

Directional Coupler

DBTC-12-4-75LX+

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	1.10	11.96	19.55	18.30	23.54	20.93
10.0	1.08	11.96	19.61	18.69	24.71	21.26
25.0	1.07	11.97	19.59	19.10	25.91	21.53
50.0	1.08	12.00	19.51	19.26	25.98	21.46
75.0	1.09	12.01	19.52	19.35	25.99	21.26
100.0	1.09	12.03	19.52	19.35	25.85	20.89
150.0	1.10	12.05	19.43	19.29	25.14	19.79
200.0	1.10	12.07	19.34	19.20	24.16	18.72
250.0	1.11	12.09	19.29	18.88	23.06	17.57
300.0	1.12	12.10	19.20	18.61	22.03	16.51
350.0	1.12	12.13	19.05	18.32	21.10	15.59
400.0	1.14	12.15	18.96	18.03	20.29	14.74
425.0	1.13	12.16	18.82	17.94	19.93	14.37
450.0	1.15	12.18	18.85	17.84	19.63	14.04
475.0	1.15	12.18	18.81	17.78	19.35	13.73
500.0	1.16	12.20	18.65	17.70	19.08	13.43
525.0	1.16	12.20	18.82	17.66	18.86	13.14
550.0	1.18	12.22	18.56	17.64	18.67	12.87
575.0	1.18	12.24	18.71	17.64	18.51	12.64
600.0	1.19	12.25	18.51	17.67	18.36	12.41
650.0	1.21	12.27	18.44	17.78	18.18	12.03
700.0	1.22	12.29	18.43	17.99	18.08	11.70
750.0	1.23	12.30	18.46	18.29	18.10	11.43
800.0	1.24	12.32	18.51	18.74	18.21	11.22
850.0	1.25	12.32	18.81	19.22	18.42	11.03
900.0	1.26	12.33	18.77	19.83	18.74	10.89
950.0	1.27	12.34	18.29	20.52	19.11	10.74
975.0	1.27	12.34	18.10	20.85	19.32	10.66
1000.0	1.27	12.35	17.68	21.24	19.55	10.60
1050.0	1.27	12.36	16.99	22.02	20.05	10.49
1100.0	1.29	12.39	16.32	22.83	20.55	10.40
1150.0	1.29	12.38	15.53	23.40	21.23	10.20
1200.0	1.30	12.41	14.39	24.00	21.92	10.05

Directional Coupler

DBTC-12-4-75LX+

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	OUT	CPL
5.0	1.34	12.08	18.54	15.71	18.32	17.89
10.0	1.16	11.94	18.46	17.62	21.65	19.79
25.0	0.97	11.81	18.46	20.26	26.87	22.34
50.0	0.94	11.82	18.62	21.72	29.17	23.73
75.0	0.94	11.83	18.62	21.80	29.82	23.71
100.0	0.94	11.84	18.57	20.90	29.82	22.35
150.0	0.95	11.85	18.60	20.63	28.56	20.43
200.0	0.96	11.86	18.56	20.71	27.05	19.76
250.0	0.97	11.88	18.55	19.39	25.02	17.76
300.0	0.97	11.89	18.53	19.19	23.13	16.75
350.0	0.99	11.91	18.45	18.32	21.53	15.58
400.0	1.00	11.93	18.43	17.83	20.30	14.58
425.0	1.00	11.94	18.29	17.66	19.82	14.20
450.0	1.01	11.95	18.36	17.36	19.41	13.76
475.0	1.01	11.95	18.35	17.12	19.06	13.34
500.0	1.03	11.97	18.22	16.99	18.71	13.02
525.0	1.03	11.97	18.40	16.93	18.43	12.79
550.0	1.04	11.98	18.21	16.81	18.16	12.51
575.0	1.04	11.99	18.37	16.69	17.91	12.20
600.0	1.06	12.00	18.19	16.70	17.67	11.93
650.0	1.07	12.02	18.24	16.99	17.34	11.66
700.0	1.08	12.03	18.29	17.17	17.15	11.35
750.0	1.09	12.03	18.38	17.86	17.20	11.22
800.0	1.10	12.03	18.47	18.58	17.45	11.17
850.0	1.10	12.03	18.83	19.44	17.85	11.16
900.0	1.11	12.02	18.81	21.03	18.44	11.29
950.0	1.12	12.02	18.29	22.65	19.12	11.28
975.0	1.11	12.02	18.00	23.37	19.47	11.24
1000.0	1.11	12.01	17.60	24.25	19.91	11.23
1050.0	1.10	12.02	16.72	26.43	20.94	11.25
1100.0	1.11	12.03	15.93	27.01	22.11	11.26
1150.0	1.11	12.00	15.08	25.31	23.50	10.87
1200.0	1.11	12.02	13.89	23.87	24.85	10.48

Directional Coupler

DBTC-12-4-75LX+

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	(dB) OUT	CPL
5.0	1.29	12.13	20.08	17.11	21.28	20.15
10.0	1.27	12.12	20.03	17.47	22.30	20.49
25.0	1.26	12.12	19.99	17.65	23.29	20.53
50.0	1.27	12.14	19.89	17.31	23.38	19.83
75.0	1.28	12.17	19.85	17.38	23.27	19.53
100.0	1.28	12.19	19.87	17.88	23.05	19.67
150.0	1.29	12.21	19.74	18.21	22.66	19.52
200.0	1.29	12.24	19.56	17.91	22.17	18.12
250.0	1.30	12.27	19.47	18.37	21.60	17.47
300.0	1.30	12.31	19.29	18.22	21.14	16.69
350.0	1.31	12.34	19.11	18.18	20.69	15.80
400.0	1.32	12.38	18.98	18.33	20.30	15.16
425.0	1.31	12.40	18.76	18.30	20.12	14.85
450.0	1.33	12.42	18.74	18.22	19.96	14.57
475.0	1.32	12.43	18.70	18.27	19.84	14.29
500.0	1.34	12.46	18.50	18.31	19.66	14.01
525.0	1.34	12.47	18.63	18.38	19.56	13.73
550.0	1.35	12.50	18.35	18.41	19.45	13.45
575.0	1.35	12.52	18.46	18.43	19.35	13.20
600.0	1.36	12.54	18.23	18.46	19.24	12.95
650.0	1.38	12.59	18.13	18.55	19.09	12.53
700.0	1.39	12.64	18.09	18.63	18.95	12.12
750.0	1.40	12.67	18.06	18.73	18.87	11.71
800.0	1.41	12.71	18.14	18.90	18.81	11.33
850.0	1.42	12.73	18.38	19.07	18.77	10.98
900.0	1.44	12.76	18.39	19.31	18.82	10.71
950.0	1.45	12.79	17.96	19.65	18.92	10.45
975.0	1.45	12.80	17.89	19.80	18.94	10.33
1000.0	1.45	12.82	17.51	19.93	19.05	10.23
1050.0	1.46	12.85	17.00	20.37	19.25	10.05
1100.0	1.48	12.89	16.48	21.10	19.48	9.96
1150.0	1.49	12.90	15.74	21.69	19.89	9.84
1200.0	1.50	12.95	14.64	22.74	20.42	9.81