

2 Way-0° Power Splitter/Combiner SBTC-2-105075X+

Typical Performance Data

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

FREQUENCY (MHz)	TOTAL LOSS ¹ (dB)		AMPLITUDE UNBALANCE (dB)	ISOLATION (dB)	PHASE UNBALANCE (Deg)	FREQUENCY (MHz)	VSWR (:1)		
	S-1	S-2					S	1	2
10.0	3.67	3.42	0.25	39.12	1.29	10.0	1.22	1.10	1.08
20.0	3.57	3.39	0.19	38.91	0.71	20.0	1.23	1.08	1.07
30.0	3.56	3.38	0.18	38.82	0.45	30.0	1.23	1.08	1.07
40.0	3.56	3.38	0.18	38.69	0.32	40.0	1.24	1.08	1.06
50.0	3.56	3.38	0.18	38.60	0.25	50.0	1.24	1.08	1.06
60.0	3.56	3.38	0.18	38.50	0.20	60.0	1.24	1.08	1.06
70.0	3.56	3.39	0.17	38.44	0.14	70.0	1.25	1.08	1.06
80.0	3.57	3.39	0.18	38.36	0.12	80.0	1.25	1.08	1.07
90.0	3.57	3.40	0.17	38.29	0.08	90.0	1.24	1.08	1.07
100.0	3.57	3.40	0.17	38.25	0.05	100.0	1.24	1.08	1.07
150.0	3.59	3.41	0.18	37.76	0.02	150.0	1.24	1.08	1.08
200.0	3.61	3.43	0.18	36.87	0.04	200.0	1.24	1.09	1.09
250.0	3.61	3.44	0.17	36.19	0.10	250.0	1.22	1.10	1.10
300.0	3.62	3.45	0.17	35.48	0.12	300.0	1.21	1.11	1.10
350.0	3.63	3.46	0.17	34.74	0.16	350.0	1.19	1.11	1.11
400.0	3.62	3.47	0.15	34.17	0.19	400.0	1.17	1.11	1.12
425.0	3.64	3.48	0.16	33.88	0.20	425.0	1.16	1.11	1.12
450.0	3.64	3.48	0.16	33.58	0.24	450.0	1.15	1.12	1.12
475.0	3.64	3.48	0.16	33.33	0.27	475.0	1.13	1.12	1.13
500.0	3.64	3.50	0.14	33.09	0.28	500.0	1.12	1.12	1.13
525.0	3.65	3.50	0.15	32.91	0.35	525.0	1.11	1.12	1.13
550.0	3.65	3.51	0.14	32.70	0.36	550.0	1.10	1.12	1.14
575.0	3.66	3.52	0.14	32.49	0.33	575.0	1.09	1.13	1.14
600.0	3.67	3.53	0.14	32.31	0.41	600.0	1.07	1.13	1.14
650.0	3.70	3.56	0.14	32.03	0.38	650.0	1.06	1.14	1.15
700.0	3.72	3.60	0.12	31.77	0.40	700.0	1.06	1.15	1.16
750.0	3.77	3.64	0.13	31.63	0.40	750.0	1.08	1.16	1.16
800.0	3.81	3.68	0.13	31.47	0.40	800.0	1.10	1.16	1.17
850.0	3.85	3.73	0.12	31.38	0.30	850.0	1.12	1.17	1.17
900.0	3.89	3.78	0.11	31.38	0.42	900.0	1.14	1.17	1.17
925.0	3.91	3.80	0.11	31.38	0.40	925.0	1.15	1.17	1.16
950.0	3.93	3.82	0.11	31.39	0.40	950.0	1.16	1.17	1.16
1000.0	3.97	3.87	0.10	31.47	0.37	1000.0	1.17	1.16	1.15
1025.0	4.00	3.90	0.10	31.55	0.35	1025.0	1.18	1.15	1.14
1050.0	4.02	3.92	0.10	31.64	0.39	1050.0	1.18	1.15	1.14
1075.0	4.03	3.94	0.09	31.72	0.30	1075.0	1.18	1.14	1.13
1100.0	4.05	3.96	0.09	31.83	0.26	1100.0	1.18	1.12	1.12
1150.0	4.08	4.00	0.08	32.09	0.20	1150.0	1.18	1.10	1.09
1200.0	4.11	4.04	0.07	32.45	0.13	1200.0	1.17	1.07	1.06
1250.0	4.14	4.08	0.06	32.89	0.10	1250.0	1.16	1.04	1.04
1300.0	4.17	4.13	0.04	33.48	0.00	1300.0	1.15	1.01	1.03
1400.0	4.25	4.25	0.00	35.11	0.11	1400.0	1.14	1.07	1.09
1500.0	4.39	4.42	0.03	37.71	0.25	1500.0	1.19	1.16	1.17
1600.0	4.61	4.67	0.06	41.68	0.21	1600.0	1.30	1.24	1.26
1700.0	4.93	5.02	0.09	43.63	0.27	1700.0	1.43	1.31	1.31
1800.0	5.35	5.44	0.09	38.46	0.17	1800.0	1.61	1.36	1.35
1900.0	5.83	5.91	0.09	34.20	0.25	1900.0	1.78	1.38	1.36
2000.0	6.33	6.42	0.09	31.05	0.18	2000.0	1.96	1.38	1.37
2100.0	6.83	6.90	0.08	28.57	0.19	2100.0	2.12	1.35	1.33
2200.0	7.30	7.32	0.02	26.39	0.29	2200.0	2.25	1.33	1.25
2300.0	7.74	7.71	0.03	24.42	0.03	2300.0	2.37	1.31	1.23
2400.0	8.18	8.10	0.08	22.68	0.20	2400.0	2.47	1.29	1.20
2500.0	8.64	8.53	0.11	21.11	0.51	2500.0	2.55	1.28	1.26
2600.0	9.25	9.08	0.17	19.72	1.36	2600.0	2.65	1.25	1.25

¹Total Loss = Insertion Loss + 3dB Splitter Loss



2 Way-0° Power Splitter/Combiner SBTC-2-105075X+

Typical Performance Data

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

FREQUENCY (MHz)	TOTAL LOSS ¹ (dB)		AMPLITUDE UNBALANCE (dB)	ISOLATION (dB)	PHASE UNBALANCE (Deg)	FREQUENCY (MHz)	VSWR (:1)		
	S-1	S-2					S	1	2
10.0	3.65	3.42	0.23	40.29	0.26	10.0	1.20	1.09	1.08
20.0	3.65	3.42	0.23	40.29	0.07	20.0	1.21	1.09	1.08
30.0	3.67	3.43	0.24	40.29	0.02	30.0	1.21	1.09	1.08
40.0	3.67	3.44	0.23	40.28	0.05	40.0	1.21	1.09	1.08
50.0	3.68	3.44	0.24	40.25	0.08	50.0	1.21	1.09	1.08
60.0	3.69	3.45	0.24	40.16	0.10	60.0	1.21	1.09	1.08
70.0	3.70	3.47	0.23	40.10	0.13	70.0	1.21	1.09	1.08
80.0	3.70	3.47	0.23	39.95	0.17	80.0	1.21	1.09	1.08
90.0	3.71	3.48	0.23	39.81	0.19	90.0	1.21	1.09	1.08
100.0	3.71	3.47	0.24	39.63	0.19	100.0	1.21	1.09	1.08
150.0	3.74	3.50	0.24	38.78	0.32	150.0	1.21	1.10	1.09
200.0	3.75	3.52	0.23	37.82	0.41	200.0	1.21	1.11	1.10
250.0	3.76	3.54	0.22	36.89	0.54	250.0	1.20	1.11	1.11
300.0	3.77	3.56	0.21	36.03	0.67	300.0	1.19	1.12	1.11
350.0	3.77	3.57	0.20	35.24	0.79	350.0	1.17	1.12	1.12
400.0	3.78	3.58	0.20	34.55	0.96	400.0	1.16	1.12	1.13
425.0	3.78	3.59	0.19	34.24	1.04	425.0	1.15	1.12	1.13
450.0	3.79	3.60	0.19	33.93	1.10	450.0	1.14	1.12	1.13
475.0	3.79	3.61	0.18	33.66	1.21	475.0	1.13	1.12	1.13
500.0	3.80	3.62	0.18	33.41	1.27	500.0	1.12	1.12	1.14
525.0	3.81	3.63	0.18	33.18	1.36	525.0	1.11	1.13	1.14
550.0	3.81	3.64	0.17	32.96	1.45	550.0	1.10	1.13	1.14
575.0	3.83	3.66	0.17	32.76	1.51	575.0	1.10	1.13	1.15
600.0	3.84	3.67	0.17	32.58	1.62	600.0	1.09	1.13	1.15
650.0	3.87	3.71	0.16	32.28	1.71	650.0	1.08	1.14	1.16
700.0	3.90	3.75	0.15	32.04	1.86	700.0	1.09	1.15	1.16
750.0	3.95	3.80	0.15	31.88	2.02	750.0	1.10	1.16	1.17
800.0	3.99	3.85	0.14	31.74	2.13	800.0	1.11	1.17	1.17
850.0	4.04	3.93	0.11	31.75	2.18	850.0	1.13	1.18	1.17
900.0	4.09	3.95	0.14	31.68	2.37	900.0	1.15	1.18	1.17
925.0	4.11	3.98	0.13	31.70	2.41	925.0	1.15	1.18	1.17
950.0	4.14	4.01	0.13	31.73	2.44	950.0	1.16	1.17	1.16
1000.0	4.18	4.06	0.12	31.84	2.51	1000.0	1.17	1.17	1.15
1025.0	4.21	4.10	0.11	31.91	2.54	1025.0	1.17	1.16	1.15
1050.0	4.24	4.12	0.12	32.04	2.66	1050.0	1.18	1.15	1.14
1075.0	4.25	4.14	0.11	32.12	2.59	1075.0	1.18	1.14	1.13
1100.0	4.27	4.17	0.10	32.25	2.62	1100.0	1.18	1.13	1.12
1150.0	4.31	4.22	0.09	32.53	2.67	1150.0	1.17	1.10	1.10
1200.0	4.34	4.27	0.07	32.91	2.72	1200.0	1.17	1.08	1.07
1250.0	4.38	4.32	0.06	33.40	2.80	1250.0	1.16	1.04	1.05
1300.0	4.41	4.37	0.04	34.03	2.86	1300.0	1.15	1.01	1.05
1400.0	4.51	4.51	0.00	35.74	2.99	1400.0	1.15	1.07	1.10
1500.0	4.66	4.70	0.04	38.45	3.13	1500.0	1.20	1.16	1.17
1600.0	4.90	4.97	0.07	42.22	3.43	1600.0	1.30	1.24	1.25
1700.0	5.24	5.34	0.10	42.72	3.60	1700.0	1.44	1.31	1.31
1800.0	5.66	5.77	0.12	37.90	3.99	1800.0	1.59	1.36	1.35
1900.0	6.16	6.26	0.11	33.97	4.23	1900.0	1.76	1.38	1.36
2000.0	6.67	6.77	0.10	31.01	4.48	2000.0	1.91	1.38	1.35
2100.0	7.18	7.26	0.08	28.69	4.64	2100.0	2.06	1.36	1.31
2200.0	7.65	7.69	0.04	26.64	4.95	2200.0	2.17	1.34	1.28
2300.0	8.09	8.08	0.01	24.76	5.27	2300.0	2.27	1.32	1.24
2400.0	8.50	8.46	0.04	23.13	5.71	2400.0	2.35	1.29	1.22
2500.0	8.95	8.89	0.05	21.56	6.43	2500.0	2.42	1.26	1.21
2600.0	9.52	9.41	0.11	20.22	7.34	2600.0	2.50	1.24	1.22

¹Total Loss = Insertion Loss + 3dB Splitter Loss



2 Way-0° Power Splitter/Combiner SBTC-2-105075X+

Typical Performance Data

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

FREQUENCY (MHz)	TOTAL LOSS ¹ (dB)		AMPLITUDE UNBALANCE (dB)	ISOLATION (dB)	PHASE UNBALANCE (Deg)	FREQUENCY (MHz)	VSWR (:1)		
	S-1	S-2					S	1	2
10.0	3.83	3.53	0.30	43.01	0.46	10.0	1.17	1.10	1.09
20.0	3.81	3.52	0.29	43.14	0.18	20.0	1.17	1.10	1.09
30.0	3.82	3.54	0.28	43.15	0.07	30.0	1.17	1.10	1.09
40.0	3.83	3.54	0.29	43.13	0.01	40.0	1.17	1.10	1.09
50.0	3.83	3.55	0.28	43.07	0.07	50.0	1.17	1.10	1.09
60.0	3.84	3.56	0.28	42.98	0.09	60.0	1.17	1.10	1.09
70.0	3.85	3.56	0.29	42.81	0.14	70.0	1.17	1.10	1.09
80.0	3.86	3.57	0.29	42.52	0.18	80.0	1.17	1.10	1.09
90.0	3.86	3.58	0.28	42.24	0.22	90.0	1.17	1.11	1.09
100.0	3.87	3.58	0.29	41.88	0.24	100.0	1.17	1.11	1.09
150.0	3.89	3.62	0.27	40.22	0.34	150.0	1.17	1.11	1.10
200.0	3.91	3.64	0.27	38.97	0.48	200.0	1.17	1.12	1.11
250.0	3.92	3.66	0.26	37.77	0.61	250.0	1.16	1.12	1.11
300.0	3.93	3.68	0.25	36.63	0.78	300.0	1.16	1.13	1.12
350.0	3.94	3.70	0.24	35.73	0.96	350.0	1.15	1.13	1.13
400.0	3.95	3.72	0.23	34.99	1.12	400.0	1.14	1.13	1.13
425.0	3.96	3.73	0.23	34.65	1.21	425.0	1.13	1.12	1.13
450.0	3.96	3.74	0.22	34.34	1.27	450.0	1.12	1.12	1.14
475.0	3.97	3.76	0.21	34.05	1.41	475.0	1.12	1.12	1.14
500.0	3.98	3.77	0.21	33.78	1.50	500.0	1.11	1.12	1.14
525.0	3.99	3.78	0.21	33.58	1.60	525.0	1.11	1.13	1.14
550.0	4.00	3.80	0.20	33.36	1.70	550.0	1.11	1.13	1.14
575.0	4.01	3.82	0.19	33.18	1.79	575.0	1.10	1.13	1.15
600.0	4.03	3.84	0.19	33.00	1.88	600.0	1.10	1.13	1.15
650.0	4.06	3.88	0.18	32.71	2.06	650.0	1.11	1.14	1.15
700.0	4.10	3.93	0.17	32.52	2.21	700.0	1.11	1.15	1.16
750.0	4.15	3.99	0.16	32.40	2.39	750.0	1.13	1.16	1.16
800.0	4.20	4.05	0.15	32.28	2.51	800.0	1.14	1.17	1.17
850.0	4.24	4.10	0.14	32.23	2.60	850.0	1.15	1.17	1.17
900.0	4.30	4.18	0.12	32.28	2.64	900.0	1.16	1.17	1.16
925.0	4.32	4.20	0.12	32.31	2.85	925.0	1.17	1.17	1.16
950.0	4.35	4.23	0.12	32.35	2.90	950.0	1.18	1.17	1.16
1000.0	4.40	4.29	0.11	32.49	3.08	1000.0	1.19	1.16	1.15
1025.0	4.43	4.33	0.10	32.59	3.17	1025.0	1.19	1.16	1.14
1050.0	4.46	4.36	0.10	32.71	3.21	1050.0	1.19	1.15	1.13
1075.0	4.47	4.39	0.08	32.85	3.25	1075.0	1.19	1.14	1.12
1100.0	4.49	4.42	0.07	32.98	3.27	1100.0	1.19	1.13	1.12
1150.0	4.53	4.48	0.05	33.33	3.38	1150.0	1.18	1.11	1.10
1200.0	4.57	4.53	0.04	33.77	3.48	1200.0	1.17	1.08	1.07
1250.0	4.60	4.59	0.01	34.30	3.64	1250.0	1.16	1.05	1.06
1300.0	4.64	4.65	0.01	35.01	3.72	1300.0	1.16	1.02	1.05
1400.0	4.75	4.81	0.06	36.98	3.94	1400.0	1.16	1.07	1.10
1500.0	4.91	5.02	0.11	39.86	4.22	1500.0	1.21	1.15	1.17
1600.0	5.15	5.31	0.16	43.76	4.62	1600.0	1.32	1.23	1.25
1700.0	5.49	5.69	0.20	42.64	5.07	1700.0	1.45	1.30	1.31
1800.0	5.91	6.14	0.23	37.73	5.42	1800.0	1.60	1.35	1.34
1900.0	6.39	6.62	0.23	34.14	5.84	1900.0	1.76	1.37	1.35
2000.0	6.89	7.12	0.23	31.39	6.18	2000.0	1.90	1.37	1.33
2100.0	7.36	7.60	0.24	29.15	6.54	2100.0	2.04	1.35	1.30
2200.0	7.81	8.02	0.21	27.22	6.89	2200.0	2.15	1.32	1.27
2300.0	8.22	8.41	0.19	25.43	7.35	2300.0	2.25	1.30	1.23
2400.0	8.60	8.78	0.18	23.86	7.83	2400.0	2.33	1.28	1.21
2500.0	8.98	9.15	0.17	22.37	8.56	2500.0	2.41	1.26	1.21
2600.0	9.47	9.62	0.15	21.06	9.40	2600.0	2.48	1.24	1.21

¹Total Loss = Insertion Loss + 3dB Splitter Loss

