

Bi-Directional Coupler

BDCH-15-272+

Typical Performance Data

Test Conditions: Input Power = +5 dbm, Temperature = -55°C, Configuration A.

Freq. (MHz)	I. Loss (dB) In - Out	Coupling (dB)		Directivity (dB) In - Fwd	Return Loss (dB)			
		In - Fwd	Out - Rev		In	Out	Fwd	Rev
50	-0.06	-35.65	-35.67	30.68	-45.67	-44.38	-41.37	-44.75
100	-0.07	-29.69	-29.69	27.53	-34.65	-34.23	-34.57	-34.99
150	-0.08	-26.23	-26.24	25.41	-27.92	-27.71	-28.40	-28.76
250	-0.10	-22.03	-22.03	22.80	-22.60	-22.64	-23.61	-23.72
300	-0.11	-20.58	-20.58	22.34	-22.26	-22.25	-23.22	-23.28
350	-0.11	-19.39	-19.39	22.34	-22.73	-22.57	-23.39	-23.43
400	-0.11	-18.40	-18.40	22.35	-23.39	-23.19	-23.73	-23.88
450	-0.11	-17.57	-17.56	22.22	-23.95	-23.85	-24.25	-24.30
500	-0.11	-16.87	-16.86	22.30	-24.78	-24.89	-24.90	-25.16
550	-0.11	-16.28	-16.26	22.29	-25.57	-25.95	-25.74	-26.01
600	-0.11	-15.78	-15.76	22.29	-26.59	-27.01	-26.29	-26.85
650	-0.11	-15.40	-15.38	22.14	-27.89	-27.97	-26.60	-27.32
700	-0.11	-15.02	-14.99	21.99	-29.19	-28.92	-26.90	-27.79
750	-0.11	-14.74	-14.70	21.75	-30.99	-31.45	-27.75	-28.30
800	-0.11	-14.52	-14.46	21.57	-33.19	-35.89	-28.02	-29.33
850	-0.12	-14.35	-14.31	21.30	-36.29	-42.78	-29.85	-30.74
900	-0.13	-14.23	-14.19	21.03	-37.52	-57.34	-30.61	-33.19
950	-0.13	-14.16	-14.11	20.89	-36.51	-43.80	-34.06	-36.92
1000	-0.14	-14.12	-14.07	20.55	-34.83	-38.94	-34.07	-45.84
1100	-0.14	-14.15	-14.09	20.01	-30.74	-31.89	-32.93	-35.79
1200	-0.15	-14.29	-14.24	19.88	-26.99	-27.09	-28.70	-28.74
1300	-0.17	-14.47	-14.43	19.79	-24.86	-25.00	-25.73	-25.46
1400	-0.18	-14.69	-14.62	20.42	-24.29	-24.14	-24.12	-23.74
1500	-0.19	-14.85	-14.76	21.02	-23.91	-23.43	-23.80	-23.08
1600	-0.18	-14.92	-14.80	21.67	-24.37	-23.41	-24.22	-23.21
1700	-0.18	-14.88	-14.76	21.73	-25.27	-23.69	-25.34	-23.70
1800	-0.19	-14.76	-14.62	21.86	-27.34	-24.76	-27.50	-24.83
1900	-0.19	-14.56	-14.42	21.37	-29.68	-25.53	-30.23	-26.30
2000	-0.19	-14.38	-14.24	20.62	-30.05	-25.24	-33.61	-28.09
2050	-0.20	-14.29	-14.14	20.39	-29.20	-24.76	-35.68	-29.09
2150	-0.21	-14.17	-14.05	19.73	-27.16	-24.21	-41.40	-31.69
2200	-0.22	-14.15	-14.04	19.72	-25.95	-23.91	-42.19	-32.66
2250	-0.23	-14.15	-14.06	19.52	-25.30	-23.63	-41.93	-32.76
2300	-0.23	-14.20	-14.10	19.46	-24.57	-23.25	-39.30	-33.36
2400	-0.23	-14.40	-14.31	19.04	-24.11	-23.23	-37.75	-35.49
2500	-0.23	-14.78	-14.70	18.51	-24.32	-23.84	-36.42	-38.09
2600	-0.25	-15.37	-15.36	18.11	-25.72	-26.41	-33.80	-38.69
2700	-0.25	-16.26	-16.19	17.52	-28.35	-29.90	-33.04	-39.60
2800	-0.26	-17.48	-17.41	16.07	-31.67	-32.09	-34.27	-45.90
2900	-0.27	-19.20	-19.07	13.95	-32.94	-31.31	-36.13	-42.82
3000	-0.29	-21.73	-21.57	11.09	-32.74	-30.31	-34.35	-34.64

Bi-Directional Coupler

BDCH-15-272+

Typical Performance Data

Test Conditions: Input Power = +5 dbm, Temperature = -55°C, Configuration B.

Freq. (MHz)	I. Loss (dB) In - Out	Coupling (dB)		Directivity (dB) In - Fwd	Return Loss (dB)			
		In - Fwd	Out - Rev		In	Out	Fwd	Rev
50	-0.05	-35.67	-35.65	30.69	-44.38	-45.67	-44.75	-41.37
100	-0.07	-29.69	-29.69	28.12	-34.23	-34.65	-34.99	-34.57
150	-0.07	-26.24	-26.23	25.99	-27.71	-27.92	-28.76	-28.40
250	-0.10	-22.03	-22.03	23.70	-22.64	-22.60	-23.72	-23.61
300	-0.11	-20.58	-20.58	23.27	-22.25	-22.26	-23.28	-23.22
350	-0.10	-19.39	-19.39	23.22	-22.57	-22.73	-23.43	-23.39
400	-0.10	-18.40	-18.40	23.35	-23.19	-23.39	-23.88	-23.73
450	-0.10	-17.56	-17.57	23.32	-23.85	-23.95	-24.30	-24.25
500	-0.10	-16.86	-16.87	23.45	-24.89	-24.78	-25.16	-24.90
550	-0.11	-16.26	-16.28	23.51	-25.95	-25.57	-26.01	-25.74
600	-0.11	-15.76	-15.78	23.71	-27.01	-26.59	-26.85	-26.29
650	-0.11	-15.38	-15.40	23.48	-27.97	-27.89	-27.32	-26.60
700	-0.11	-14.99	-15.02	23.24	-28.92	-29.19	-27.79	-26.90
750	-0.11	-14.70	-14.74	23.01	-31.45	-30.99	-28.30	-27.75
800	-0.10	-14.46	-14.52	22.77	-35.89	-33.19	-29.33	-28.02
850	-0.11	-14.31	-14.35	22.63	-42.78	-36.29	-30.74	-29.85
900	-0.12	-14.19	-14.23	22.19	-57.34	-37.52	-33.19	-30.61
950	-0.13	-14.11	-14.16	21.90	-43.80	-36.51	-36.92	-34.06
1000	-0.13	-14.07	-14.12	21.29	-38.94	-34.83	-45.84	-34.07
1100	-0.14	-14.09	-14.15	20.75	-31.89	-30.74	-35.79	-32.93
1200	-0.15	-14.24	-14.29	20.82	-27.09	-26.99	-28.74	-28.70
1300	-0.16	-14.43	-14.47	20.95	-25.00	-24.86	-25.46	-25.73
1400	-0.18	-14.62	-14.69	21.40	-24.14	-24.29	-23.74	-24.12
1500	-0.18	-14.76	-14.85	22.08	-23.43	-23.91	-23.08	-23.80
1600	-0.17	-14.80	-14.92	22.57	-23.41	-24.37	-23.21	-24.22
1700	-0.17	-14.76	-14.88	22.61	-23.69	-25.27	-23.70	-25.34
1800	-0.17	-14.62	-14.76	22.34	-24.76	-27.34	-24.83	-27.50
1900	-0.17	-14.42	-14.56	21.89	-25.53	-29.68	-26.30	-30.23
2000	-0.18	-14.24	-14.38	21.41	-25.24	-30.05	-28.09	-33.61
2050	-0.18	-14.14	-14.29	21.46	-24.76	-29.20	-29.09	-35.68
2150	-0.20	-14.05	-14.17	21.10	-24.21	-27.16	-31.69	-41.40
2200	-0.22	-14.04	-14.15	21.11	-23.91	-25.95	-32.66	-42.19
2250	-0.22	-14.06	-14.15	20.79	-23.63	-25.30	-32.76	-41.93
2300	-0.23	-14.10	-14.20	20.81	-23.25	-24.57	-33.36	-39.30
2400	-0.23	-14.31	-14.40	20.77	-23.23	-24.11	-35.49	-37.75
2500	-0.24	-14.70	-14.78	20.19	-23.84	-24.32	-38.09	-36.42
2600	-0.27	-15.36	-15.37	19.01	-26.41	-25.72	-38.69	-33.80
2700	-0.27	-16.19	-16.26	18.02	-29.90	-28.35	-39.60	-33.04
2800	-0.28	-17.41	-17.48	16.45	-32.09	-31.67	-45.90	-34.27
2900	-0.29	-19.07	-19.20	14.10	-31.31	-32.94	-42.82	-36.13
3000	-0.30	-21.57	-21.73	11.07	-30.31	-32.74	-34.64	-34.35

Bi-Directional Coupler

BDCH-15-272+

Typical Performance Data

Test Conditions: Input Power = +5 dbm, Temperature = -55°C, Configuration C.

Freq. (MHz)	I. Loss (dB) In - Out	Coupling (dB)		Directivity (dB) In - Fwd	Return Loss (dB)			
		In - Fwd	Out - Rev		In	Out	Fwd	Rev
50	-0.05	-35.67	-35.67	30.52	-44.75	-41.37	-44.38	-45.67
100	-0.06	-29.70	-29.70	27.41	-34.99	-34.57	-34.23	-34.65
150	-0.06	-26.25	-26.25	25.32	-28.76	-28.40	-27.71	-27.92
250	-0.08	-22.04	-22.04	22.76	-23.72	-23.61	-22.64	-22.60
300	-0.09	-20.59	-20.60	22.36	-23.28	-23.22	-22.25	-22.26
350	-0.09	-19.40	-19.41	22.28	-23.43	-23.39	-22.57	-22.73
400	-0.09	-18.40	-18.42	22.39	-23.88	-23.73	-23.19	-23.39
450	-0.09	-17.57	-17.59	22.32	-24.30	-24.25	-23.85	-23.95
500	-0.09	-16.86	-16.89	22.38	-25.16	-24.90	-24.89	-24.78
550	-0.09	-16.27	-16.30	22.38	-26.01	-25.74	-25.95	-25.57
600	-0.09	-15.77	-15.80	22.38	-26.85	-26.29	-27.01	-26.59
650	-0.10	-15.39	-15.42	22.21	-27.32	-26.60	-27.97	-27.89
700	-0.10	-15.00	-15.04	22.03	-27.79	-26.90	-28.92	-29.19
750	-0.10	-14.71	-14.76	21.89	-28.30	-27.75	-31.45	-30.99
800	-0.10	-14.47	-14.54	21.61	-29.33	-28.02	-35.89	-33.19
850	-0.10	-14.32	-14.37	21.36	-30.74	-29.85	-42.78	-36.29
900	-0.11	-14.20	-14.25	21.10	-33.19	-30.61	-57.34	-37.52
950	-0.11	-14.12	-14.18	20.98	-36.92	-34.06	-43.80	-36.51
1000	-0.12	-14.08	-14.14	20.55	-45.84	-34.07	-38.94	-34.83
1100	-0.13	-14.10	-14.17	20.01	-35.79	-32.93	-31.89	-30.74
1200	-0.14	-14.24	-14.31	19.86	-28.74	-28.70	-27.09	-26.99
1300	-0.16	-14.44	-14.50	19.79	-25.46	-25.73	-25.00	-24.86
1400	-0.17	-14.63	-14.71	20.45	-23.74	-24.12	-24.14	-24.29
1500	-0.17	-14.77	-14.87	21.13	-23.08	-23.80	-23.43	-23.91
1600	-0.17	-14.81	-14.94	21.79	-23.21	-24.22	-23.41	-24.37
1700	-0.17	-14.77	-14.90	21.87	-23.70	-25.34	-23.69	-25.27
1800	-0.18	-14.63	-14.78	22.01	-24.83	-27.50	-24.76	-27.34
1900	-0.18	-14.43	-14.58	21.56	-26.30	-30.23	-25.53	-29.68
2000	-0.18	-14.25	-14.40	20.76	-28.09	-33.61	-25.24	-30.05
2050	-0.18	-14.15	-14.31	20.56	-29.09	-35.68	-24.76	-29.20
2150	-0.19	-14.06	-14.19	19.82	-31.69	-41.40	-24.21	-27.16
2200	-0.19	-14.04	-14.17	19.84	-32.66	-42.19	-23.91	-25.95
2250	-0.20	-14.07	-14.17	19.62	-32.76	-41.93	-23.63	-25.30
2300	-0.20	-14.11	-14.22	19.57	-33.36	-39.30	-23.25	-24.57
2400	-0.21	-14.32	-14.42	19.06	-35.49	-37.75	-23.23	-24.11
2500	-0.22	-14.70	-14.80	18.55	-38.09	-36.42	-23.84	-24.32
2600	-0.24	-15.36	-15.40	18.07	-38.69	-33.80	-26.41	-25.72
2700	-0.24	-16.19	-16.29	17.54	-39.60	-33.04	-29.90	-28.35
2800	-0.26	-17.40	-17.51	16.13	-45.90	-34.27	-32.09	-31.67
2900	-0.27	-19.07	-19.22	14.06	-42.82	-36.13	-31.31	-32.94
3000	-0.27	-21.57	-21.75	11.24	-34.64	-34.35	-30.31	-32.74

Bi-Directional Coupler

BDCH-15-272+

Typical Performance Data

Test Conditions: Input Power = +5 dbm, Temperature = -55°C, Configuration D.

Freq. (MHz)	I. Loss (dB) In - Out	Coupling (dB)		Directivity (dB) In - Fwd	Return Loss (dB)			
		In - Fwd	Out - Rev		In	Out	Fwd	Rev
50	-0.06	-35.67	-35.67	31.09	-41.37	-44.75	-45.67	-44.38
100	-0.08	-29.70	-29.70	28.09	-34.57	-34.99	-34.65	-34.23
150	-0.08	-26.25	-26.25	26.02	-28.40	-28.76	-27.92	-27.71
250	-0.10	-22.04	-22.04	23.58	-23.61	-23.72	-22.60	-22.64
300	-0.10	-20.60	-20.59	23.23	-23.22	-23.28	-22.26	-22.25
350	-0.11	-19.41	-19.40	23.15	-23.39	-23.43	-22.73	-22.57
400	-0.10	-18.42	-18.40	23.19	-23.73	-23.88	-23.39	-23.19
450	-0.11	-17.59	-17.57	23.23	-24.25	-24.30	-23.95	-23.85
500	-0.10	-16.89	-16.86	23.41	-24.90	-25.16	-24.78	-24.89
550	-0.11	-16.30	-16.27	23.46	-25.74	-26.01	-25.57	-25.95
600	-0.11	-15.80	-15.77	23.74	-26.29	-26.85	-26.59	-27.01
650	-0.12	-15.42	-15.39	23.48	-26.60	-27.32	-27.89	-27.97
700	-0.12	-15.04	-15.00	23.21	-26.90	-27.79	-29.19	-28.92
750	-0.12	-14.76	-14.71	22.96	-27.75	-28.30	-30.99	-31.45
800	-0.12	-14.54	-14.47	22.68	-28.02	-29.33	-33.19	-35.89
850	-0.13	-14.37	-14.32	22.52	-29.85	-30.74	-36.29	-42.78
900	-0.13	-14.25	-14.20	22.16	-30.61	-33.19	-37.52	-57.34
950	-0.13	-14.18	-14.12	21.86	-34.06	-36.92	-36.51	-43.80
1000	-0.14	-14.14	-14.08	21.28	-34.07	-45.84	-34.83	-38.94
1100	-0.15	-14.17	-14.10	20.65	-32.93	-35.79	-30.74	-31.89
1200	-0.17	-14.31	-14.24	20.62	-28.70	-28.74	-26.99	-27.09
1300	-0.18	-14.50	-14.44	20.80	-25.73	-25.46	-24.86	-25.00
1400	-0.19	-14.71	-14.63	21.31	-24.12	-23.74	-24.29	-24.14
1500	-0.20	-14.87	-14.77	21.95	-23.80	-23.08	-23.91	-23.43
1600	-0.20	-14.94	-14.81	22.40	-24.22	-23.21	-24.37	-23.41
1700	-0.21	-14.90	-14.77	22.44	-25.34	-23.70	-25.27	-23.69
1800	-0.21	-14.78	-14.63	22.25	-27.50	-24.83	-27.34	-24.76
1900	-0.20	-14.58	-14.43	21.77	-30.23	-26.30	-29.68	-25.53
2000	-0.21	-14.40	-14.25	21.11	-33.61	-28.09	-30.05	-25.24
2050	-0.21	-14.31	-14.15	21.22	-35.68	-29.09	-29.20	-24.76
2150	-0.21	-14.19	-14.06	20.99	-41.40	-31.69	-27.16	-24.21
2200	-0.22	-14.17	-14.04	21.03	-42.19	-32.66	-25.95	-23.91
2250	-0.22	-14.17	-14.07	20.73	-41.93	-32.76	-25.30	-23.63
2300	-0.22	-14.22	-14.11	20.69	-39.30	-33.36	-24.57	-23.25
2400	-0.23	-14.42	-14.32	20.51	-37.75	-35.49	-24.11	-23.23
2500	-0.24	-14.80	-14.70	20.19	-36.42	-38.09	-24.32	-23.84
2600	-0.26	-15.40	-15.36	19.26	-33.80	-38.69	-25.72	-26.41
2700	-0.27	-16.29	-16.19	17.92	-33.04	-39.60	-28.35	-29.90
2800	-0.28	-17.51	-17.40	16.16	-34.27	-45.90	-31.67	-32.09
2900	-0.29	-19.22	-19.07	13.93	-36.13	-42.82	-32.94	-31.31
3000	-0.30	-21.75	-21.57	11.03	-34.35	-34.64	-32.74	-30.31

Bi-Directional Coupler

BDCH-15-272+

Typical Performance Data

Test Conditions: Input Power = +5 dbm, Temperature = +25°C, Configuration A.

Freq. (MHz)	I. Loss (dB)	Coupling (dB)		Directivity (dB)	Return Loss (dB)			
	In - Out	In - Fwd	Out - Rev		In	Out	Fwd	Rev
50	-0.05	-35.62	-35.61	31.95	-37.27	-37.36	-37.70	-37.69
100	-0.07	-29.66	-29.64	30.20	-32.10	-32.33	-32.40	-32.82
150	-0.07	-26.20	-26.18	29.03	-29.11	-29.16	-29.79	-29.78
250	-0.08	-21.97	-21.95	26.36	-25.63	-25.62	-26.27	-26.31
300	-0.09	-20.53	-20.51	25.30	-24.67	-24.69	-25.24	-25.32
350	-0.09	-19.35	-19.32	24.59	-24.06	-24.02	-24.55	-24.58
400	-0.10	-18.37	-18.34	23.90	-23.68	-23.67	-24.06	-24.18
450	-0.10	-17.55	-17.51	23.29	-23.45	-23.45	-23.88	-23.93
500	-0.10	-16.86	-16.81	22.84	-23.59	-23.57	-23.81	-23.93
550	-0.10	-16.27	-16.21	22.52	-23.95	-23.90	-23.95	-24.23
600	-0.11	-15.77	-15.71	22.11	-24.56	-24.54	-24.31	-24.55
650	-0.11	-15.39	-15.32	21.84	-25.58	-25.68	-24.89	-25.28
700	-0.11	-15.01	-14.93	21.57	-26.60	-26.82	-25.46	-26.00
750	-0.11	-14.73	-14.65	21.25	-28.05	-28.71	-26.42	-27.27
800	-0.11	-14.51	-14.42	21.01	-29.65	-31.08	-27.52	-28.58
850	-0.11	-14.34	-14.25	20.72	-32.24	-34.93	-29.09	-30.90
900	-0.12	-14.22	-14.13	20.38	-34.75	-41.50	-30.94	-33.60
950	-0.12	-14.14	-14.06	20.16	-36.40	-53.02	-32.94	-39.27
1000	-0.13	-14.11	-14.02	19.90	-35.11	-38.77	-35.18	-47.59
1100	-0.14	-14.14	-14.06	19.50	-30.22	-30.45	-34.01	-36.61
1200	-0.16	-14.28	-14.20	19.20	-26.81	-26.66	-30.22	-30.23
1300	-0.17	-14.49	-14.39	19.17	-24.95	-24.64	-27.49	-27.02
1400	-0.18	-14.70	-14.58	19.41	-24.02	-23.61	-25.80	-25.17
1500	-0.19	-14.86	-14.73	19.86	-23.93	-23.39	-24.98	-24.11
1600	-0.18	-14.94	-14.78	20.75	-24.93	-23.91	-24.82	-23.80
1700	-0.19	-14.91	-14.73	21.39	-26.37	-24.58	-25.30	-23.96
1800	-0.19	-14.78	-14.59	21.60	-28.27	-25.40	-26.41	-24.56
1900	-0.20	-14.58	-14.39	21.53	-30.36	-26.00	-28.12	-25.45
2000	-0.20	-14.39	-14.20	21.39	-31.10	-26.06	-29.99	-26.53
2050	-0.21	-14.30	-14.11	21.16	-30.65	-26.21	-30.50	-27.10
2150	-0.22	-14.17	-14.01	20.50	-29.07	-25.86	-32.32	-28.60
2200	-0.22	-14.16	-13.99	20.14	-28.16	-25.54	-33.83	-29.32
2250	-0.23	-14.15	-14.01	19.78	-27.72	-25.77	-34.09	-30.30
2300	-0.23	-14.20	-14.05	19.47	-27.17	-25.42	-35.77	-30.98
2400	-0.23	-14.39	-14.26	18.83	-27.06	-25.82	-37.00	-32.95
2500	-0.24	-14.77	-14.64	17.87	-27.07	-26.71	-37.89	-35.38
2600	-0.25	-15.38	-15.27	16.92	-27.33	-28.09	-38.07	-38.34
2700	-0.26	-16.26	-16.15	15.87	-28.41	-29.33	-37.44	-41.46
2800	-0.27	-17.47	-17.37	14.79	-30.29	-30.59	-36.81	-42.60
2900	-0.28	-19.17	-19.04	13.10	-31.53	-30.72	-36.53	-39.03
3000	-0.30	-21.65	-21.47	10.55	-30.98	-29.58	-33.90	-34.01

Bi-Directional Coupler

BDCH-15-272+

Typical Performance Data

Test Conditions: Input Power = +5 dbm, Temperature = +25°C, Configuration B.

Freq. (MHz)	I. Loss (dB)	Coupling (dB)		Directivity (dB)	Return Loss (dB)			
	In - Out	In - Fwd	Out - Rev		In	Out	Fwd	Rev
50	-0.05	-35.61	-35.62	31.69	-37.36	-37.27	-37.69	-37.70
100	-0.06	-29.64	-29.66	30.15	-32.33	-32.10	-32.82	-32.40
150	-0.06	-26.18	-26.20	28.82	-29.16	-29.11	-29.78	-29.79
250	-0.07	-21.95	-21.97	26.30	-25.62	-25.63	-26.31	-26.27
300	-0.08	-20.51	-20.53	25.27	-24.69	-24.67	-25.32	-25.24
350	-0.09	-19.32	-19.35	24.53	-24.02	-24.06	-24.58	-24.55
400	-0.09	-18.34	-18.37	23.95	-23.67	-23.68	-24.18	-24.06
450	-0.09	-17.51	-17.55	23.48	-23.45	-23.45	-23.93	-23.88
500	-0.09	-16.81	-16.86	23.04	-23.57	-23.59	-23.93	-23.81
550	-0.10	-16.21	-16.27	22.73	-23.90	-23.95	-24.23	-23.95
600	-0.10	-15.71	-15.77	22.43	-24.54	-24.56	-24.55	-24.31
650	-0.10	-15.32	-15.39	22.23	-25.68	-25.58	-25.28	-24.89
700	-0.10	-14.93	-15.01	22.03	-26.82	-26.60	-26.00	-25.46
750	-0.10	-14.65	-14.73	21.86	-28.71	-28.05	-27.27	-26.42
800	-0.10	-14.42	-14.51	21.67	-31.08	-29.65	-28.58	-27.52
850	-0.10	-14.25	-14.34	21.42	-34.93	-32.24	-30.90	-29.09
900	-0.11	-14.13	-14.22	21.16	-41.50	-34.75	-33.60	-30.94
950	-0.11	-14.06	-14.14	21.01	-53.02	-36.40	-39.27	-32.94
1000	-0.12	-14.02	-14.11	20.75	-38.77	-35.11	-47.59	-35.18
1100	-0.14	-14.06	-14.14	20.72	-30.45	-30.22	-36.61	-34.01
1200	-0.15	-14.20	-14.28	20.86	-26.66	-26.81	-30.23	-30.22
1300	-0.16	-14.39	-14.49	21.25	-24.64	-24.95	-27.02	-27.49
1400	-0.17	-14.58	-14.70	21.63	-23.61	-24.02	-25.17	-25.80
1500	-0.18	-14.73	-14.86	22.04	-23.39	-23.93	-24.11	-24.98
1600	-0.17	-14.78	-14.94	22.23	-23.91	-24.93	-23.80	-24.82
1700	-0.17	-14.73	-14.91	21.93	-24.58	-26.37	-23.96	-25.30
1800	-0.17	-14.59	-14.78	21.37	-25.40	-28.27	-24.56	-26.41
1900	-0.17	-14.39	-14.58	20.96	-26.00	-30.36	-25.45	-28.12
2000	-0.18	-14.20	-14.39	20.67	-26.06	-31.10	-26.53	-29.99
2050	-0.19	-14.11	-14.30	20.46	-26.21	-30.65	-27.10	-30.50
2150	-0.20	-14.01	-14.17	20.14	-25.86	-29.07	-28.60	-32.32
2200	-0.20	-13.99	-14.16	19.97	-25.54	-28.16	-29.32	-33.83
2250	-0.21	-14.01	-14.15	19.90	-25.77	-27.72	-30.30	-34.09
2300	-0.21	-14.05	-14.20	19.90	-25.42	-27.17	-30.98	-35.77
2400	-0.22	-14.26	-14.39	19.73	-25.82	-27.06	-32.95	-37.00
2500	-0.23	-14.64	-14.77	18.85	-26.71	-27.07	-35.38	-37.89
2600	-0.25	-15.27	-15.38	17.95	-28.09	-27.33	-38.34	-38.07
2700	-0.26	-16.15	-16.26	16.97	-29.33	-28.41	-41.46	-37.44
2800	-0.28	-17.37	-17.47	15.63	-30.59	-30.29	-42.60	-36.81
2900	-0.29	-19.04	-19.17	13.62	-30.72	-31.53	-39.03	-36.53
3000	-0.29	-21.47	-21.65	10.92	-29.58	-30.98	-34.01	-33.90

Bi-Directional Coupler

BDCH-15-272+

Typical Performance Data

Test Conditions: Input Power = +5 dbm, Temperature = +25°C, Configuration C.

Freq. (MHz)	I. Loss (dB) In - Out	Coupling (dB)		Directivity (dB) In - Fwd	Return Loss (dB)			
		In - Fwd	Out - Rev		In	Out	Fwd	Rev
50	-0.05	-35.62	-35.61	31.55	-37.69	-37.70	-37.36	-37.27
100	-0.06	-29.65	-29.65	30.05	-32.82	-32.40	-32.33	-32.10
150	-0.06	-26.19	-26.19	28.91	-29.78	-29.79	-29.16	-29.11
250	-0.07	-21.96	-21.97	26.32	-26.31	-26.27	-25.62	-25.63
300	-0.07	-20.51	-20.53	25.34	-25.32	-25.24	-24.69	-24.67
350	-0.08	-19.33	-19.35	24.52	-24.58	-24.55	-24.02	-24.06
400	-0.08	-18.34	-18.37	23.95	-24.18	-24.06	-23.67	-23.68
450	-0.08	-17.52	-17.54	23.40	-23.93	-23.88	-23.45	-23.45
500	-0.08	-16.81	-16.85	22.93	-23.93	-23.81	-23.57	-23.59
550	-0.09	-16.22	-16.26	22.63	-24.23	-23.95	-23.90	-23.95
600	-0.09	-15.72	-15.76	22.23	-24.55	-24.31	-24.54	-24.56
650	-0.10	-15.33	-15.38	21.94	-25.28	-24.89	-25.68	-25.58
700	-0.10	-14.94	-15.00	21.65	-26.00	-25.46	-26.82	-26.60
750	-0.10	-14.65	-14.72	21.40	-27.27	-26.42	-28.71	-28.05
800	-0.10	-14.43	-14.50	21.06	-28.58	-27.52	-31.08	-29.65
850	-0.10	-14.25	-14.33	20.80	-30.90	-29.09	-34.93	-32.24
900	-0.11	-14.14	-14.21	20.46	-33.60	-30.94	-41.50	-34.75
950	-0.11	-14.06	-14.13	20.29	-39.27	-32.94	-53.02	-36.40
1000	-0.12	-14.02	-14.10	19.94	-47.59	-35.18	-38.77	-35.11
1100	-0.13	-14.06	-14.13	19.50	-36.61	-34.01	-30.45	-30.22
1200	-0.14	-14.20	-14.27	19.20	-30.23	-30.22	-26.66	-26.81
1300	-0.15	-14.39	-14.48	19.22	-27.02	-27.49	-24.64	-24.95
1400	-0.16	-14.58	-14.69	19.47	-25.17	-25.80	-23.61	-24.02
1500	-0.17	-14.73	-14.85	19.98	-24.11	-24.98	-23.39	-23.93
1600	-0.17	-14.78	-14.93	20.89	-23.80	-24.82	-23.91	-24.93
1700	-0.18	-14.73	-14.90	21.58	-23.96	-25.30	-24.58	-26.37
1800	-0.18	-14.59	-14.77	21.77	-24.56	-26.41	-25.40	-28.27
1900	-0.18	-14.40	-14.57	21.74	-25.45	-28.12	-26.00	-30.36
2000	-0.19	-14.21	-14.37	21.54	-26.53	-29.99	-26.06	-31.10
2050	-0.19	-14.12	-14.29	21.33	-27.10	-30.50	-26.21	-30.65
2150	-0.19	-14.02	-14.16	20.62	-28.60	-32.32	-25.86	-29.07
2200	-0.20	-13.99	-14.14	20.30	-29.32	-33.83	-25.54	-28.16
2250	-0.20	-14.01	-14.14	19.92	-30.30	-34.09	-25.77	-27.72
2300	-0.21	-14.05	-14.19	19.60	-30.98	-35.77	-25.42	-27.17
2400	-0.22	-14.26	-14.38	18.89	-32.95	-37.00	-25.82	-27.06
2500	-0.23	-14.64	-14.76	17.93	-35.38	-37.89	-26.71	-27.07
2600	-0.25	-15.26	-15.37	16.97	-38.34	-38.07	-28.09	-27.33
2700	-0.26	-16.15	-16.25	15.93	-41.46	-37.44	-29.33	-28.41
2800	-0.28	-17.36	-17.46	14.88	-42.60	-36.81	-30.59	-30.29
2900	-0.29	-19.03	-19.15	13.21	-39.03	-36.53	-30.72	-31.53
3000	-0.30	-21.46	-21.63	10.71	-34.01	-33.90	-29.58	-30.98

Bi-Directional Coupler

BDCH-15-272+

Typical Performance Data

Test Conditions: Input Power = +5 dbm, Temperature = +25°C, Configuration D.

Freq. (MHz)	I. Loss (dB) In - Out	Coupling (dB)		Directivity (dB) In - Fwd	Return Loss (dB)			
		In - Fwd	Out - Rev		In	Out	Fwd	Rev
50	-0.04	-35.61	-35.62	31.97	-37.70	-37.69	-37.27	-37.36
100	-0.06	-29.65	-29.65	30.02	-32.40	-32.82	-32.10	-32.33
150	-0.06	-26.19	-26.19	28.79	-29.79	-29.78	-29.11	-29.16
250	-0.06	-21.97	-21.96	26.14	-26.27	-26.31	-25.63	-25.62
300	-0.07	-20.53	-20.51	25.20	-25.24	-25.32	-24.67	-24.69
350	-0.08	-19.35	-19.33	24.46	-24.55	-24.58	-24.06	-24.02
400	-0.08	-18.37	-18.34	23.78	-24.06	-24.18	-23.68	-23.67
450	-0.08	-17.54	-17.52	23.37	-23.88	-23.93	-23.45	-23.45
500	-0.09	-16.85	-16.81	22.98	-23.81	-23.93	-23.59	-23.57
550	-0.09	-16.26	-16.22	22.64	-23.95	-24.23	-23.95	-23.90
600	-0.09	-15.76	-15.72	22.43	-24.31	-24.55	-24.56	-24.54
650	-0.10	-15.38	-15.33	22.21	-24.89	-25.28	-25.58	-25.68
700	-0.10	-15.00	-14.94	21.99	-25.46	-26.00	-26.60	-26.82
750	-0.10	-14.72	-14.65	21.79	-26.42	-27.27	-28.05	-28.71
800	-0.10	-14.50	-14.43	21.56	-27.52	-28.58	-29.65	-31.08
850	-0.11	-14.33	-14.25	21.31	-29.09	-30.90	-32.24	-34.93
900	-0.11	-14.21	-14.14	21.09	-30.94	-33.60	-34.75	-41.50
950	-0.11	-14.13	-14.06	20.96	-32.94	-39.27	-36.40	-53.02
1000	-0.12	-14.10	-14.02	20.70	-35.18	-47.59	-35.11	-38.77
1100	-0.13	-14.13	-14.06	20.59	-34.01	-36.61	-30.22	-30.45
1200	-0.15	-14.27	-14.20	20.65	-30.22	-30.23	-26.81	-26.66
1300	-0.16	-14.48	-14.39	21.06	-27.49	-27.02	-24.95	-24.64
1400	-0.17	-14.69	-14.58	21.50	-25.80	-25.17	-24.02	-23.61
1500	-0.18	-14.85	-14.73	21.87	-24.98	-24.11	-23.93	-23.39
1600	-0.19	-14.93	-14.78	22.04	-24.82	-23.80	-24.93	-23.91
1700	-0.19	-14.90	-14.73	21.73	-25.30	-23.96	-26.37	-24.58
1800	-0.19	-14.77	-14.59	21.24	-26.41	-24.56	-28.27	-25.40
1900	-0.19	-14.57	-14.40	20.77	-28.12	-25.45	-30.36	-26.00
2000	-0.20	-14.37	-14.21	20.36	-29.99	-26.53	-31.10	-26.06
2050	-0.20	-14.29	-14.12	20.21	-30.50	-27.10	-30.65	-26.21
2150	-0.20	-14.16	-14.02	20.01	-32.32	-28.60	-29.07	-25.86
2200	-0.21	-14.14	-13.99	19.86	-33.83	-29.32	-28.16	-25.54
2250	-0.21	-14.14	-14.01	19.78	-34.09	-30.30	-27.72	-25.77
2300	-0.22	-14.19	-14.05	19.73	-35.77	-30.98	-27.17	-25.42
2400	-0.23	-14.38	-14.26	19.47	-37.00	-32.95	-27.06	-25.82
2500	-0.24	-14.76	-14.64	18.86	-37.89	-35.38	-27.07	-26.71
2600	-0.25	-15.37	-15.26	18.08	-38.07	-38.34	-27.33	-28.09
2700	-0.26	-16.25	-16.15	16.80	-37.44	-41.46	-28.41	-29.33
2800	-0.28	-17.46	-17.36	15.35	-36.81	-42.60	-30.29	-30.59
2900	-0.29	-19.15	-19.03	13.53	-36.53	-39.03	-31.53	-30.72
3000	-0.30	-21.63	-21.46	10.87	-33.90	-34.01	-30.98	-29.58

Bi-Directional Coupler

BDCH-15-272+

Typical Performance Data

Test Conditions: Input Power = +5 dbm, Temperature = +105°C, Configuration A.

Freq. (MHz)	I. Loss (dB) In - Out	Coupling (dB)		Directivity (dB) In - Fwd	Return Loss (dB)			
		In - Fwd	Out - Rev		In	Out	Fwd	Rev
50	-0.07	-35.54	-35.54	33.03	-33.31	-33.37	-33.46	-33.57
100	-0.09	-29.59	-29.58	30.87	-29.94	-30.17	-30.15	-30.28
150	-0.09	-26.13	-26.13	30.08	-29.47	-29.55	-30.16	-30.00
250	-0.11	-21.90	-21.89	30.87	-30.14	-29.86	-31.05	-30.92
300	-0.11	-20.46	-20.45	30.15	-29.10	-28.84	-29.80	-29.87
350	-0.12	-19.28	-19.27	28.88	-27.53	-27.35	-28.34	-28.38
400	-0.12	-18.31	-18.29	26.85	-25.84	-25.75	-26.67	-26.89
450	-0.13	-17.49	-17.47	25.42	-25.02	-25.01	-25.76	-25.77
500	-0.13	-16.81	-16.77	24.45	-24.77	-24.63	-24.85	-25.01
550	-0.14	-16.23	-16.19	23.78	-24.97	-24.83	-24.54	-24.70
600	-0.14	-15.74	-15.68	23.33	-25.37	-25.25	-24.43	-24.69
650	-0.14	-15.37	-15.30	22.93	-25.76	-25.90	-24.66	-25.04
700	-0.14	-14.99	-14.91	22.52	-26.15	-26.54	-24.89	-25.38
750	-0.13	-14.71	-14.62	21.90	-26.23	-27.40	-25.48	-25.84
800	-0.13	-14.49	-14.39	21.28	-26.81	-28.42	-25.87	-26.72
850	-0.14	-14.33	-14.23	20.61	-28.15	-29.86	-26.86	-27.64
900	-0.15	-14.21	-14.11	20.04	-30.45	-32.05	-27.57	-29.31
950	-0.16	-14.14	-14.04	19.71	-32.48	-36.23	-29.30	-31.21
1000	-0.17	-14.10	-14.00	19.29	-35.73	-43.38	-30.26	-34.11
1100	-0.18	-14.14	-14.03	18.55	-38.33	-38.09	-32.79	-40.54
1200	-0.19	-14.28	-14.17	17.93	-31.13	-29.79	-32.54	-34.09
1300	-0.21	-14.48	-14.37	17.52	-26.20	-25.59	-28.92	-28.30
1400	-0.22	-14.70	-14.58	17.91	-24.15	-23.53	-26.04	-25.19
1500	-0.23	-14.88	-14.74	18.52	-23.12	-22.31	-24.24	-23.26
1600	-0.22	-14.95	-14.78	19.54	-22.96	-21.89	-23.36	-22.43
1700	-0.23	-14.91	-14.74	19.88	-23.10	-22.03	-23.36	-22.32
1800	-0.23	-14.78	-14.60	20.23	-24.54	-22.96	-24.13	-22.85
1900	-0.23	-14.58	-14.39	19.96	-26.40	-23.94	-25.50	-23.83
2000	-0.23	-14.38	-14.19	19.23	-27.78	-24.78	-27.45	-25.25
2050	-0.24	-14.28	-14.09	18.95	-27.94	-25.05	-27.88	-25.93
2150	-0.26	-14.16	-13.99	18.21	-27.84	-25.38	-30.31	-27.83
2200	-0.26	-14.14	-13.98	18.02	-27.46	-25.24	-32.96	-29.04
2250	-0.27	-14.15	-13.99	17.73	-27.23	-25.65	-33.33	-29.96
2300	-0.27	-14.20	-14.04	17.46	-26.78	-25.21	-36.96	-31.42
2400	-0.27	-14.40	-14.25	16.88	-26.49	-25.15	-39.18	-33.72
2500	-0.28	-14.79	-14.65	16.27	-26.08	-24.86	-37.32	-34.65
2600	-0.30	-15.43	-15.33	15.71	-26.47	-25.93	-34.85	-34.43
2700	-0.30	-16.33	-16.19	15.27	-27.71	-27.14	-33.18	-33.45
2800	-0.31	-17.59	-17.45	14.25	-29.23	-27.91	-32.16	-32.98
2900	-0.32	-19.37	-19.17	12.45	-29.82	-28.15	-31.71	-32.47
3000	-0.34	-21.98	-21.74	9.69	-29.97	-29.11	-30.39	-31.22

NOTES:

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at <https://www.minicircuits.com/terms/viewterm.html>



Bi-Directional Coupler

BDCH-15-272+

Typical Performance Data

Test Conditions: Input Power = +5 dbm, Temperature = +105°C, Configuration B.

Freq. (MHz)	I. Loss (dB) In - Out	Coupling (dB)		Directivity (dB) In - Fwd	Return Loss (dB)			
		In - Fwd	Out - Rev		In	Out	Fwd	Rev
50	-0.07	-35.54	-35.54	32.92	-33.37	-33.31	-33.57	-33.46
100	-0.09	-29.58	-29.59	31.00	-30.17	-29.94	-30.28	-30.15
150	-0.09	-26.13	-26.13	30.40	-29.55	-29.47	-30.00	-30.16
250	-0.10	-21.89	-21.90	30.32	-29.86	-30.14	-30.92	-31.05
300	-0.11	-20.45	-20.46	29.30	-28.84	-29.10	-29.87	-29.80
350	-0.11	-19.27	-19.28	27.94	-27.35	-27.53	-28.38	-28.34
400	-0.12	-18.29	-18.31	26.51	-25.75	-25.84	-26.89	-26.67
450	-0.13	-17.47	-17.49	25.49	-25.01	-25.02	-25.77	-25.76
500	-0.13	-16.77	-16.81	24.66	-24.63	-24.77	-25.01	-24.85
550	-0.13	-16.19	-16.23	23.97	-24.83	-24.97	-24.70	-24.54
600	-0.14	-15.68	-15.74	23.57	-25.25	-25.37	-24.69	-24.43
650	-0.14	-15.30	-15.37	23.22	-25.90	-25.76	-25.04	-24.66
700	-0.13	-14.91	-14.99	22.87	-26.54	-26.15	-25.38	-24.89
750	-0.13	-14.62	-14.71	22.47	-27.40	-26.23	-25.84	-25.48
800	-0.13	-14.39	-14.49	22.01	-28.42	-26.81	-26.72	-25.87
850	-0.14	-14.23	-14.33	21.64	-29.86	-28.15	-27.64	-26.86
900	-0.16	-14.11	-14.21	21.13	-32.05	-30.45	-29.31	-27.57
950	-0.16	-14.04	-14.14	20.82	-36.23	-32.48	-31.21	-29.30
1000	-0.17	-14.00	-14.10	20.38	-43.38	-35.73	-34.11	-30.26
1100	-0.17	-14.03	-14.14	20.05	-38.09	-38.33	-40.54	-32.79
1200	-0.18	-14.17	-14.28	19.88	-29.79	-31.13	-34.09	-32.54
1300	-0.20	-14.37	-14.48	19.78	-25.59	-26.20	-28.30	-28.92
1400	-0.22	-14.58	-14.70	20.01	-23.53	-24.15	-25.19	-26.04
1500	-0.22	-14.74	-14.88	20.46	-22.31	-23.12	-23.26	-24.24
1600	-0.22	-14.78	-14.95	20.94	-21.89	-22.96	-22.43	-23.36
1700	-0.22	-14.74	-14.91	20.91	-22.03	-23.10	-22.32	-23.36
1800	-0.23	-14.60	-14.78	20.37	-22.96	-24.54	-22.85	-24.13
1900	-0.23	-14.39	-14.58	19.84	-23.94	-26.40	-23.83	-25.50
2000	-0.23	-14.19	-14.38	19.20	-24.78	-27.78	-25.25	-27.45
2050	-0.23	-14.09	-14.28	19.00	-25.05	-27.94	-25.93	-27.88
2150	-0.25	-13.99	-14.16	18.36	-25.38	-27.84	-27.83	-30.31
2200	-0.26	-13.98	-14.14	18.20	-25.24	-27.46	-29.04	-32.96
2250	-0.26	-13.99	-14.15	17.97	-25.65	-27.23	-29.96	-33.33
2300	-0.27	-14.04	-14.20	17.91	-25.21	-26.78	-31.42	-36.96
2400	-0.27	-14.25	-14.40	17.64	-25.15	-26.49	-33.72	-39.18
2500	-0.29	-14.65	-14.79	17.00	-24.86	-26.08	-34.65	-37.32
2600	-0.31	-15.33	-15.43	16.36	-25.93	-26.47	-34.43	-34.85
2700	-0.32	-16.19	-16.33	16.02	-27.14	-27.71	-33.45	-33.18
2800	-0.34	-17.45	-17.59	14.88	-27.91	-29.23	-32.98	-32.16
2900	-0.34	-19.17	-19.37	12.77	-28.15	-29.82	-32.47	-31.71
3000	-0.36	-21.74	-21.98	9.91	-29.11	-29.97	-31.22	-30.39

NOTES:

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at <https://www.minicircuits.com/terms/viewterm.html>



Bi-Directional Coupler

BDCH-15-272+

Typical Performance Data

Test Conditions: Input Power = +5 dbm, Temperature = +105°C, Configuration C.

Freq. (MHz)	I. Loss (dB) In - Out	Coupling (dB)		Directivity (dB) In - Fwd	Return Loss (dB)			
		In - Fwd	Out - Rev		In	Out	Fwd	Rev
50	-0.05	-35.55	-35.54	32.66	-33.57	-33.46	-33.37	-33.31
100	-0.07	-29.59	-29.59	30.67	-30.28	-30.15	-30.17	-29.94
150	-0.07	-26.13	-26.13	30.00	-30.00	-30.16	-29.55	-29.47
250	-0.07	-21.89	-21.90	30.86	-30.92	-31.05	-29.86	-30.14
300	-0.08	-20.45	-20.46	30.20	-29.87	-29.80	-28.84	-29.10
350	-0.08	-19.27	-19.28	28.78	-28.38	-28.34	-27.35	-27.53
400	-0.09	-18.29	-18.31	26.91	-26.89	-26.67	-25.75	-25.84
450	-0.09	-17.47	-17.50	25.53	-25.77	-25.76	-25.01	-25.02
500	-0.10	-16.78	-16.81	24.55	-25.01	-24.85	-24.63	-24.77
550	-0.11	-16.18	-16.23	23.90	-24.70	-24.54	-24.83	-24.97
600	-0.11	-15.69	-15.74	23.46	-24.69	-24.43	-25.25	-25.37
650	-0.12	-15.31	-15.37	23.04	-25.04	-24.66	-25.90	-25.76
700	-0.12	-14.92	-14.99	22.62	-25.38	-24.89	-26.54	-26.15
750	-0.12	-14.62	-14.72	22.08	-25.84	-25.48	-27.40	-26.23
800	-0.12	-14.38	-14.50	21.38	-26.72	-25.87	-28.42	-26.81
850	-0.12	-14.23	-14.34	20.71	-27.64	-26.86	-29.86	-28.15
900	-0.13	-14.11	-14.22	20.15	-29.31	-27.57	-32.05	-30.45
950	-0.13	-14.03	-14.14	19.86	-31.21	-29.30	-36.23	-32.48
1000	-0.14	-14.00	-14.11	19.37	-34.11	-30.26	-43.38	-35.73
1100	-0.15	-14.02	-14.14	18.60	-40.54	-32.79	-38.09	-38.33
1200	-0.16	-14.17	-14.29	17.98	-34.09	-32.54	-29.79	-31.13
1300	-0.17	-14.38	-14.49	17.60	-28.30	-28.92	-25.59	-26.20
1400	-0.18	-14.59	-14.71	17.99	-25.19	-26.04	-23.53	-24.15
1500	-0.20	-14.74	-14.89	18.66	-23.26	-24.24	-22.31	-23.12
1600	-0.20	-14.78	-14.96	19.70	-22.43	-23.36	-21.89	-22.96
1700	-0.21	-14.73	-14.92	20.06	-22.32	-23.36	-22.03	-23.10
1800	-0.21	-14.59	-14.79	20.41	-22.85	-24.13	-22.96	-24.54
1900	-0.21	-14.39	-14.58	20.17	-23.83	-25.50	-23.94	-26.40
2000	-0.21	-14.19	-14.38	19.40	-25.25	-27.45	-24.78	-27.78
2050	-0.21	-14.10	-14.29	19.14	-25.93	-27.88	-25.05	-27.94
2150	-0.22	-13.99	-14.17	18.35	-27.83	-30.31	-25.38	-27.84
2200	-0.22	-13.97	-14.15	18.18	-29.04	-32.96	-25.24	-27.46
2250	-0.23	-14.00	-14.16	17.88	-29.96	-33.33	-25.65	-27.23
2300	-0.23	-14.03	-14.20	17.61	-31.42	-36.96	-25.21	-26.78
2400	-0.24	-14.24	-14.41	16.99	-33.72	-39.18	-25.15	-26.49
2500	-0.25	-14.64	-14.81	16.38	-34.65	-37.32	-24.86	-26.08
2600	-0.27	-15.32	-15.45	15.78	-34.43	-34.85	-25.93	-26.47
2700	-0.28	-16.18	-16.34	15.39	-33.45	-33.18	-27.14	-27.71
2800	-0.30	-17.44	-17.60	14.39	-32.98	-32.16	-27.91	-29.23
2900	-0.31	-19.15	-19.38	12.64	-32.47	-31.71	-28.15	-29.82
3000	-0.32	-21.72	-21.99	9.92	-31.22	-30.39	-29.11	-29.97

NOTES:

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at <https://www.minicircuits.com/terms/viewterm.html>



Bi-Directional Coupler

BDCH-15-272+

Typical Performance Data

Test Conditions: Input Power = +5 dbm, Temperature = +105°C, Configuration D.

Freq. (MHz)	I. Loss (dB) In - Out	Coupling (dB)		Directivity (dB) In - Fwd	Return Loss (dB)			
		In - Fwd	Out - Rev		In	Out	Fwd	Rev
50	-0.06	-35.54	-35.55	33.19	-33.46	-33.57	-33.31	-33.37
100	-0.08	-29.59	-29.59	30.65	-30.15	-30.28	-29.94	-30.17
150	-0.08	-26.13	-26.13	30.25	-30.16	-30.00	-29.47	-29.55
250	-0.08	-21.90	-21.89	30.08	-31.05	-30.92	-30.14	-29.86
300	-0.09	-20.46	-20.45	29.22	-29.80	-29.87	-29.10	-28.84
350	-0.09	-19.28	-19.27	27.84	-28.34	-28.38	-27.53	-27.35
400	-0.10	-18.31	-18.29	26.29	-26.67	-26.89	-25.84	-25.75
450	-0.10	-17.50	-17.47	25.38	-25.76	-25.77	-25.02	-25.01
500	-0.11	-16.81	-16.78	24.59	-24.85	-25.01	-24.77	-24.63
550	-0.12	-16.23	-16.18	23.90	-24.54	-24.70	-24.97	-24.83
600	-0.12	-15.74	-15.69	23.57	-24.43	-24.69	-25.37	-25.25
650	-0.13	-15.37	-15.31	23.19	-24.66	-25.04	-25.76	-25.90
700	-0.13	-14.99	-14.92	22.81	-24.89	-25.38	-26.15	-26.54
750	-0.13	-14.72	-14.62	22.38	-25.48	-25.84	-26.23	-27.40
800	-0.13	-14.50	-14.38	21.88	-25.87	-26.72	-26.81	-28.42
850	-0.14	-14.34	-14.23	21.50	-26.86	-27.64	-28.15	-29.86
900	-0.14	-14.22	-14.11	21.05	-27.57	-29.31	-30.45	-32.05
950	-0.15	-14.14	-14.03	20.75	-29.30	-31.21	-32.48	-36.23
1000	-0.15	-14.11	-14.00	20.31	-30.26	-34.11	-35.73	-43.38
1100	-0.16	-14.14	-14.02	19.88	-32.79	-40.54	-38.33	-38.09
1200	-0.17	-14.29	-14.17	19.65	-32.54	-34.09	-31.13	-29.79
1300	-0.19	-14.49	-14.38	19.59	-28.92	-28.30	-26.20	-25.59
1400	-0.20	-14.71	-14.59	19.87	-26.04	-25.19	-24.15	-23.53
1500	-0.22	-14.89	-14.74	20.28	-24.24	-23.26	-23.12	-22.31
1600	-0.22	-14.96	-14.78	20.72	-23.36	-22.43	-22.96	-21.89
1700	-0.23	-14.92	-14.73	20.72	-23.36	-22.32	-23.10	-22.03
1800	-0.23	-14.79	-14.59	20.24	-24.13	-22.85	-24.54	-22.96
1900	-0.23	-14.58	-14.39	19.66	-25.50	-23.83	-26.40	-23.94
2000	-0.23	-14.38	-14.19	18.90	-27.45	-25.25	-27.78	-24.78
2050	-0.23	-14.29	-14.10	18.75	-27.88	-25.93	-27.94	-25.05
2150	-0.24	-14.17	-13.99	18.19	-30.31	-27.83	-27.84	-25.38
2200	-0.24	-14.15	-13.97	18.08	-32.96	-29.04	-27.46	-25.24
2250	-0.24	-14.16	-14.00	17.81	-33.33	-29.96	-27.23	-25.65
2300	-0.25	-14.20	-14.03	17.72	-36.96	-31.42	-26.78	-25.21
2400	-0.26	-14.41	-14.24	17.38	-39.18	-33.72	-26.49	-25.15
2500	-0.27	-14.81	-14.64	16.99	-37.32	-34.65	-26.08	-24.86
2600	-0.29	-15.45	-15.32	16.41	-34.85	-34.43	-26.47	-25.93
2700	-0.30	-16.34	-16.18	15.77	-33.18	-33.45	-27.71	-27.14
2800	-0.31	-17.60	-17.44	14.59	-32.16	-32.98	-29.23	-27.91
2900	-0.32	-19.38	-19.15	12.63	-31.71	-32.47	-29.82	-28.15
3000	-0.33	-21.99	-21.72	9.77	-30.39	-31.22	-29.97	-29.11

NOTES:

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at <https://www.minicircuits.com/terms/viewterm.html>

