

# 2 Way-0° Power Splitter/Combiner SBTC-2-10-5075+

## Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS <sup>1</sup> (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB) 1-2	VSWR (:1)		
	S-1	S-2				S	1	2
10	3.67	3.42	0.25	1.29	39.12	1.22	1.10	1.08
20	3.57	3.39	0.19	0.71	38.91	1.23	1.08	1.07
30	3.56	3.38	0.18	0.45	38.82	1.23	1.08	1.07
40	3.56	3.38	0.18	0.32	38.69	1.24	1.08	1.06
50	3.56	3.38	0.18	0.25	38.60	1.24	1.08	1.06
60	3.56	3.38	0.18	0.20	38.50	1.24	1.08	1.06
70	3.56	3.39	0.17	0.14	38.44	1.25	1.08	1.06
80	3.57	3.39	0.18	0.12	38.36	1.25	1.08	1.07
90	3.57	3.40	0.17	0.08	38.29	1.24	1.08	1.07
100	3.57	3.40	0.17	0.05	38.25	1.24	1.08	1.07
150	3.59	3.41	0.18	0.02	37.76	1.24	1.08	1.08
200	3.61	3.43	0.18	0.04	36.87	1.24	1.09	1.09
250	3.61	3.44	0.17	0.10	36.19	1.22	1.10	1.10
300	3.62	3.45	0.17	0.12	35.48	1.21	1.11	1.10
350	3.63	3.46	0.17	0.16	34.74	1.19	1.11	1.11
400	3.62	3.47	0.15	0.19	34.17	1.17	1.11	1.12
425	3.64	3.48	0.16	0.20	33.88	1.16	1.11	1.12
450	3.64	3.48	0.16	0.24	33.58	1.15	1.12	1.12
475	3.64	3.48	0.16	0.27	33.33	1.13	1.12	1.13
500	3.64	3.50	0.14	0.28	33.09	1.12	1.12	1.13
525	3.65	3.50	0.15	0.35	32.91	1.11	1.12	1.13
550	3.65	3.51	0.14	0.36	32.70	1.10	1.12	1.14
575	3.66	3.52	0.14	0.33	32.49	1.09	1.13	1.14
600	3.67	3.53	0.14	0.41	32.31	1.07	1.13	1.14
650	3.70	3.56	0.14	0.38	32.03	1.06	1.14	1.15
700	3.72	3.60	0.12	0.40	31.77	1.06	1.15	1.16
750	3.77	3.64	0.13	0.40	31.63	1.08	1.16	1.16
800	3.81	3.68	0.13	0.40	31.47	1.10	1.16	1.17
850	3.85	3.73	0.12	0.30	31.38	1.12	1.17	1.17
900	3.89	3.78	0.11	0.42	31.38	1.14	1.17	1.17
925	3.91	3.80	0.11	0.40	31.38	1.15	1.17	1.16
950	3.93	3.82	0.11	0.40	31.39	1.16	1.17	1.16
1000	3.97	3.87	0.10	0.37	31.47	1.17	1.16	1.15
1025	4.00	3.90	0.10	0.35	31.55	1.18	1.15	1.14
1050	4.02	3.92	0.10	0.39	31.64	1.18	1.15	1.14
1075	4.03	3.94	0.09	0.30	31.72	1.18	1.14	1.13
1100	4.05	3.96	0.09	0.26	31.83	1.18	1.12	1.12
1150	4.08	4.00	0.08	0.20	32.09	1.18	1.10	1.09
1200	4.11	4.04	0.07	0.13	32.45	1.17	1.07	1.06
1250	4.14	4.08	0.06	0.10	32.89	1.16	1.04	1.04
1300	4.17	4.13	0.04	0.00	33.48	1.15	1.01	1.03
1400	4.25	4.25	0.00	0.11	35.11	1.14	1.07	1.09
1500	4.39	4.42	0.03	0.25	37.71	1.19	1.16	1.17
1600	4.61	4.67	0.06	0.21	41.68	1.30	1.24	1.26
1700	4.93	5.02	0.09	0.27	43.63	1.43	1.31	1.31
1800	5.35	5.44	0.09	0.17	38.46	1.61	1.36	1.35
1900	5.83	5.91	0.09	0.25	34.20	1.78	1.38	1.36
2000	6.33	6.42	0.09	0.18	31.05	1.96	1.38	1.37
2100	6.83	6.90	0.08	0.19	28.57	2.12	1.35	1.33
2200	7.30	7.32	0.02	0.29	26.39	2.25	1.33	1.25
2300	7.74	7.71	0.03	0.03	24.42	2.37	1.31	1.23
2400	8.18	8.10	0.08	0.20	22.68	2.47	1.29	1.20
2500	8.64	8.53	0.11	0.51	21.11	2.55	1.28	1.26
2600	9.25	9.08	0.17	1.36	19.72	2.65	1.25	1.25

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



# 2 Way-0° Power Splitter/Combiner SBTC-2-10-5075+

## Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS <sup>1</sup> (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB) 1-2	VSWR (:1)		
	S-1	S-2				S	1	2
10	3.65	3.42	0.23	0.26	40.29	1.20	1.09	1.08
20	3.65	3.42	0.23	0.07	40.29	1.21	1.09	1.08
30	3.67	3.43	0.24	0.02	40.29	1.21	1.09	1.08
40	3.67	3.44	0.23	0.05	40.28	1.21	1.09	1.08
50	3.68	3.44	0.24	0.08	40.25	1.21	1.09	1.08
60	3.69	3.45	0.24	0.10	40.16	1.21	1.09	1.08
70	3.70	3.47	0.23	0.13	40.10	1.21	1.09	1.08
80	3.70	3.47	0.23	0.17	39.95	1.21	1.09	1.08
90	3.71	3.48	0.23	0.19	39.81	1.21	1.09	1.08
100	3.71	3.47	0.24	0.19	39.63	1.21	1.09	1.08
150	3.74	3.50	0.24	0.32	38.78	1.21	1.10	1.09
200	3.75	3.52	0.23	0.41	37.82	1.21	1.11	1.10
250	3.76	3.54	0.22	0.54	36.89	1.20	1.11	1.11
300	3.77	3.56	0.21	0.67	36.03	1.19	1.12	1.11
350	3.77	3.57	0.20	0.79	35.24	1.17	1.12	1.12
400	3.78	3.58	0.20	0.96	34.55	1.16	1.12	1.13
425	3.78	3.59	0.19	1.04	34.24	1.15	1.12	1.13
450	3.79	3.60	0.19	1.10	33.93	1.14	1.12	1.13
475	3.79	3.61	0.18	1.21	33.66	1.13	1.12	1.13
500	3.80	3.62	0.18	1.27	33.41	1.12	1.12	1.14
525	3.81	3.63	0.18	1.36	33.18	1.11	1.13	1.14
550	3.81	3.64	0.17	1.45	32.96	1.10	1.13	1.14
575	3.83	3.66	0.17	1.51	32.76	1.10	1.13	1.15
600	3.84	3.67	0.17	1.62	32.58	1.09	1.13	1.15
650	3.87	3.71	0.16	1.71	32.28	1.08	1.14	1.16
700	3.90	3.75	0.15	1.86	32.04	1.09	1.15	1.16
750	3.95	3.80	0.15	2.02	31.88	1.10	1.16	1.17
800	3.99	3.85	0.14	2.13	31.74	1.11	1.17	1.17
850	4.04	3.93	0.11	2.18	31.75	1.13	1.18	1.17
900	4.09	3.95	0.14	2.37	31.68	1.15	1.18	1.17
925	4.11	3.98	0.13	2.41	31.70	1.15	1.18	1.17
950	4.14	4.01	0.13	2.44	31.73	1.16	1.17	1.16
1000	4.18	4.06	0.12	2.51	31.84	1.17	1.17	1.15
1025	4.21	4.10	0.11	2.54	31.91	1.17	1.16	1.15
1050	4.24	4.12	0.12	2.66	32.04	1.18	1.15	1.14
1075	4.25	4.14	0.11	2.59	32.12	1.18	1.14	1.13
1100	4.27	4.17	0.10	2.62	32.25	1.18	1.13	1.12
1150	4.31	4.22	0.09	2.67	32.53	1.17	1.10	1.10
1200	4.34	4.27	0.07	2.72	32.91	1.17	1.08	1.07
1250	4.38	4.32	0.06	2.80	33.40	1.16	1.04	1.05
1300	4.41	4.37	0.04	2.86	34.03	1.15	1.01	1.05
1400	4.51	4.51	0.00	2.99	35.74	1.15	1.07	1.10
1500	4.66	4.70	0.04	3.13	38.45	1.20	1.16	1.17
1600	4.90	4.97	0.07	3.43	42.22	1.30	1.24	1.25
1700	5.24	5.34	0.10	3.60	42.72	1.44	1.31	1.31
1800	5.66	5.77	0.12	3.99	37.90	1.59	1.36	1.35
1900	6.16	6.26	0.11	4.23	33.97	1.76	1.38	1.36
2000	6.67	6.77	0.10	4.48	31.01	1.91	1.38	1.35
2100	7.18	7.26	0.08	4.64	28.69	2.06	1.36	1.31
2200	7.65	7.69	0.04	4.95	26.64	2.17	1.34	1.28
2300	8.09	8.08	0.01	5.27	24.76	2.27	1.32	1.24
2400	8.50	8.46	0.04	5.71	23.13	2.35	1.29	1.22
2500	8.95	8.89	0.05	6.43	21.56	2.42	1.26	1.21
2600	9.52	9.41	0.11	7.34	20.22	2.50	1.24	1.22

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

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# 2 Way-0° Power Splitter/Combiner SBTC-2-10-5075+

## Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS <sup>1</sup> (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB)	VSWR (:1)		
	S-1	S-2				S	1	2
10	3.83	3.53	0.30	0.46	43.01	1.17	1.10	1.09
20	3.81	3.52	0.29	0.18	43.14	1.17	1.10	1.09
30	3.82	3.54	0.28	0.07	43.15	1.17	1.10	1.09
40	3.83	3.54	0.29	0.01	43.13	1.17	1.10	1.09
50	3.83	3.55	0.28	0.07	43.07	1.17	1.10	1.09
60	3.84	3.56	0.28	0.09	42.98	1.17	1.10	1.09
70	3.85	3.56	0.29	0.14	42.81	1.17	1.10	1.09
80	3.86	3.57	0.29	0.18	42.52	1.17	1.10	1.09
90	3.86	3.58	0.28	0.22	42.24	1.17	1.11	1.09
100	3.87	3.58	0.29	0.24	41.88	1.17	1.11	1.09
150	3.89	3.62	0.27	0.34	40.22	1.17	1.11	1.10
200	3.91	3.64	0.27	0.48	38.97	1.17	1.12	1.11
250	3.92	3.66	0.26	0.61	37.77	1.16	1.12	1.11
300	3.93	3.68	0.25	0.78	36.63	1.16	1.13	1.12
350	3.94	3.70	0.24	0.96	35.73	1.15	1.13	1.13
400	3.95	3.72	0.23	1.12	34.99	1.14	1.13	1.13
425	3.96	3.73	0.23	1.21	34.65	1.13	1.12	1.13
450	3.96	3.74	0.22	1.27	34.34	1.12	1.12	1.14
475	3.97	3.76	0.21	1.41	34.05	1.12	1.12	1.14
500	3.98	3.77	0.21	1.50	33.78	1.11	1.12	1.14
525	3.99	3.78	0.21	1.60	33.58	1.11	1.13	1.14
550	4.00	3.80	0.20	1.70	33.36	1.11	1.13	1.14
575	4.01	3.82	0.19	1.79	33.18	1.10	1.13	1.15
600	4.03	3.84	0.19	1.88	33.00	1.10	1.13	1.15
650	4.06	3.88	0.18	2.06	32.71	1.11	1.14	1.15
700	4.10	3.93	0.17	2.21	32.52	1.11	1.15	1.16
750	4.15	3.99	0.16	2.39	32.40	1.13	1.16	1.16
800	4.20	4.05	0.15	2.51	32.28	1.14	1.17	1.17
850	4.24	4.10	0.14	2.60	32.23	1.15	1.17	1.17
900	4.30	4.18	0.12	2.64	32.28	1.16	1.17	1.16
925	4.32	4.20	0.12	2.85	32.31	1.17	1.17	1.16
950	4.35	4.23	0.12	2.90	32.35	1.18	1.17	1.16
1000	4.40	4.29	0.11	3.08	32.49	1.19	1.16	1.15
1025	4.43	4.33	0.10	3.17	32.59	1.19	1.16	1.14
1050	4.46	4.36	0.10	3.21	32.71	1.19	1.15	1.13
1075	4.47	4.39	0.08	3.25	32.85	1.19	1.14	1.12
1100	4.49	4.42	0.07	3.27	32.98	1.19	1.13	1.12
1150	4.53	4.48	0.05	3.38	33.33	1.18	1.11	1.10
1200	4.57	4.53	0.04	3.48	33.77	1.17	1.08	1.07
1250	4.60	4.59	0.01	3.64	34.30	1.16	1.05	1.06
1300	4.64	4.65	0.01	3.72	35.01	1.16	1.02	1.05
1400	4.75	4.81	0.06	3.94	36.98	1.16	1.07	1.10
1500	4.91	5.02	0.11	4.22	39.86	1.21	1.15	1.17
1600	5.15	5.31	0.16	4.62	43.76	1.32	1.23	1.25
1700	5.49	5.69	0.20	5.07	42.64	1.45	1.30	1.31
1800	5.91	6.14	0.23	5.42	37.73	1.60	1.35	1.34
1900	6.39	6.62	0.23	5.84	34.14	1.76	1.37	1.35
2000	6.89	7.12	0.23	6.18	31.39	1.90	1.37	1.33
2100	7.36	7.60	0.24	6.54	29.15	2.04	1.35	1.30
2200	7.81	8.02	0.21	6.89	27.22	2.15	1.32	1.27
2300	8.22	8.41	0.19	7.35	25.43	2.25	1.30	1.23
2400	8.60	8.78	0.18	7.83	23.86	2.33	1.28	1.21
2500	8.98	9.15	0.17	8.56	22.37	2.41	1.26	1.21
2600	9.47	9.62	0.15	9.40	21.06	2.48	1.24	1.21

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

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