

# Directional Coupler

# DBTC-9-4-75L+

## 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	1.30	8.95	20.44	17.94	28.64	18.10
10	1.26	8.94	20.62	18.37	35.38	18.51
25	1.26	8.95	20.64	18.54	46.76	18.61
50	1.28	8.97	20.57	18.48	36.81	18.39
75	1.29	8.99	20.47	18.42	32.32	18.12
100	1.30	9.01	20.42	18.32	29.43	17.80
150	1.32	9.03	20.27	17.82	25.51	16.90
200	1.34	9.06	20.04	17.16	22.82	15.74
250	1.36	9.09	19.77	16.49	20.81	14.72
300	1.38	9.12	19.56	15.72	19.33	13.75
350	1.41	9.16	19.31	15.09	18.11	12.90
400	1.44	9.20	19.08	14.50	17.15	12.12
425	1.45	9.22	18.95	14.23	16.72	11.76
450	1.47	9.24	18.79	13.99	16.35	11.46
475	1.48	9.25	18.86	13.79	16.04	11.18
500	1.50	9.29	18.55	13.57	15.70	10.93
525	1.51	9.29	18.80	13.38	15.43	10.68
550	1.54	9.33	18.47	13.21	15.17	10.44
600	1.57	9.36	18.48	12.96	14.75	10.01
650	1.61	9.40	18.42	12.76	14.41	9.68
700	1.64	9.42	18.51	12.62	14.13	9.42
750	1.67	9.43	18.89	12.55	13.93	9.16
800	1.69	9.43	19.38	12.53	13.77	8.90
850	1.71	9.43	19.87	12.51	13.67	8.70
900	1.73	9.42	20.41	12.56	13.61	8.56
950	1.75	9.41	20.68	12.63	13.56	8.40
975	1.75	9.38	21.49	12.64	13.55	8.30
1000	1.75	9.40	21.09	12.59	13.50	8.22
1025	1.75	9.38	21.42	12.65	13.52	8.15
1050	1.75	9.36	21.51	12.66	13.46	8.08
1075	1.74	9.39	21.04	12.73	13.48	8.02
1100	1.75	9.36	21.31	12.75	13.42	7.97
1150	1.74	9.33	20.54	12.72	13.39	7.81
1200	1.75	9.35	19.02	12.75	13.34	7.67
1250	1.74	9.39	17.34	12.73	13.25	7.48
1300	1.77	9.42	16.09	12.67	13.15	7.34
1350	1.81	9.47	14.76	12.53	12.94	7.19
1400	1.84	9.52	13.63	12.41	12.74	6.99
1450	1.90	9.56	12.97	12.21	12.48	6.81
1500	2.01	9.60	12.66	11.98	12.17	6.64
1550	2.14	9.70	12.25	11.70	11.80	6.47
1600	2.32	9.78	11.88	11.41	11.38	6.34
1650	2.50	9.84	11.69	11.06	10.90	6.20
1700	2.71	9.86	11.84	10.76	10.46	6.02
1750	2.98	9.85	12.40	10.46	9.99	5.92
1800	3.24	9.83	12.79	10.16	9.54	5.83
1900	3.58	9.76	13.17	9.63	8.63	5.66
2000	3.71	9.56	13.58	9.27	7.80	5.57
2100	3.77	9.53	12.24	8.95	7.03	5.58
2200	3.63	9.50	10.26	8.66	6.32	5.71
2300	3.56	9.68	8.24	8.58	5.78	5.90
2400	3.75	9.79	7.08	8.73	5.49	6.12
2500	4.74	9.90	6.91	9.01	5.30	6.29

REV. X1  
DBTC-9-4-75L+  
081130  
Page 1 of 3



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# Directional Coupler

# DBTC-9-4-75L+

## 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	1.30	8.92	19.87	17.13	22.27	17.09
10	1.15	8.84	20.43	18.86	27.45	18.75
25	1.09	8.80	20.74	20.24	35.23	20.01
50	1.10	8.81	20.72	21.11	33.35	20.63
75	1.11	8.83	20.64	20.97	30.04	20.36
100	1.12	8.84	20.57	19.98	27.66	19.26
150	1.14	8.86	20.47	18.98	24.89	17.67
200	1.15	8.89	20.29	18.49	23.30	16.71
250	1.18	8.92	20.05	16.92	21.66	14.93
300	1.20	8.95	19.90	16.19	20.09	14.00
350	1.22	8.99	19.68	15.08	18.51	12.85
400	1.25	9.03	19.49	14.29	17.20	11.94
425	1.26	9.04	19.39	13.97	16.66	11.57
450	1.28	9.07	19.27	13.59	16.16	11.17
475	1.29	9.08	19.34	13.24	15.75	10.80
500	1.32	9.11	19.02	12.99	15.34	10.51
525	1.32	9.11	19.36	12.80	15.01	10.29
550	1.35	9.15	19.03	12.56	14.72	10.02
600	1.38	9.18	19.10	12.24	14.18	9.54
650	1.41	9.21	19.14	12.17	13.74	9.30
700	1.44	9.23	19.34	12.05	13.38	9.05
750	1.46	9.22	19.91	12.25	13.16	8.95
800	1.47	9.21	20.60	12.42	13.08	8.82
850	1.48	9.19	21.43	12.65	13.14	8.79
900	1.49	9.16	22.30	13.13	13.29	8.82
950	1.50	9.14	22.85	13.49	13.45	8.76
975	1.48	9.10	23.73	13.56	13.55	8.68
1000	1.48	9.10	23.54	13.63	13.63	8.63
1025	1.47	9.08	23.94	13.83	13.79	8.57
1050	1.47	9.06	23.71	13.96	13.85	8.51
1075	1.45	9.07	23.07	14.12	13.98	8.46
1100	1.45	9.02	22.99	14.00	14.09	8.38
1150	1.43	8.98	21.39	13.48	14.27	8.02
1200	1.41	8.99	19.38	13.01	14.38	7.62
1250	1.40	9.02	17.41	12.39	14.33	7.13
1300	1.41	9.06	15.99	11.75	14.15	6.72
1350	1.43	9.12	14.55	11.03	13.77	6.32
1400	1.45	9.18	13.36	10.47	13.30	5.88
1450	1.50	9.24	12.64	10.02	12.76	5.59
1500	1.59	9.28	12.35	9.65	12.14	5.44
1550	1.71	9.39	12.07	9.38	11.51	5.31
1600	1.88	9.51	11.81	9.36	10.86	5.29
1650	2.08	9.58	11.70	9.40	10.22	5.36
1700	2.29	9.60	11.94	9.58	9.67	5.49
1750	2.59	9.59	12.70	10.13	9.19	5.75
1800	2.87	9.57	13.30	10.25	8.80	6.06
1900	3.19	9.45	13.91	11.26	8.14	6.43
2000	3.29	9.19	14.17	11.40	7.68	6.51
2100	3.28	9.06	12.36	10.45	7.24	6.07
2200	3.11	9.03	9.86	8.27	6.68	5.15
2300	3.00	9.20	7.68	6.57	6.13	4.30
2400	3.13	9.33	6.38	5.54	5.64	3.70
2500	4.14	9.50	6.33	5.34	5.10	3.45

REV. X1  
DBTC-9-4-75L+  
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Page 2 of 3



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# Directional Coupler

# DBTC-9-4-75L+

## 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	1.48	9.04	19.99	17.11	27.20	17.42
10	1.46	9.04	20.11	17.39	30.51	17.68
25	1.46	9.05	20.11	17.27	32.52	17.53
50	1.48	9.08	19.97	16.78	31.64	16.92
75	1.49	9.10	19.93	16.74	29.84	16.65
100	1.50	9.12	19.93	17.12	28.06	16.80
150	1.52	9.14	19.78	17.09	24.94	16.50
200	1.53	9.17	19.51	16.32	22.42	15.22
250	1.55	9.20	19.29	16.31	20.56	14.69
300	1.57	9.23	19.04	15.67	19.23	13.91
350	1.59	9.27	18.78	15.18	18.19	13.09
400	1.62	9.30	18.51	14.87	17.44	12.53
425	1.63	9.32	18.40	14.63	17.13	12.21
450	1.65	9.35	18.21	14.42	16.84	11.90
475	1.66	9.36	18.22	14.26	16.62	11.63
500	1.68	9.39	17.91	14.12	16.36	11.42
525	1.69	9.40	18.12	14.01	16.17	11.22
550	1.72	9.44	17.77	13.82	15.96	10.97
600	1.75	9.48	17.72	13.55	15.60	10.50
650	1.79	9.52	17.62	13.34	15.25	10.13
700	1.81	9.55	17.66	13.12	14.93	9.82
750	1.84	9.57	17.91	12.93	14.64	9.46
800	1.87	9.59	18.26	12.80	14.38	9.08
850	1.89	9.59	18.64	12.65	14.15	8.80
900	1.92	9.60	18.96	12.61	13.96	8.59
950	1.94	9.61	19.15	12.59	13.77	8.38
975	1.94	9.59	19.70	12.53	13.66	8.25
1000	1.95	9.62	19.43	12.45	13.56	8.16
1025	1.96	9.61	19.65	12.48	13.52	8.07
1050	1.95	9.59	19.83	12.50	13.39	8.00
1075	1.95	9.63	19.46	12.65	13.37	7.96
1100	1.97	9.59	19.87	12.68	13.28	7.93
1150	1.97	9.59	19.27	12.76	13.18	7.84
1200	1.98	9.61	18.16	13.02	13.10	7.80
1250	1.99	9.65	16.77	13.27	13.03	7.72
1300	2.02	9.69	15.64	13.43	13.00	7.69
1350	2.07	9.73	14.50	13.57	12.95	7.67
1400	2.12	9.78	13.45	13.69	12.88	7.52
1450	2.20	9.82	12.83	13.65	12.81	7.37
1500	2.31	9.87	12.50	13.44	12.63	7.20
1550	2.45	9.95	12.07	13.11	12.42	6.97
1600	2.62	10.04	11.68	12.65	12.08	6.77
1650	2.81	10.09	11.49	12.04	11.65	6.53
1700	3.01	10.12	11.56	11.44	11.17	6.19
1750	3.26	10.12	12.05	10.86	10.66	5.98
1800	3.51	10.11	12.39	10.35	10.12	5.77
1900	3.84	10.08	12.71	9.43	8.92	5.42
2000	3.94	9.93	13.18	8.99	7.90	5.28
2100	3.98	9.93	12.07	8.83	7.05	5.38
2200	3.87	9.90	10.43	8.93	6.36	5.76
2300	3.81	10.08	8.52	9.35	5.92	6.22
2400	4.01	10.20	7.41	10.16	5.80	6.68
2500	4.96	10.29	7.17	10.77	5.74	6.96

REV. X1  
DBTC-9-4-75L+  
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Page 3 of 3



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