
1900	2.70	8.43	8.18	12.15	13.07	8.23
2000	2.96	8.37	7.72	11.66	12.43	8.03
2100	3.24	8.31	7.32	11.22	11.76	7.86
2200	3.55	8.25	6.94	10.80	11.13	7.72
2300	3.89	8.20	6.62	10.42	10.58	7.62
2400	4.27	8.14	6.36	10.10	10.04	7.54
2500	4.69	8.09	6.15	9.83	9.56	7.48
2600	5.13	8.03	6.00	9.63	9.11	7.47
2700	5.59	7.99	5.91	9.49	8.73	7.47
2800	6.10	7.95	5.87	9.46	8.32	7.51
2900	6.62	7.94	5.85	9.53	8.00	7.59
3000	7.17	7.93	5.90	9.76	7.71	7.74
3100	7.74	7.95	5.96	10.16	7.41	7.93
3200	8.33	7.99	6.05	10.78	7.16	8.21
3300	8.95	8.08	6.10	11.72	6.93	8.60
3400	9.62	8.20	6.13	13.04	6.69	9.07
3500	10.32	8.38	6.08	14.84	6.48	9.67

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Directional Coupler

DBTC-9-4+

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	1.22	8.89	20.07	17.80	24.24	17.62
10	1.11	8.81	20.30	19.05	26.74	18.80
15	1.02	8.75	20.49	20.05	28.75	19.77
20	1.00	8.74	20.55	20.33	29.31	20.08
25	0.99	8.74	20.61	20.52	29.62	20.30
50	0.98	8.74	20.72	20.84	29.10	20.89
100	0.98	8.75	20.70	21.41	29.01	20.96
150	0.99	8.76	20.50	21.73	29.31	20.66
200	0.99	8.76	20.14	21.48	28.34	20.60
250	1.00	8.77	19.75	21.52	28.28	20.12
300	1.01	8.76	19.35	21.36	27.80	19.68
350	1.02	8.75	18.95	21.16	27.47	19.23
400	1.03	8.75	18.54	21.16	27.30	18.65
450	1.04	8.74	18.10	20.92	26.83	18.17
500	1.05	8.72	17.67	20.81	26.50	17.62
550	1.06	8.71	17.23	20.55	25.90	17.06
600	1.07	8.69	16.78	20.38	25.63	16.52
650	1.09	8.67	16.34	20.28	25.41	15.98
700	1.10	8.66	15.92	20.01	24.83	15.51
750	1.12	8.64	15.50	19.75	24.41	15.02
800	1.14	8.62	15.06	19.42	23.87	14.54
850	1.16	8.61	14.63	19.11	23.41	14.07
900	1.19	8.59	14.22	18.79	23.00	13.60
950	1.21	8.57	13.84	18.47	22.43	13.16
1000	1.24	8.55	13.50	18.18	22.08	12.70
1050	1.27	8.54	13.11	17.81	21.52	12.29
1100	1.30	8.53	12.74	17.42	20.96	11.93
1150	1.34	8.51	12.39	17.00	20.40	11.54
1200	1.38	8.50	12.07	16.59	19.78	11.17
1250	1.42	8.48	11.75	16.32	19.49	10.86
1300	1.47	8.46	11.43	15.97	18.84	10.54
1400	1.58	8.43	10.79	15.12	17.79	9.98
1500	1.70	8.39	10.17	14.47	16.95	9.49
1600	1.85	8.35	9.62	13.66	15.56	9.03
1700	2.02	8.31	9.10	13.08	14.84	8.64
1800	2.20	8.26	8.61	12.45	13.96	8.27
1900	2.43	8.20	8.14	11.82	13.00	8.00
2000	2.67	8.15	7.68	11.28	12.35	7.74
2100	2.94	8.10	7.27	10.69	11.50	7.53
2200	3.22	8.04	6.87	10.35	11.31	7.37
2300	3.58	7.96	6.59	9.92	10.39	7.20
2400	3.95	7.90	6.29	9.55	9.95	7.06
2500	4.37	7.86	6.03	9.07	9.42	7.01
2600	4.82	7.79	5.90	8.92	8.94	6.93
2700	5.29	7.74	5.80	8.67	8.59	6.90
2800	5.83	7.71	5.81	8.51	8.01	6.86
2900	6.36	7.68	5.88	8.63	7.67	6.85
3000	6.89	7.65	5.98	8.89	7.42	6.99
3100	7.50	7.63	6.11	9.30	7.00	7.25
3200	8.06	7.69	6.23	9.88	6.86	7.48
3300	8.66	7.79	6.35	10.77	6.60	7.81
3400	9.31	7.95	6.45	11.98	6.36	8.23
3500	9.97	8.16	6.50	13.84	6.12	8.87

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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	1.18	8.87	20.94	18.95	33.18	19.16
10	1.18	8.87	20.98	19.15	35.50	19.35
15	1.17	8.87	21.01	19.31	37.31	19.50
20	1.17	8.87	21.00	19.39	37.63	19.54
25	1.17	8.88	20.99	19.47	37.84	19.57
50	1.19	8.90	20.88	19.75	38.08	19.58
100	1.20	8.93	20.53	19.84	37.34	19.81
150	1.21	8.95	20.21	19.85	34.88	20.02
200	1.22	8.96	19.91	20.07	34.72	19.83
250	1.22	8.96	19.60	20.13	33.69	19.69
300	1.23	8.96	19.25	20.17	32.58	19.44
350	1.24	8.97	18.83	20.16	32.03	19.04
400	1.25	8.96	18.36	20.17	31.20	18.65
450	1.26	8.96	17.90	20.08	30.38	18.21
500	1.28	8.95	17.46	20.02	29.51	17.71
550	1.30	8.95	17.01	19.88	28.59	17.21
600	1.31	8.94	16.56	19.79	27.93	16.69
650	1.33	8.94	16.12	19.67	27.15	16.16
700	1.35	8.94	15.70	19.47	26.26	15.65
750	1.38	8.93	15.31	19.30	25.67	15.15
800	1.40	8.93	14.90	19.11	25.00	14.65
850	1.43	8.93	14.51	18.88	24.27	14.17
900	1.47	8.92	14.13	18.58	23.54	13.72
950	1.50	8.92	13.75	18.30	22.81	13.29
1000	1.54	8.91	13.42	18.02	22.33	12.88
1050	1.57	8.91	13.05	17.76	21.76	12.50
1100	1.62	8.91	12.70	17.45	21.14	12.15
1150	1.67	8.90	12.35	17.14	20.66	11.81
1200	1.72	8.89	12.02	16.85	20.08	11.49
1250	1.77	8.88	11.67	16.52	19.50	11.19
1300	1.83	8.88	11.34	16.21	19.03	10.92
1400	1.96	8.85	10.71	15.70	18.09	10.40
1500	2.10	8.83	10.08	15.05	17.06	9.97
1600	2.26	8.80	9.49	14.56	16.24	9.56
1700	2.44	8.78	8.96	13.99	15.24	9.20
1800	2.63	8.75	8.43	13.51	14.62	8.94
1900	2.85	8.70	7.95	13.09	13.93	8.76
2000	3.08	8.66	7.49	12.64	13.24	8.56
2100	3.33	8.62	7.08	12.27	12.64	8.38
2200	3.62	8.57	6.73	11.83	11.89	8.24
2300	3.91	8.54	6.38	11.44	11.48	8.14
2400	4.23	8.49	6.14	11.18	10.95	8.05
2500	4.59	8.44	5.94	10.94	10.44	7.96
2600	4.97	8.40	5.75	10.62	9.94	7.91
2700	5.36	8.35	5.67	10.45	9.55	7.88
2800	5.77	8.30	5.60	10.38	9.21	7.89
2900	6.22	8.25	5.52	10.32	8.88	7.96
3000	6.70	8.21	5.52	10.24	8.50	8.01
3100	7.20	8.18	5.55	10.35	8.21	8.05
3200	7.73	8.14	5.65	10.65	7.85	8.24
3300	8.29	8.10	5.76	11.21	7.52	8.53
3400	8.91	8.08	5.84	12.07	7.24	8.87
3500	9.54	8.09	5.85	13.23	7.01	9.41

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