

Directional Coupler

DBTC-13-4+

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	0.62	12.81	21.19	23.19	32.45	25.47
10	0.62	12.82	21.20	23.43	33.98	25.72
15	0.61	12.82	21.22	23.66	35.51	25.97
20	0.61	12.82	21.22	23.80	36.34	26.11
25	0.62	12.83	21.21	23.83	36.50	26.13
50	0.64	12.85	21.15	23.98	36.99	26.25
100	0.65	12.88	20.98	24.25	37.50	26.46
150	0.66	12.90	20.75	24.47	37.79	26.56
200	0.67	12.91	20.46	24.61	38.06	26.52
250	0.68	12.92	20.16	24.76	38.20	26.33
300	0.68	12.92	19.77	24.92	38.38	26.01
350	0.69	12.92	19.37	25.08	38.47	25.59
400	0.70	12.91	18.94	25.30	38.94	25.11
450	0.71	12.91	18.50	25.51	38.91	24.57
500	0.73	12.90	18.09	25.80	38.51	23.99
550	0.74	12.89	17.62	26.13	38.60	23.39
600	0.76	12.88	17.14	26.52	38.97	22.78
650	0.78	12.86	16.71	26.87	38.56	22.17
700	0.80	12.84	16.30	27.24	38.06	21.56
750	0.82	12.83	15.89	27.70	38.08	20.95
800	0.84	12.81	15.50	28.37	38.14	20.36
850	0.87	12.79	15.13	28.85	37.52	19.77
900	0.90	12.77	14.81	29.28	36.93	19.21
950	0.93	12.75	14.50	30.12	36.75	18.66
1000	0.96	12.73	14.24	30.79	36.75	18.13
1050	1.00	12.70	13.98	31.30	36.13	17.61
1100	1.03	12.68	13.74	31.66	35.34	17.11
1150	1.08	12.66	13.56	31.92	35.09	16.64
1200	1.13	12.64	13.39	32.24	34.88	16.18
1250	1.17	12.63	13.21	31.85	34.03	15.74
1300	1.22	12.61	13.09	31.08	33.13	15.33
1400	1.34	12.58	12.93	29.82	32.73	14.58
1500	1.48	12.57	12.82	27.70	31.25	13.88
1600	1.64	12.58	12.81	26.23	31.11	13.31
1700	1.82	12.62	12.85	24.50	30.12	12.77
1800	2.02	12.70	12.91	23.23	30.07	12.35
1900	2.24	12.81	12.89	22.02	29.52	12.00
2000	2.49	12.98	12.68	21.09	29.45	11.73
2100	2.75	13.20	12.19	20.23	28.92	11.53
2200	3.02	13.48	11.33	19.59	28.08	11.39
2300	3.30	13.84	10.18	19.09	27.06	11.27
2400	3.57	14.28	8.81	18.76	25.65	11.21
2500	3.82	14.79	7.35	18.53	24.53	11.13
2600	4.04	15.38	5.85	18.45	23.28	11.06
2700	4.25	16.05	4.41	18.39	22.41	10.95
2800	4.42	16.81	3.00	18.51	21.57	10.82
2900	4.56	17.66	1.62	18.65	20.97	10.63
3000	4.68	18.59	0.27	18.79	20.41	10.43
3250	4.93	21.31	3.00	19.13	19.77	9.75
3500	5.18	24.16	5.92	19.03	19.57	8.99
4000	5.92	25.16	6.14	17.87	21.18	7.56
4500	7.30	21.65	1.39	15.13	21.20	6.47
5000	9.54	18.85	1.53	12.05	16.28	5.86

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Directional Coupler

DBTC-13-4+

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	0.76	12.95	20.94	20.15	23.87	21.92
10	0.68	12.88	20.89	21.72	27.70	23.66
15	0.59	12.81	20.84	23.29	31.52	25.39
20	0.55	12.77	20.81	24.16	34.35	26.42
25	0.55	12.77	20.80	24.33	36.19	26.73
50	0.55	12.77	20.79	24.67	40.89	27.69
100	0.55	12.79	20.75	25.45	39.74	27.65
150	0.56	12.79	20.62	25.85	41.06	27.35
200	0.57	12.80	20.38	25.57	39.13	27.54
250	0.58	12.79	20.08	25.72	37.80	26.95
300	0.59	12.79	19.71	25.57	37.30	26.60
350	0.60	12.78	19.32	25.65	36.69	26.15
400	0.61	12.77	18.95	25.82	37.03	25.52
450	0.62	12.75	18.58	25.85	35.96	25.04
500	0.63	12.73	18.23	26.14	35.17	24.38
550	0.63	12.72	17.81	26.32	34.70	23.80
600	0.65	12.70	17.35	26.64	34.79	23.15
650	0.66	12.67	16.94	26.75	34.29	22.52
700	0.68	12.65	16.53	26.85	33.51	22.01
750	0.70	12.62	16.16	27.23	33.50	21.40
800	0.72	12.59	15.79	27.84	33.70	20.86
850	0.74	12.55	15.44	28.16	33.30	20.26
900	0.77	12.52	15.11	28.27	32.57	19.65
950	0.79	12.49	14.80	28.94	32.61	19.09
1000	0.82	12.46	14.51	29.62	33.05	18.50
1050	0.85	12.42	14.24	30.10	32.68	17.95
1100	0.88	12.38	14.02	31.02	33.07	17.45
1150	0.92	12.35	13.85	32.32	34.15	16.98
1200	0.96	12.31	13.68	33.19	34.01	16.52
1250	1.00	12.28	13.51	33.12	33.15	16.06
1300	1.05	12.26	13.38	33.10	32.64	15.60
1400	1.16	12.19	13.20	33.71	34.52	14.85
1500	1.30	12.15	13.10	30.74	32.06	14.13
1600	1.45	12.12	13.13	29.03	33.19	13.54
1700	1.64	12.11	13.28	26.70	33.70	13.03
1800	1.86	12.15	13.51	24.84	33.82	12.56
1900	2.10	12.23	13.71	22.94	31.96	12.17
2000	2.38	12.37	13.65	22.21	32.93	11.83
2100	2.68	12.56	13.13	21.12	30.70	11.76
2200	3.00	12.83	12.01	20.46	28.56	11.64
2300	3.32	13.20	10.48	19.85	24.86	11.61
2400	3.63	13.64	8.79	19.37	24.62	11.55
2500	3.89	14.18	7.04	19.25	22.12	11.61
2600	4.11	14.78	5.32	19.29	20.76	11.62
2700	4.29	15.48	3.75	19.28	19.89	11.52
2800	4.42	16.31	2.25	19.54	19.34	11.42
2900	4.49	17.21	0.87	19.95	19.01	11.08
3000	4.54	18.17	0.44	20.50	18.62	10.77
3250	4.60	20.97	3.49	21.81	17.94	9.89
3500	4.71	23.52	5.61	21.55	18.04	8.82
4000	5.36	22.76	3.01	19.14	18.76	7.24
4500	6.90	19.66	2.06	14.87	19.20	5.92
5000	9.29	17.22	2.92	11.41	16.84	5.47

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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	0.78	12.98	21.91	21.41	28.30	24.11
10	0.77	12.98	21.89	21.65	28.98	24.36
15	0.77	12.98	21.88	21.90	29.66	24.61
20	0.77	12.98	21.85	22.06	29.99	24.74
25	0.78	12.99	21.83	22.14	29.99	24.73
50	0.79	13.01	21.69	22.46	29.96	24.65
100	0.80	13.05	21.33	22.55	31.14	25.04
150	0.81	13.07	20.95	22.63	32.05	25.59
200	0.82	13.10	20.57	23.00	32.34	25.49
250	0.82	13.11	20.17	23.16	33.56	25.60
300	0.83	13.13	19.73	23.40	34.19	25.59
350	0.84	13.15	19.26	23.73	34.63	25.27
400	0.85	13.16	18.76	24.06	35.62	24.98
450	0.86	13.17	18.25	24.40	36.40	24.62
500	0.87	13.19	17.76	24.80	37.36	24.10
550	0.89	13.20	17.23	25.19	38.45	23.60
600	0.90	13.21	16.70	25.71	40.17	23.07
650	0.92	13.22	16.24	26.17	42.16	22.44
700	0.94	13.22	15.80	26.69	43.84	21.81
750	0.96	13.22	15.36	27.26	46.56	21.17
800	0.99	13.23	14.95	27.97	50.50	20.54
850	1.02	13.22	14.57	28.48	47.75	19.91
900	1.04	13.22	14.24	28.84	43.84	19.30
950	1.08	13.22	13.91	29.52	41.67	18.73
1000	1.11	13.22	13.65	30.10	40.46	18.18
1050	1.15	13.21	13.37	30.63	38.93	17.66
1100	1.19	13.21	13.12	30.88	37.14	17.15
1150	1.23	13.21	12.89	30.91	36.25	16.66
1200	1.27	13.21	12.69	31.14	35.43	16.21
1250	1.32	13.21	12.47	30.75	33.94	15.77
1300	1.37	13.21	12.28	30.04	32.75	15.36
1400	1.48	13.23	11.93	28.92	31.50	14.65
1500	1.60	13.25	11.61	27.18	29.78	13.94
1600	1.74	13.30	11.34	26.09	29.07	13.35
1700	1.89	13.38	11.08	24.55	27.45	12.76
1800	2.05	13.48	10.84	23.76	27.22	12.30
1900	2.23	13.61	10.54	22.80	26.64	11.94
2000	2.42	13.77	10.19	21.81	25.93	11.64
2100	2.62	13.98	9.82	20.97	25.77	11.30
2200	2.83	14.23	9.40	20.16	25.07	11.05
2300	3.05	14.52	8.89	19.66	25.06	10.82
2400	3.28	14.85	8.25	19.16	24.72	10.66
2500	3.51	15.24	7.55	18.66	24.68	10.46
2600	3.74	15.67	6.75	18.26	24.55	10.31
2700	3.97	16.14	5.89	18.03	24.87	10.16
2800	4.20	16.65	4.90	17.89	24.53	10.02
2900	4.42	17.20	3.87	17.68	24.62	9.93
3000	4.65	17.84	2.77	17.39	25.04	9.80
3250	5.18	19.61	0.10	17.05	26.04	9.41
3500	5.68	21.64	3.06	16.80	26.70	9.01
4000	6.63	25.26	7.87	16.17	32.67	7.97
4500	7.67	23.29	6.08	14.90	24.37	6.96
5000	9.19	19.48	1.52	12.55	16.80	5.97

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