

# 2 Way-0° Power Splitter/Combiner

# SBTC-2-10X+

## Typical Performance Data

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

FREQUENCY (MHz)	TOTAL LOSS <sup>1</sup> (dB)		AMPLITUDE UNBALANCE (dB)	ISOLATION (dB)	PHASE UNBALANCE (Deg)	FREQUENCY (MHz)	VSWR (:1)		
	S-1	S-2					S	1	2
	5.0	3.25					3.10	0.15	31.14
10.0	3.26	3.13	0.13	32.33	0.28	10.0	1.02	1.15	1.10
20.0	3.25	3.12	0.13	32.53	0.09	20.0	1.02	1.14	1.10
30.0	3.25	3.12	0.13	32.15	0.02	30.0	1.02	1.14	1.10
40.0	3.26	3.12	0.13	31.86	0.03	40.0	1.02	1.14	1.10
50.0	3.26	3.13	0.14	31.64	0.05	50.0	1.02	1.14	1.10
100.0	3.29	3.15	0.14	30.58	0.14	100.0	1.03	1.14	1.10
150.0	3.32	3.18	0.14	29.38	0.19	150.0	1.03	1.13	1.10
200.0	3.33	3.20	0.13	28.13	0.28	200.0	1.04	1.12	1.10
250.0	3.35	3.22	0.13	27.01	0.36	250.0	1.04	1.11	1.09
300.0	3.36	3.24	0.12	25.87	0.42	300.0	1.05	1.10	1.09
350.0	3.37	3.26	0.11	24.88	0.49	350.0	1.05	1.09	1.08
400.0	3.39	3.28	0.10	24.03	0.59	400.0	1.06	1.07	1.08
450.0	3.40	3.31	0.09	23.29	0.69	450.0	1.06	1.06	1.07
500.0	3.42	3.33	0.08	22.59	0.76	500.0	1.07	1.05	1.07
550.0	3.43	3.36	0.07	22.03	0.83	550.0	1.07	1.04	1.07
600.0	3.45	3.39	0.06	21.55	0.89	600.0	1.08	1.03	1.07
650.0	3.48	3.42	0.05	21.10	0.95	650.0	1.08	1.03	1.07
700.0	3.50	3.45	0.04	20.73	0.98	700.0	1.09	1.04	1.08
750.0	3.52	3.49	0.03	20.39	1.05	750.0	1.09	1.05	1.09
800.0	3.54	3.53	0.02	20.10	1.09	800.0	1.10	1.07	1.10
850.0	3.58	3.57	0.01	19.86	1.10	850.0	1.10	1.09	1.11
900.0	3.61	3.62	0.01	19.66	1.12	900.0	1.11	1.11	1.12
950.0	3.64	3.67	0.03	19.52	1.12	950.0	1.11	1.13	1.13
1000.0	3.68	3.72	0.04	19.40	1.13	1000.0	1.11	1.14	1.14
1100.0	3.77	3.84	0.07	19.21	1.12	1100.0	1.12	1.18	1.17
1200.0	3.88	3.97	0.10	19.13	1.03	1200.0	1.12	1.22	1.19
1300.0	4.02	4.13	0.12	19.08	0.89	1300.0	1.13	1.26	1.22
1400.0	4.19	4.33	0.13	19.03	0.70	1400.0	1.12	1.29	1.24
1500.0	4.42	4.56	0.14	18.93	0.48	1500.0	1.12	1.32	1.26
1600.0	4.70	4.84	0.14	18.73	0.13	1600.0	1.12	1.35	1.27
1700.0	5.07	5.19	0.12	18.52	0.13	1700.0	1.13	1.39	1.29
1800.0	5.54	5.63	0.08	18.42	0.45	1800.0	1.16	1.43	1.30
1900.0	6.14	6.16	0.02	18.55	0.66	1900.0	1.20	1.47	1.32
2000.0	6.90	6.81	0.09	18.57	0.75	2000.0	1.26	1.52	1.34

<sup>1</sup>Total Loss = Insertion Loss + 3dB Splitter Loss

# 2 Way-0° Power Splitter/Combiner

# SBTC-2-10X+

## Typical Performance Data

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

FREQUENCY (MHz)	TOTAL LOSS <sup>1</sup> (dB)		AMPLITUDE UNBALANCE (dB)	ISOLATION (dB)	PHASE UNBALANCE (Deg)	FREQUENCY (MHz)	VSWR (:1)		
	S-1	S-2					S	1	2
5.0	3.27	3.10	0.17	26.45	1.05	5.0	1.05	1.23	1.17
10.0	3.22	3.11	0.11	30.18	0.73	10.0	1.03	1.16	1.11
20.0	3.18	3.09	0.09	33.64	0.35	20.0	1.02	1.12	1.08
30.0	3.17	3.08	0.09	34.82	0.18	30.0	1.02	1.11	1.07
40.0	3.17	3.09	0.09	35.53	0.13	40.0	1.02	1.11	1.07
50.0	3.18	3.09	0.09	36.05	0.06	50.0	1.02	1.10	1.07
100.0	3.20	3.11	0.09	33.70	0.04	100.0	1.06	1.11	1.08
150.0	3.22	3.13	0.09	30.47	0.08	150.0	1.05	1.10	1.07
200.0	3.23	3.14	0.09	29.34	0.13	200.0	1.05	1.08	1.07
250.0	3.25	3.16	0.09	27.79	0.18	250.0	1.07	1.09	1.08
300.0	3.25	3.17	0.08	25.82	0.22	300.0	1.08	1.07	1.06
350.0	3.27	3.19	0.08	24.65	0.28	350.0	1.09	1.07	1.06
400.0	3.27	3.20	0.07	23.94	0.34	400.0	1.08	1.05	1.05
450.0	3.28	3.22	0.06	23.22	0.38	450.0	1.09	1.04	1.05
500.0	3.29	3.24	0.05	22.52	0.42	500.0	1.10	1.03	1.05
550.0	3.30	3.26	0.04	21.93	0.44	550.0	1.10	1.02	1.05
600.0	3.31	3.29	0.03	21.43	0.45	600.0	1.10	1.02	1.06
650.0	3.33	3.31	0.02	21.10	0.50	650.0	1.10	1.03	1.07
700.0	3.34	3.33	0.01	20.80	0.51	700.0	1.10	1.04	1.08
750.0	3.36	3.36	0.00	20.33	0.54	750.0	1.11	1.05	1.09
800.0	3.38	3.39	0.01	19.99	0.51	800.0	1.12	1.07	1.09
850.0	3.40	3.43	0.03	19.85	0.49	850.0	1.11	1.09	1.11
900.0	3.43	3.47	0.04	19.62	0.48	900.0	1.12	1.11	1.12
950.0	3.45	3.51	0.06	19.33	0.42	950.0	1.14	1.12	1.13
1000.0	3.48	3.55	0.07	19.18	0.42	1000.0	1.14	1.14	1.14
1100.0	3.55	3.64	0.10	19.06	0.28	1100.0	1.15	1.17	1.16
1200.0	3.63	3.75	0.13	19.07	0.15	1200.0	1.15	1.20	1.19
1300.0	3.74	3.88	0.15	19.05	0.14	1300.0	1.14	1.24	1.22
1400.0	3.88	4.04	0.16	18.94	0.35	1400.0	1.13	1.28	1.24
1500.0	4.07	4.23	0.16	18.82	0.61	1500.0	1.11	1.32	1.26
1600.0	4.33	4.48	0.16	18.35	1.05	1600.0	1.12	1.34	1.27
1700.0	4.67	4.80	0.14	17.83	1.49	1700.0	1.13	1.37	1.28
1800.0	5.12	5.22	0.10	17.46	1.88	1800.0	1.16	1.41	1.30
1900.0	5.75	5.77	0.02	17.57	2.18	1900.0	1.21	1.47	1.32
2000.0	6.57	6.48	0.10	18.29	2.39	2000.0	1.28	1.57	1.37

<sup>1</sup>Total Loss = Insertion Loss + 3dB Splitter Loss

# 2 Way-0° Power Splitter/Combiner

# SBTC-2-10X+

## Typical Performance Data

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

FREQUENCY (MHz)	TOTAL LOSS <sup>1</sup> (dB)		AMPLITUDE UNBALANCE (dB)	ISOLATION (dB)	PHASE UNBALANCE (Deg)	FREQUENCY (MHz)	VSWR (:1)		
	S-1	S-2					S	1	2
	5.0	3.34					3.14	0.20	28.74
10.0	3.35	3.17	0.18	29.26	0.25	10.0	1.03	1.20	1.14
20.0	3.34	3.16	0.18	29.11	0.08	20.0	1.03	1.19	1.14
30.0	3.35	3.17	0.18	28.67	0.01	30.0	1.03	1.20	1.14
40.0	3.36	3.17	0.18	28.27	0.03	40.0	1.04	1.20	1.14
50.0	3.37	3.18	0.18	27.95	0.03	50.0	1.03	1.20	1.15
100.0	3.39	3.21	0.18	27.26	0.09	100.0	1.01	1.18	1.13
150.0	3.41	3.24	0.18	27.56	0.16	150.0	1.01	1.17	1.13
200.0	3.43	3.26	0.17	26.83	0.25	200.0	1.03	1.17	1.14
250.0	3.44	3.28	0.16	25.78	0.33	250.0	1.02	1.14	1.12
300.0	3.46	3.30	0.15	25.14	0.44	300.0	1.02	1.12	1.12
350.0	3.47	3.33	0.14	24.54	0.53	350.0	1.02	1.12	1.12
400.0	3.49	3.35	0.13	23.75	0.64	400.0	1.02	1.09	1.10
450.0	3.50	3.38	0.12	23.08	0.75	450.0	1.03	1.08	1.10
500.0	3.53	3.42	0.11	22.50	0.84	500.0	1.03	1.07	1.09
550.0	3.54	3.45	0.09	22.01	0.92	550.0	1.04	1.05	1.09
600.0	3.57	3.49	0.08	21.58	0.98	600.0	1.04	1.04	1.09
650.0	3.60	3.53	0.07	21.18	1.09	650.0	1.05	1.04	1.09
700.0	3.62	3.57	0.05	20.83	1.14	700.0	1.06	1.05	1.09
750.0	3.65	3.61	0.04	20.49	1.23	750.0	1.06	1.06	1.09
800.0	3.68	3.66	0.02	20.23	1.30	800.0	1.07	1.07	1.10
850.0	3.72	3.72	0.01	20.03	1.35	850.0	1.08	1.09	1.11
900.0	3.76	3.77	0.01	19.83	1.37	900.0	1.08	1.11	1.12
950.0	3.80	3.83	0.03	19.66	1.40	950.0	1.09	1.13	1.13
1000.0	3.85	3.89	0.05	19.55	1.47	1000.0	1.10	1.15	1.15
1100.0	3.96	4.04	0.08	19.36	1.51	1100.0	1.11	1.19	1.18
1200.0	4.08	4.20	0.12	19.31	1.49	1200.0	1.12	1.23	1.20
1300.0	4.24	4.38	0.15	19.38	1.39	1300.0	1.13	1.27	1.23
1400.0	4.42	4.59	0.18	19.58	1.28	1400.0	1.13	1.30	1.25
1500.0	4.64	4.83	0.19	19.83	1.09	1500.0	1.12	1.33	1.27
1600.0	4.91	5.12	0.21	20.08	0.87	1600.0	1.12	1.36	1.29
1700.0	5.23	5.44	0.21	20.27	0.58	1700.0	1.11	1.39	1.30
1800.0	5.63	5.83	0.19	20.23	0.36	1800.0	1.13	1.41	1.31
1900.0	6.13	6.28	0.16	19.76	0.16	1900.0	1.16	1.43	1.3
2000.0	6.74	6.84	0.10	18.56	0.06	2000.0	1.22	1.43	1.29

<sup>1</sup>Total Loss = Insertion Loss + 3dB Splitter Loss