

2 Way-0° Power Splitter/Combiner

SBTC-2-107550X+

Typical Performance Data

TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = +25°C

FREQ. (MHz)	TOTAL LOSS ¹ (dB)		AMP. UNBAL. (dB)	ISOLATION (dB) 1-2	PHASE UNBAL. (deg.)	FREQ. (MHz)	VSWR (:1)		
	S-1	S-2					S	1	2
5.0	3.51	3.29	0.22	23.02	0.39	5.0	1.04	1.20	1.14
10.0	3.50	3.29	0.21	23.34	0.20	10.0	1.04	1.18	1.12
15.0	3.51	3.29	0.21	23.50	0.08	15.0	1.04	1.17	1.12
20.0	3.52	3.30	0.22	23.49	0.03	20.0	1.04	1.17	1.11
25.0	3.52	3.31	0.21	23.46	0.00	25.0	1.04	1.17	1.11
50.0	3.55	3.33	0.22	23.32	0.06	50.0	1.04	1.17	1.11
75.0	3.57	3.34	0.23	23.28	0.09	75.0	1.04	1.17	1.11
100.0	3.58	3.37	0.21	23.25	0.15	100.0	1.05	1.16	1.11
150.0	3.60	3.39	0.21	23.26	0.20	150.0	1.05	1.16	1.11
200.0	3.62	3.42	0.20	23.36	0.27	200.0	1.06	1.15	1.11
250.0	3.65	3.45	0.20	23.59	0.33	250.0	1.07	1.15	1.11
300.0	3.66	3.46	0.20	23.95	0.41	300.0	1.08	1.15	1.12
350.0	3.68	3.49	0.19	24.46	0.48	350.0	1.09	1.15	1.13
400.0	3.70	3.52	0.18	25.12	0.55	400.0	1.10	1.16	1.14
425.0	3.71	3.53	0.18	25.51	0.59	425.0	1.11	1.16	1.15
450.0	3.72	3.54	0.18	25.95	0.61	450.0	1.11	1.17	1.16
475.0	3.73	3.56	0.17	26.41	0.63	475.0	1.11	1.17	1.17
500.0	3.73	3.58	0.15	26.91	0.68	500.0	1.12	1.17	1.17
525.0	3.74	3.59	0.15	27.38	0.69	525.0	1.12	1.18	1.18
550.0	3.75	3.60	0.15	27.84	0.73	550.0	1.13	1.18	1.19
575.0	3.76	3.62	0.14	28.24	0.76	575.0	1.13	1.18	1.19
600.0	3.77	3.63	0.14	28.53	0.76	600.0	1.14	1.19	1.20
650.0	3.79	3.66	0.13	28.70	0.81	650.0	1.14	1.19	1.21
700.0	3.81	3.70	0.11	28.13	0.84	700.0	1.15	1.19	1.21
750.0	3.83	3.73	0.10	27.17	0.86	750.0	1.15	1.19	1.21
800.0	3.84	3.76	0.08	25.98	0.89	800.0	1.15	1.18	1.21
850.0	3.86	3.80	0.06	24.87	0.89	850.0	1.15	1.17	1.20
900.0	3.88	3.83	0.05	23.95	0.92	900.0	1.14	1.16	1.20
925.0	3.89	3.86	0.03	23.56	0.92	925.0	1.14	1.15	1.19
950.0	3.90	3.87	0.03	23.22	0.91	950.0	1.13	1.14	1.19
975.0	3.90	3.89	0.01	22.97	0.89	975.0	1.13	1.14	1.18
1000.0	3.91	3.91	0.00	22.75	0.89	1000.0	1.12	1.13	1.18
1050.0	3.93	3.93	0.00	22.60	0.97	1050.0	1.11	1.13	1.17
1100.0	3.95	3.97	0.02	22.54	0.82	1100.0	1.10	1.14	1.16
1150.0	3.97	4.02	0.05	22.85	0.78	1150.0	1.09	1.15	1.17
1200.0	4.00	4.07	0.07	23.55	0.73	1200.0	1.09	1.18	1.18
1250.0	4.03	4.12	0.09	24.66	0.68	1250.0	1.09	1.22	1.20
1300.0	4.08	4.18	0.10	26.44	0.60	1300.0	1.11	1.26	1.24
1400.0	4.21	4.35	0.14	33.63	0.37	1400.0	1.16	1.35	1.31
1500.0	4.41	4.58	0.16	30.91	0.09	1500.0	1.22	1.44	1.40
1600.0	4.67	4.87	0.20	22.89	0.25	1600.0	1.26	1.51	1.49
1700.0	5.00	5.21	0.21	18.52	0.63	1700.0	1.28	1.55	1.57
1800.0	5.37	5.59	0.22	15.70	1.05	1800.0	1.27	1.55	1.62
1900.0	5.76	5.99	0.23	13.78	1.63	1900.0	1.24	1.52	1.65
2000.0	6.15	6.37	0.22	12.41	1.93	2000.0	1.21	1.47	1.66
2100.0	6.54	6.73	0.18	11.44	2.28	2100.0	1.17	1.42	1.66
2200.0	6.94	7.08	0.14	10.67	2.67	2200.0	1.15	1.37	1.66
2300.0	7.40	7.47	0.06	10.01	2.88	2300.0	1.17	1.33	1.67
2400.0	7.96	7.94	0.02	9.37	2.92	2400.0	1.21	1.29	1.70
2500.0	8.63	8.53	0.10	8.72	2.43	2500.0	1.25	1.27	1.72
2600.0	9.42	9.22	0.20	8.13	1.70	2600.0	1.28	1.25	1.73

¹Total Loss = Insertion Loss+ 3dB Splitter Loss



2 Way-0° Power Splitter/Combiner

SBTC-2-107550X+

Typical Performance Data

TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = -40°C

FREQ. (MHz)	TOTAL LOSS ¹ (dB)		AMP. UNBAL. (dB)	ISOLATION (dB) 1-2	PHASE UNBAL. (deg.)	FREQ. (MHz)	VSWR (:1)		
	S-1	S-2					S	1	2
5.0	3.62	3.33	0.29	20.62	1.16	5.0	1.05	1.34	1.24
10.0	3.51	3.28	0.24	22.53	0.79	10.0	1.04	1.23	1.16
15.0	3.46	3.25	0.21	23.72	0.53	15.0	1.04	1.17	1.12
20.0	3.45	3.25	0.20	24.20	0.39	20.0	1.04	1.15	1.10
25.0	3.44	3.25	0.19	24.35	0.32	25.0	1.04	1.14	1.09
50.0	3.45	3.26	0.19	24.58	0.15	50.0	1.03	1.13	1.07
75.0	3.46	3.27	0.19	24.55	0.11	75.0	1.04	1.12	1.07
100.0	3.47	3.29	0.18	24.50	0.07	100.0	1.04	1.11	1.07
150.0	3.49	3.31	0.18	24.53	0.05	150.0	1.05	1.11	1.07
200.0	3.51	3.33	0.18	24.63	0.05	200.0	1.06	1.11	1.07
250.0	3.53	3.35	0.18	24.87	0.09	250.0	1.07	1.11	1.08
300.0	3.54	3.37	0.17	25.31	0.10	300.0	1.07	1.12	1.10
350.0	3.56	3.39	0.17	25.89	0.11	350.0	1.09	1.13	1.11
400.0	3.57	3.40	0.17	26.73	0.14	400.0	1.09	1.13	1.12
425.0	3.57	3.41	0.16	27.18	0.13	425.0	1.10	1.14	1.13
450.0	3.58	3.42	0.16	27.69	0.18	450.0	1.10	1.14	1.14
475.0	3.59	3.44	0.15	28.24	0.18	475.0	1.11	1.15	1.15
500.0	3.59	3.45	0.14	28.83	0.20	500.0	1.11	1.15	1.15
525.0	3.60	3.46	0.14	29.36	0.22	525.0	1.12	1.16	1.16
550.0	3.61	3.47	0.14	29.79	0.23	550.0	1.12	1.16	1.16
575.0	3.62	3.48	0.14	30.11	0.27	575.0	1.12	1.16	1.17
600.0	3.62	3.49	0.13	30.24	0.31	600.0	1.13	1.17	1.17
650.0	3.64	3.52	0.12	29.81	0.37	650.0	1.14	1.17	1.18
700.0	3.65	3.54	0.11	28.63	0.44	700.0	1.14	1.17	1.18
750.0	3.66	3.57	0.09	27.21	0.53	750.0	1.15	1.17	1.19
800.0	3.68	3.60	0.08	25.83	0.62	800.0	1.15	1.16	1.19
850.0	3.69	3.62	0.07	24.66	0.73	850.0	1.15	1.15	1.18
900.0	3.70	3.64	0.06	23.74	0.80	900.0	1.14	1.13	1.17
925.0	3.70	3.66	0.04	23.36	0.90	925.0	1.14	1.13	1.17
950.0	3.71	3.67	0.04	23.06	0.96	950.0	1.13	1.12	1.16
975.0	3.71	3.69	0.02	22.82	0.98	975.0	1.13	1.12	1.16
1000.0	3.72	3.70	0.02	22.63	1.02	1000.0	1.12	1.11	1.15
1050.0	3.73	3.73	0.00	22.56	1.09	1050.0	1.11	1.11	1.15
1100.0	3.74	3.75	0.01	22.57	1.32	1100.0	1.09	1.12	1.14
1150.0	3.75	3.79	0.04	22.96	1.49	1150.0	1.08	1.15	1.15
1200.0	3.77	3.83	0.06	23.77	1.65	1200.0	1.08	1.18	1.17
1250.0	3.80	3.87	0.07	25.02	1.80	1250.0	1.09	1.22	1.20
1300.0	3.84	3.92	0.08	26.99	2.00	1300.0	1.11	1.26	1.23
1400.0	3.95	4.06	0.11	34.87	2.45	1400.0	1.16	1.35	1.31
1500.0	4.12	4.26	0.13	29.32	2.94	1500.0	1.21	1.44	1.39
1600.0	4.36	4.52	0.16	22.03	3.50	1600.0	1.25	1.52	1.49
1700.0	4.66	4.84	0.18	17.90	4.10	1700.0	1.27	1.55	1.57
1800.0	5.00	5.18	0.18	15.19	4.75	1800.0	1.26	1.55	1.62
1900.0	5.36	5.54	0.18	13.32	5.49	1900.0	1.23	1.53	1.65
2000.0	5.74	5.89	0.16	11.99	6.10	2000.0	1.20	1.48	1.67
2100.0	6.11	6.23	0.11	11.02	6.68	2100.0	1.17	1.43	1.67
2200.0	6.49	6.56	0.07	10.27	7.35	2200.0	1.17	1.38	1.69
2300.0	6.95	6.94	0.02	9.60	7.85	2300.0	1.20	1.34	1.71
2400.0	7.52	7.42	0.10	8.94	8.21	2400.0	1.25	1.31	1.76
2500.0	8.16	7.98	0.18	8.25	8.00	2500.0	1.29	1.28	1.74
2600.0	8.99	8.71	0.29	7.67	7.64	2600.0	1.32	1.26	1.78

¹Total Loss = Insertion Loss+ 3dB Splitter Loss



2 Way-0° Power Splitter/Combiner

SBTC-2-107550X+

Typical Performance Data

TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = +85°C

FREQ. (MHz)	TOTAL LOSS ¹ (dB)		AMP. UNBAL. (dB)	ISOLATION (dB) 1-2	PHASE UNBAL. (deg.)	FREQ. (MHz)	VSWR (:1)		
	S-1	S-2					S	1	2
5.0	3.67	3.37	0.30	21.66	0.43	5.0	1.05	1.27	1.19
10.0	3.67	3.38	0.29	21.86	0.22	10.0	1.05	1.25	1.17
15.0	3.67	3.38	0.29	21.95	0.09	15.0	1.05	1.24	1.17
20.0	3.68	3.39	0.29	21.94	0.06	20.0	1.05	1.24	1.17
25.0	3.68	3.40	0.28	21.91	0.01	25.0	1.05	1.24	1.17
50.0	3.71	3.43	0.28	21.79	0.07	50.0	1.05	1.24	1.17
75.0	3.73	3.45	0.28	21.77	0.13	75.0	1.05	1.24	1.17
100.0	3.75	3.47	0.28	21.78	0.17	100.0	1.05	1.24	1.16
150.0	3.77	3.49	0.27	21.80	0.23	150.0	1.06	1.23	1.15
200.0	3.79	3.52	0.27	21.89	0.32	200.0	1.07	1.22	1.15
250.0	3.81	3.56	0.25	22.07	0.42	250.0	1.08	1.21	1.15
300.0	3.83	3.58	0.25	22.32	0.51	300.0	1.09	1.20	1.15
350.0	3.85	3.61	0.24	22.69	0.61	350.0	1.10	1.20	1.16
400.0	3.87	3.64	0.23	23.16	0.72	400.0	1.10	1.20	1.17
425.0	3.88	3.66	0.22	23.44	0.77	425.0	1.11	1.20	1.18
450.0	3.89	3.67	0.22	23.74	0.81	450.0	1.11	1.20	1.19
475.0	3.90	3.69	0.21	24.08	0.87	475.0	1.12	1.20	1.19
500.0	3.90	3.71	0.19	24.44	0.91	500.0	1.12	1.20	1.20
525.0	3.92	3.73	0.19	24.81	0.97	525.0	1.13	1.20	1.20
550.0	3.92	3.74	0.18	25.18	1.02	550.0	1.13	1.20	1.21
575.0	3.94	3.77	0.17	25.54	1.08	575.0	1.13	1.20	1.21
600.0	3.94	3.78	0.16	25.87	1.07	600.0	1.14	1.20	1.22
650.0	3.97	3.82	0.15	26.37	1.20	650.0	1.14	1.20	1.22
700.0	3.99	3.86	0.13	26.47	1.26	700.0	1.15	1.20	1.23
750.0	4.01	3.90	0.11	26.21	1.33	750.0	1.15	1.20	1.23
800.0	4.03	3.94	0.09	25.56	1.40	800.0	1.15	1.19	1.23
850.0	4.05	3.98	0.07	24.79	1.46	850.0	1.15	1.18	1.22
900.0	4.07	4.02	0.05	24.03	1.52	900.0	1.14	1.17	1.21
925.0	4.08	4.05	0.03	23.67	1.54	925.0	1.14	1.16	1.20
950.0	4.09	4.06	0.03	23.37	1.56	950.0	1.13	1.16	1.20
975.0	4.10	4.09	0.01	23.12	1.60	975.0	1.13	1.15	1.19
1000.0	4.11	4.12	0.01	22.91	1.62	1000.0	1.12	1.14	1.19
1050.0	4.15	4.15	0.01	22.73	1.78	1050.0	1.11	1.13	1.18
1100.0	4.16	4.20	0.04	22.61	1.68	1100.0	1.10	1.14	1.17
1150.0	4.19	4.25	0.06	22.87	1.69	1150.0	1.09	1.15	1.17
1200.0	4.23	4.32	0.09	23.46	1.68	1200.0	1.09	1.17	1.18
1250.0	4.27	4.38	0.11	24.46	1.72	1250.0	1.10	1.21	1.20
1300.0	4.32	4.45	0.13	26.07	1.67	1300.0	1.11	1.25	1.23
1400.0	4.48	4.65	0.17	33.30	1.55	1400.0	1.17	1.33	1.31
1500.0	4.69	4.91	0.21	36.24	1.39	1500.0	1.22	1.42	1.40
1600.0	4.98	5.23	0.25	24.63	1.18	1600.0	1.27	1.49	1.48
1700.0	5.33	5.62	0.29	19.67	0.91	1700.0	1.29	1.53	1.56
1800.0	5.73	6.03	0.30	16.62	0.59	1800.0	1.28	1.54	1.61
1900.0	6.14	6.47	0.33	14.60	0.07	1900.0	1.25	1.51	1.65
2000.0	6.55	6.87	0.33	13.14	0.14	2000.0	1.21	1.47	1.66
2100.0	6.94	7.26	0.32	12.10	0.49	2100.0	1.18	1.42	1.66
2200.0	7.34	7.63	0.29	11.30	0.79	2200.0	1.16	1.37	1.66
2300.0	7.79	8.04	0.25	10.61	1.02	2300.0	1.17	1.33	1.68
2400.0	8.31	8.51	0.20	9.98	1.11	2400.0	1.20	1.30	1.69
2500.0	8.94	9.06	0.12	9.33	0.69	2500.0	1.24	1.28	1.71
2600.0	9.67	9.74	0.08	8.74	0.14	2600.0	1.26	1.26	1.73

¹Total Loss = Insertion Loss+ 3dB Splitter Loss

