

2 Way-0° Power Splitter/Combiner

SBTC-2-10-75X+

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	3.74	3.43	0.31	38.17	0.40	10.0	1.04	1.33	1.25
20.0	3.74	3.43	0.31	40.42	0.14	20.0	1.01	1.32	1.24
30.0	3.75	3.44	0.31	40.25	0.07	30.0	1.01	1.32	1.24
40.0	3.75	3.44	0.31	39.82	0.04	40.0	1.01	1.31	1.24
50.0	3.76	3.45	0.31	39.20	0.01	50.0	1.02	1.31	1.24
60.0	3.76	3.45	0.31	38.60	0.00	60.0	1.02	1.31	1.24
70.0	3.77	3.46	0.31	38.09	0.04	70.0	1.03	1.31	1.24
80.0	3.77	3.46	0.31	37.71	0.10	80.0	1.04	1.31	1.24
90.0	3.78	3.47	0.31	37.33	0.06	90.0	1.05	1.31	1.24
100.0	3.78	3.47	0.31	36.86	0.09	100.0	1.05	1.31	1.24
150.0	3.80	3.49	0.31	35.41	0.16	150.0	1.08	1.30	1.22
200.0	3.81	3.51	0.30	34.69	0.23	200.0	1.11	1.28	1.23
250.0	3.82	3.52	0.30	33.78	0.33	250.0	1.14	1.27	1.25
300.0	3.83	3.54	0.29	31.91	0.42	300.0	1.16	1.26	1.25
350.0	3.83	3.57	0.26	30.17	0.52	350.0	1.18	1.25	1.23
400.0	3.84	3.59	0.25	29.14	0.62	400.0	1.19	1.24	1.24
450.0	3.86	3.61	0.25	28.73	0.69	450.0	1.20	1.23	1.26
475.0	3.89	3.62	0.27	28.37	0.76	475.0	1.20	1.23	1.27
500.0	3.88	3.64	0.24	28.42	0.77	500.0	1.21	1.22	1.27
550.0	3.90	3.66	0.24	27.43	0.84	550.0	1.21	1.22	1.25
600.0	3.93	3.70	0.23	26.12	0.91	600.0	1.22	1.22	1.25
650.0	3.96	3.73	0.23	25.28	1.01	650.0	1.22	1.21	1.26
700.0	3.99	3.75	0.24	24.90	1.12	700.0	1.21	1.22	1.28
750.0	4.02	3.77	0.25	24.43	1.27	750.0	1.20	1.22	1.27
800.0	4.04	3.81	0.23	23.64	1.42	800.0	1.17	1.22	1.25
850.0	4.05	3.83	0.22	22.66	1.50	850.0	1.16	1.23	1.25
900.0	4.08	3.87	0.21	21.80	1.55	900.0	1.14	1.24	1.26
925.0	4.11	3.88	0.23	21.56	1.37	925.0	1.13	1.25	1.26
950.0	4.11	3.90	0.21	21.36	1.53	950.0	1.12	1.26	1.26
975.0	4.14	3.91	0.23	21.01	1.44	975.0	1.10	1.26	1.25
1000.0	4.14	3.93	0.21	20.93	1.51	1000.0	1.09	1.27	1.24
1025.0	4.17	3.94	0.23	20.67	1.49	1025.0	1.08	1.28	1.24
1050.0	4.17	3.96	0.21	20.27	1.40	1050.0	1.07	1.29	1.24
1075.0	4.19	3.97	0.22	20.21	1.42	1075.0	1.06	1.30	1.24
1100.0	4.20	4.00	0.20	19.64	1.36	1100.0	1.05	1.30	1.24
1200.0	4.25	4.07	0.18	19.05	1.17	1200.0	1.00	1.34	1.26
1300.0	4.31	4.16	0.16	19.18	1.02	1300.0	1.02	1.38	1.29
1400.0	4.37	4.23	0.14	19.44	1.15	1400.0	1.04	1.42	1.32
1500.0	4.41	4.32	0.08	20.37	1.37	1500.0	1.04	1.46	1.34
1600.0	4.49	4.47	0.02	22.35	1.65	1600.0	1.06	1.50	1.36
1700.0	4.68	4.68	0.00	24.09	1.87	1700.0	1.07	1.55	1.39
1800.0	4.99	4.95	0.04	23.16	1.95	1800.0	1.09	1.61	1.44
1900.0	5.27	5.12	0.15	21.07	1.44	1900.0	1.11	1.68	1.52
2000.0	5.47	5.13	0.34	19.25	1.42	2000.0	1.15	1.77	1.63
2100.0	5.42	5.10	0.33	18.21	1.14	2100.0	1.19	1.87	1.77
2200.0	5.32	4.95	0.37	17.84	0.90	2200.0	1.20	1.95	1.87
2300.0	5.31	4.90	0.42	17.92	1.42	2300.0	1.19	2.01	1.94
2400.0	5.33	5.09	0.25	17.27	1.29	2400.0	1.16	2.04	1.93
2500.0	5.72	5.67	0.06	15.76	0.76	2500.0	1.16	2.07	1.92
2600.0	6.26	6.20	0.06	14.03	0.39	2600.0	1.17	2.09	1.84
2700.0	7.25	6.85	0.40	12.30	2.05	2700.0	1.19	2.09	1.76
2800.0	8.14	7.49	0.65	11.31	5.41	2800.0	1.23	2.08	1.68
2900.0	8.80	7.68	1.12	10.84	5.96	2900.0	1.25	2.09	1.65
3000.0	9.09	7.36	1.73	10.47	5.76	3000.0	1.28	2.08	1.64

¹Total Loss = Insertion Loss + 3dB Splitter Loss



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2 Way-0° Power Splitter/Combiner

SBTC-2-10-75X+

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	3.59	3.36	0.23	32.58	1.51	10.0	1.08	1.33	1.24
20.0	3.53	3.33	0.20	39.16	0.73	20.0	1.05	1.26	1.20
30.0	3.52	3.32	0.20	44.50	0.45	30.0	1.05	1.24	1.18
40.0	3.52	3.33	0.19	50.02	0.33	40.0	1.05	1.23	1.17
50.0	3.53	3.33	0.20	54.11	0.24	50.0	1.06	1.23	1.16
60.0	3.53	3.33	0.20	52.55	0.23	60.0	1.07	1.22	1.16
70.0	3.53	3.33	0.20	48.97	0.19	70.0	1.07	1.22	1.15
80.0	3.53	3.33	0.20	46.41	0.13	80.0	1.07	1.22	1.16
90.0	3.54	3.34	0.20	44.29	0.17	90.0	1.06	1.21	1.16
100.0	3.54	3.34	0.20	42.54	0.12	100.0	1.06	1.21	1.16
150.0	3.56	3.36	0.20	38.32	0.09	150.0	1.08	1.20	1.18
200.0	3.57	3.36	0.21	36.49	0.09	200.0	1.10	1.20	1.17
250.0	3.58	3.38	0.20	35.13	0.07	250.0	1.11	1.21	1.21
300.0	3.59	3.39	0.20	33.05	0.08	300.0	1.14	1.22	1.22
350.0	3.60	3.41	0.19	30.81	0.09	350.0	1.16	1.24	1.21
400.0	3.61	3.43	0.18	29.35	0.11	400.0	1.17	1.25	1.23
450.0	3.63	3.44	0.19	28.71	0.17	450.0	1.20	1.25	1.27
475.0	3.65	3.45	0.20	28.30	0.15	475.0	1.21	1.26	1.28
500.0	3.64	3.46	0.18	28.43	0.22	500.0	1.21	1.26	1.29
550.0	3.66	3.48	0.18	27.50	0.29	550.0	1.24	1.26	1.28
600.0	3.68	3.50	0.18	26.04	0.35	600.0	1.24	1.27	1.27
650.0	3.70	3.52	0.18	24.95	0.38	650.0	1.25	1.27	1.30
700.0	3.74	3.54	0.20	24.30	0.37	700.0	1.25	1.27	1.31
750.0	3.75	3.55	0.20	23.71	0.34	750.0	1.22	1.28	1.30
800.0	3.76	3.58	0.18	22.91	0.30	800.0	1.19	1.28	1.28
850.0	3.77	3.60	0.17	21.80	0.32	850.0	1.15	1.28	1.27
900.0	3.79	3.63	0.16	20.82	0.43	900.0	1.12	1.28	1.27
925.0	3.82	3.63	0.19	20.57	0.68	925.0	1.11	1.28	1.26
950.0	3.81	3.65	0.16	20.29	0.57	950.0	1.09	1.28	1.25
975.0	3.84	3.65	0.19	19.91	0.73	975.0	1.07	1.28	1.24
1000.0	3.84	3.67	0.17	19.82	0.76	1000.0	1.05	1.28	1.22
1025.0	3.87	3.68	0.19	19.58	0.81	1025.0	1.03	1.28	1.21
1050.0	3.87	3.69	0.18	19.21	0.98	1050.0	1.02	1.28	1.20
1075.0	3.89	3.70	0.19	19.14	0.98	1075.0	1.02	1.29	1.19
1100.0	3.90	3.72	0.18	18.60	1.13	1100.0	1.03	1.29	1.19
1200.0	3.95	3.79	0.16	18.04	1.58	1200.0	1.09	1.31	1.18
1300.0	4.01	3.86	0.15	18.26	2.05	1300.0	1.1	1.33	1.21
1400.0	4.05	3.92	0.13	18.67	2.31	1400.0	1.09	1.38	1.28
1500.0	4.06	3.99	0.07	19.81	2.45	1500.0	1.06	1.47	1.39
1600.0	4.13	4.12	0.01	22.10	2.45	1600.0	1.02	1.58	1.52
1700.0	4.31	4.33	0.02	24.23	2.42	1700.0	1.02	1.69	1.64
1800.0	4.65	4.66	0.01	22.90	2.63	1800.0	1.02	1.79	1.71
1900.0	4.92	4.78	0.14	20.52	3.48	1900.0	1.04	1.84	1.73
2000.0	5.09	4.75	0.35	18.74	3.63	2000.0	1.06	1.87	1.69
2100.0	5.00	4.65	0.35	17.87	4.37	2100.0	1.14	1.88	1.64
2200.0	4.89	4.46	0.43	17.83	6.68	2200.0	1.24	1.91	1.59
2300.0	4.89	4.46	0.43	18.20	7.81	2300.0	1.3	1.94	1.63
2400.0	4.88	4.61	0.28	17.35	8.29	2400.0	1.36	1.99	1.75
2500.0	5.27	5.21	0.06	15.03	7.63	2500.0	1.37	2.1	1.99
2600.0	5.87	5.92	0.05	12.92	7.90	2600.0	1.39	2.25	2.26
2700.0	6.99	6.66	0.33	11.17	5.86	2700.0	1.3	2.33	2.48
2800.0	7.93	7.38	0.55	10.21	2.37	2800.0	1.17	2.37	2.5
2900.0	8.43	7.51	0.92	9.87	2.21	2900.0	1.05	2.34	2.35
3000.0	8.56	6.98	1.58	9.60	2.82	3000.0	1.23	2.25	2.16

¹Total Loss = Insertion Loss + 3dB Splitter Loss



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2 Way-0° Power Splitter/Combiner

SBTC-2-10-75X+

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	3.86	3.51	0.35	35.73	0.40	10.0	1.05	1.38	1.28
20.0	3.86	3.50	0.36	36.56	0.16	20.0	1.04	1.36	1.27
30.0	3.88	3.52	0.36	36.31	0.10	30.0	1.04	1.36	1.28
40.0	3.88	3.53	0.35	35.98	0.07	40.0	1.04	1.36	1.29
50.0	3.88	3.53	0.35	35.59	0.02	50.0	1.05	1.36	1.30
60.0	3.89	3.54	0.35	35.31	0.05	60.0	1.06	1.36	1.30
70.0	3.89	3.54	0.35	35.03	0.01	70.0	1.06	1.36	1.30
80.0	3.90	3.54	0.36	34.82	0.06	80.0	1.07	1.36	1.30
90.0	3.91	3.55	0.36	34.71	0.01	90.0	1.08	1.36	1.30
100.0	3.91	3.56	0.35	34.51	0.06	100.0	1.08	1.35	1.29
150.0	3.92	3.58	0.34	33.74	0.10	150.0	1.09	1.34	1.25
200.0	3.92	3.59	0.33	33.30	0.18	200.0	1.11	1.32	1.26
250.0	3.93	3.62	0.31	32.61	0.29	250.0	1.15	1.30	1.27
300.0	3.94	3.64	0.30	30.96	0.41	300.0	1.17	1.27	1.25
350.0	3.95	3.66	0.29	29.46	0.52	350.0	1.17	1.25	1.24
400.0	3.96	3.69	0.27	28.68	0.64	400.0	1.19	1.24	1.25
450.0	3.98	3.72	0.26	28.39	0.73	450.0	1.19	1.22	1.26
475.0	4.01	3.72	0.29	28.05	0.78	475.0	1.19	1.22	1.26
500.0	4.01	3.75	0.26	28.06	0.81	500.0	1.19	1.21	1.26
550.0	4.03	3.78	0.25	27.15	0.92	550.0	1.20	1.20	1.25
600.0	4.06	3.82	0.24	26.03	0.99	600.0	1.20	1.20	1.24
650.0	4.08	3.85	0.23	25.37	1.11	650.0	1.20	1.20	1.25
700.0	4.12	3.87	0.24	25.11	1.24	700.0	1.20	1.20	1.27
750.0	4.14	3.90	0.24	24.72	1.39	750.0	1.19	1.20	1.25
800.0	4.17	3.94	0.23	24.01	1.59	800.0	1.17	1.21	1.24
850.0	4.18	3.97	0.21	23.09	1.70	850.0	1.17	1.22	1.25
900.0	4.21	4.01	0.20	22.26	1.79	900.0	1.16	1.23	1.27
925.0	4.24	4.02	0.22	22.03	1.61	925.0	1.15	1.24	1.27
950.0	4.24	4.04	0.20	21.85	1.81	950.0	1.14	1.25	1.26
975.0	4.26	4.05	0.21	21.48	1.69	975.0	1.13	1.26	1.25
1000.0	4.27	4.08	0.19	21.41	1.77	1000.0	1.12	1.27	1.25
1025.0	4.30	4.09	0.21	21.16	1.77	1025.0	1.11	1.28	1.25
1050.0	4.30	4.11	0.19	20.73	1.74	1050.0	1.11	1.29	1.25
1075.0	4.32	4.12	0.20	20.66	1.77	1075.0	1.1	1.3	1.26
1100.0	4.32	4.15	0.17	20.08	1.75	1100.0	1.09	1.31	1.26
1200.0	4.37	4.23	0.14	19.47	1.64	1200.0	1.03	1.35	1.28
1300.0	4.44	4.31	0.13	19.54	1.57	1300.0	1.02	1.39	1.3
1400.0	4.50	4.39	0.11	19.72	1.82	1400.0	1.01	1.42	1.33
1500.0	4.55	4.49	0.05	20.60	2.08	1500.0	1.03	1.45	1.32
1600.0	4.64	4.64	0.00	22.49	2.42	1600.0	1.06	1.47	1.33
1700.0	4.83	4.85	0.02	24.10	2.70	1700.0	1.09	1.5	1.33
1800.0	5.13	5.11	0.02	23.29	2.89	1800.0	1.13	1.54	1.38
1900.0	5.41	5.28	0.13	21.29	2.48	1900.0	1.17	1.62	1.47
2000.0	5.61	5.30	0.31	19.50	2.45	2000.0	1.22	1.72	1.61
2100.0	5.57	5.27	0.31	18.44	2.37	2100.0	1.27	1.83	1.8
2200.0	5.47	5.15	0.32	18.10	0.69	2200.0	1.27	1.94	1.93
2300.0	5.48	5.12	0.37	18.22	0.12	2300.0	1.24	2.01	2
2400.0	5.50	5.32	0.19	17.65	0.24	2400.0	1.18	2.03	1.96
2500.0	5.87	5.89	0.01	16.27	0.68	2500.0	1.15	2.05	1.9
2600.0	6.39	6.39	0.00	14.59	1.30	2600.0	1.17	2.05	1.75
2700.0	7.33	7.01	0.32	12.82	3.88	2700.0	1.24	2.03	1.64
2800.0	8.19	7.60	0.59	11.80	7.32	2800.0	1.3	2.02	1.57
2900.0	8.83	7.75	1.08	11.30	8.20	2900.0	1.34	2.04	1.58
3000.0	9.13	7.44	1.69	10.89	8.11	3000.0	1.35	2.06	1.63

¹Total Loss = Insertion Loss + 3dB Splitter Loss



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