

2 Way-0° Power Splitter/Combiner

SBTC-2-20X+

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
40.0	4.02	3.19	0.83	12.82	3.62	40.0	1.75	3.54	2.79
50.0	3.88	3.16	0.71	13.82	3.61	50.0	1.62	3.00	2.45
100.0	3.60	3.21	0.39	18.71	2.63	100.0	1.41	1.96	1.77
150.0	3.53	3.24	0.29	23.02	1.89	150.0	1.37	1.66	1.56
200.0	3.50	3.26	0.24	27.38	1.35	200.0	1.36	1.51	1.46
250.0	3.48	3.27	0.21	32.24	0.97	250.0	1.36	1.42	1.40
300.0	3.47	3.28	0.19	35.80	0.72	300.0	1.36	1.36	1.35
350.0	3.47	3.29	0.18	33.42	0.48	350.0	1.35	1.32	1.32
400.0	3.46	3.31	0.15	30.06	0.26	400.0	1.35	1.28	1.29
450.0	3.47	3.31	0.16	27.53	0.08	450.0	1.35	1.24	1.27
500.0	3.46	3.33	0.13	25.65	0.03	500.0	1.35	1.21	1.24
550.0	3.47	3.34	0.13	24.16	0.17	550.0	1.35	1.18	1.22
600.0	3.47	3.36	0.12	22.97	0.31	600.0	1.35	1.15	1.20
650.0	3.48	3.37	0.11	21.99	0.42	650.0	1.35	1.12	1.18
700.0	3.49	3.39	0.10	21.15	0.52	700.0	1.35	1.10	1.16
750.0	3.50	3.41	0.09	20.45	0.58	750.0	1.35	1.08	1.14
800.0	3.51	3.43	0.08	19.84	0.67	800.0	1.35	1.07	1.12
850.0	3.52	3.45	0.07	19.33	0.69	850.0	1.35	1.06	1.10
900.0	3.53	3.48	0.05	18.90	0.73	900.0	1.35	1.07	1.09
950.0	3.54	3.50	0.04	18.53	0.75	950.0	1.35	1.08	1.07
1000.0	3.56	3.53	0.03	18.24	0.79	1000.0	1.36	1.10	1.06
1050.0	3.57	3.56	0.01	17.98	0.80	1050.0	1.36	1.13	1.05
1100.0	3.59	3.59	0.00	17.79	0.77	1100.0	1.36	1.16	1.05
1150.0	3.61	3.61	0.00	17.66	0.76	1150.0	1.36	1.19	1.06
1200.0	3.63	3.65	0.02	17.59	0.70	1200.0	1.37	1.22	1.07
1250.0	3.66	3.68	0.02	17.58	0.67	1250.0	1.37	1.26	1.09
1300.0	3.68	3.72	0.04	17.64	0.59	1300.0	1.37	1.29	1.11
1350.0	3.71	3.75	0.04	17.74	0.50	1350.0	1.37	1.32	1.13
1400.0	3.73	3.79	0.06	17.94	0.35	1400.0	1.37	1.36	1.15
1450.0	3.76	3.82	0.06	18.19	0.24	1450.0	1.37	1.40	1.17
1500.0	3.79	3.86	0.07	18.53	0.12	1500.0	1.37	1.43	1.19
1550.0	3.82	3.89	0.07	18.98	0.05	1550.0	1.37	1.47	1.22
1600.0	3.86	3.93	0.07	19.51	0.19	1600.0	1.37	1.51	1.24
1650.0	3.89	3.97	0.08	20.19	0.33	1650.0	1.36	1.54	1.26
1700.0	3.93	4.01	0.08	20.98	0.49	1700.0	1.35	1.57	1.28
1750.0	3.97	4.05	0.08	21.91	0.66	1750.0	1.35	1.60	1.31
1800.0	4.02	4.09	0.07	22.91	0.82	1800.0	1.34	1.63	1.33
1850.0	4.07	4.14	0.07	23.78	1.04	1850.0	1.33	1.66	1.35
1900.0	4.13	4.19	0.06	24.27	1.19	1900.0	1.33	1.67	1.36
1950.0	4.19	4.24	0.05	24.03	1.38	1950.0	1.33	1.68	1.38
2000.0	4.26	4.30	0.04	22.96	1.51	2000.0	1.33	1.69	1.39
2050.0	4.35	4.36	0.01	21.38	1.68	2050.0	1.35	1.69	1.40
2100.0	4.45	4.44	0.01	19.67	1.80	2100.0	1.37	1.68	1.41
2150.0	4.56	4.53	0.04	18.00	1.89	2150.0	1.41	1.67	1.41
2200.0	4.69	4.64	0.06	16.47	1.89	2200.0	1.46	1.64	1.41
2250.0	4.85	4.75	0.09	15.07	1.90	2250.0	1.52	1.61	1.41
2300.0	5.02	4.90	0.12	13.82	1.78	2300.0	1.60	1.57	1.41
2350.0	5.24	5.06	0.18	12.70	1.56	2350.0	1.69	1.53	1.40
2400.0	5.46	5.24	0.22	11.71	1.30	2400.0	1.80	1.48	1.39
2450.0	5.73	5.46	0.27	10.82	0.88	2450.0	1.92	1.43	1.38
2500.0	6.01	5.70	0.31	10.03	0.24	2500.0	2.05	1.38	1.38
2550.0	6.34	5.98	0.36	9.32	0.50	2550.0	2.19	1.32	1.37
2600.0	6.70	6.28	0.42	8.71	1.53	2600.0	2.34	1.27	1.37

¹Total Loss = Insertion Loss + 3dB Splitter Loss



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IF/RF MICROWAVE COMPONENTS

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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
40.0	4.05	3.21	0.84	12.83	3.55	40.0	1.74	3.56	2.81
50.0	3.89	3.18	0.72	13.79	3.54	50.0	1.61	3.03	2.47
100.0	3.60	3.20	0.40	18.61	2.63	100.0	1.42	2.00	1.80
150.0	3.52	3.22	0.30	22.95	1.91	150.0	1.38	1.69	1.59
200.0	3.47	3.23	0.24	27.33	1.40	200.0	1.36	1.53	1.48
250.0	3.45	3.24	0.21	32.47	1.03	250.0	1.36	1.45	1.42
300.0	3.44	3.25	0.19	37.36	0.81	300.0	1.36	1.39	1.38
350.0	3.43	3.25	0.18	34.53	0.56	350.0	1.36	1.34	1.34
400.0	3.43	3.26	0.17	30.65	0.38	400.0	1.36	1.30	1.31
450.0	3.42	3.26	0.16	27.95	0.22	450.0	1.36	1.26	1.29
500.0	3.41	3.27	0.14	25.91	0.10	500.0	1.36	1.23	1.26
550.0	3.42	3.28	0.14	24.32	0.04	550.0	1.36	1.20	1.24
600.0	3.42	3.30	0.13	23.11	0.17	600.0	1.36	1.17	1.22
650.0	3.42	3.30	0.12	22.10	0.25	650.0	1.36	1.15	1.20
700.0	3.42	3.32	0.10	21.25	0.35	700.0	1.36	1.12	1.18
750.0	3.43	3.33	0.10	20.52	0.43	750.0	1.36	1.10	1.16
800.0	3.44	3.35	0.09	19.91	0.44	800.0	1.36	1.08	1.14
850.0	3.44	3.37	0.07	19.36	0.40	850.0	1.36	1.07	1.12
900.0	3.44	3.38	0.06	18.92	0.47	900.0	1.37	1.07	1.11
950.0	3.45	3.41	0.04	18.51	0.52	950.0	1.37	1.08	1.09
1000.0	3.46	3.43	0.03	18.21	0.61	1000.0	1.37	1.10	1.07
1050.0	3.48	3.46	0.02	17.98	0.64	1050.0	1.37	1.12	1.06
1100.0	3.49	3.48	0.01	17.81	0.58	1100.0	1.37	1.15	1.06
1150.0	3.51	3.50	0.01	17.66	0.53	1150.0	1.37	1.18	1.06
1200.0	3.52	3.53	0.01	17.56	0.50	1200.0	1.38	1.21	1.07
1250.0	3.54	3.56	0.02	17.54	0.47	1250.0	1.38	1.24	1.08
1300.0	3.55	3.58	0.03	17.63	0.34	1300.0	1.37	1.28	1.10
1350.0	3.57	3.61	0.04	17.79	0.18	1350.0	1.37	1.31	1.12
1400.0	3.59	3.64	0.05	17.95	0.03	1400.0	1.37	1.35	1.14
1450.0	3.62	3.67	0.05	18.17	0.12	1450.0	1.37	1.38	1.16
1500.0	3.64	3.70	0.06	18.52	0.22	1500.0	1.37	1.42	1.18
1550.0	3.67	3.73	0.06	18.99	0.34	1550.0	1.37	1.46	1.20
1600.0	3.70	3.77	0.07	19.51	0.45	1600.0	1.36	1.49	1.23
1650.0	3.73	3.80	0.07	20.17	0.57	1650.0	1.36	1.53	1.25
1700.0	3.76	3.83	0.07	20.99	0.74	1700.0	1.35	1.56	1.27
1750.0	3.79	3.87	0.08	21.94	0.89	1750.0	1.34	1.59	1.30
1800.0	3.83	3.90	0.07	22.90	1.05	1800.0	1.33	1.61	1.31
1850.0	3.88	3.94	0.06	23.73	1.35	1850.0	1.33	1.64	1.33
1900.0	3.93	3.99	0.06	24.34	1.49	1900.0	1.33	1.66	1.35
1950.0	3.97	4.03	0.06	24.49	1.64	1950.0	1.33	1.67	1.37
2000.0	4.05	4.09	0.05	23.79	1.78	2000.0	1.35	1.69	1.39
2050.0	4.13	4.15	0.02	22.19	1.99	2050.0	1.37	1.70	1.40
2100.0	4.21	4.22	0.01	20.26	2.22	2100.0	1.38	1.69	1.40
2150.0	4.30	4.30	0.00	18.46	2.30	2150.0	1.41	1.66	1.41
2200.0	4.42	4.41	0.01	16.86	2.22	2200.0	1.46	1.64	1.41
2250.0	4.56	4.50	0.06	15.40	2.22	2250.0	1.53	1.62	1.41
2300.0	4.72	4.63	0.09	14.09	2.20	2300.0	1.60	1.59	1.41
2350.0	4.90	4.77	0.13	12.95	2.04	2350.0	1.68	1.55	1.40
2400.0	5.10	4.93	0.17	11.96	1.85	2400.0	1.78	1.50	1.39
2450.0	5.34	5.12	0.22	11.06	1.54	2450.0	1.90	1.45	1.38
2500.0	5.61	5.35	0.25	10.22	1.08	2500.0	2.04	1.39	1.38
2550.0	5.91	5.61	0.30	9.49	0.50	2550.0	2.19	1.34	1.38
2600.0	6.23	5.89	0.34	8.85	0.31	2600.0	2.35	1.30	1.38

¹Total Loss = Insertion Loss + 3dB Splitter Loss



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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
40.0	4.01	3.18	0.83	12.86	3.65	40.0	1.76	3.51	2.77
50.0	3.87	3.16	0.70	13.89	3.62	50.0	1.62	2.98	2.44
100.0	3.60	3.21	0.38	18.77	2.63	100.0	1.41	1.94	1.75
150.0	3.52	3.24	0.28	22.98	1.85	150.0	1.37	1.63	1.54
200.0	3.50	3.27	0.23	27.24	1.33	200.0	1.36	1.50	1.45
250.0	3.49	3.28	0.21	31.84	0.95	250.0	1.36	1.41	1.39
300.0	3.48	3.30	0.18	34.75	0.73	300.0	1.35	1.35	1.34
350.0	3.48	3.31	0.17	32.78	0.45	350.0	1.35	1.30	1.31
400.0	3.47	3.32	0.15	29.76	0.26	400.0	1.35	1.26	1.28
450.0	3.48	3.33	0.15	27.34	0.10	450.0	1.35	1.22	1.25
500.0	3.48	3.35	0.13	25.50	0.04	500.0	1.35	1.19	1.23
550.0	3.49	3.37	0.12	24.06	0.21	550.0	1.35	1.17	1.21
600.0	3.50	3.38	0.12	22.91	0.34	600.0	1.34	1.14	1.19
650.0	3.51	3.40	0.11	21.94	0.45	650.0	1.34	1.11	1.16
700.0	3.52	3.42	0.10	21.14	0.58	700.0	1.34	1.09	1.15
750.0	3.54	3.45	0.09	20.45	0.67	750.0	1.34	1.07	1.13
800.0	3.56	3.47	0.09	19.86	0.64	800.0	1.34	1.06	1.11
850.0	3.55	3.49	0.06	19.32	0.59	850.0	1.35	1.06	1.09
900.0	3.56	3.51	0.05	18.90	0.64	900.0	1.35	1.07	1.07
950.0	3.58	3.55	0.03	18.54	0.71	950.0	1.35	1.09	1.06
1000.0	3.60	3.58	0.02	18.24	0.89	1000.0	1.35	1.12	1.05
1050.0	3.63	3.63	0.00	18.00	0.97	1050.0	1.36	1.14	1.05
1100.0	3.66	3.65	0.01	17.83	0.88	1100.0	1.36	1.17	1.06
1150.0	3.68	3.68	0.00	17.73	0.84	1150.0	1.36	1.20	1.07
1200.0	3.70	3.71	0.01	17.66	0.83	1200.0	1.37	1.24	1.08
1250.0	3.73	3.75	0.02	17.66	0.83	1250.0	1.38	1.27	1.10
1300.0	3.75	3.79	0.04	17.72	0.67	1300.0	1.38	1.31	1.12
1350.0	3.78	3.82	0.04	17.87	0.45	1350.0	1.38	1.34	1.15
1400.0	3.81	3.87	0.06	18.08	0.24	1400.0	1.39	1.38	1.17
1450.0	3.84	3.90	0.06	18.38	0.08	1450.0	1.39	1.42	1.19
1500.0	3.88	3.94	0.06	18.74	0.05	1500.0	1.39	1.45	1.22
1550.0	3.91	3.98	0.07	19.23	0.08	1550.0	1.39	1.49	1.24
1600.0	3.95	4.02	0.07	19.81	0.20	1600.0	1.38	1.53	1.26
1650.0	3.99	4.07	0.08	20.56	0.27	1650.0	1.38	1.56	1.28
1700.0	4.03	4.11	0.08	21.43	0.41	1700.0	1.37	1.59	1.30
1750.0	4.07	4.15	0.08	22.50	0.55	1750.0	1.36	1.62	1.32
1800.0	4.12	4.20	0.08	23.63	0.74	1800.0	1.36	1.65	1.34
1850.0	4.18	4.24	0.06	24.62	1.05	1850.0	1.35	1.67	1.36
1900.0	4.24	4.29	0.05	25.03	1.14	1900.0	1.35	1.68	1.37
1950.0	4.29	4.34	0.05	24.50	1.30	1950.0	1.34	1.69	1.39
2000.0	4.37	4.41	0.04	23.12	1.50	2000.0	1.35	1.69	1.40
2050.0	4.47	4.49	0.02	21.39	1.73	2050.0	1.37	1.69	1.40
2100.0	4.57	4.57	0.00	19.51	1.81	2100.0	1.39	1.68	1.40
2150.0	4.69	4.67	0.03	17.72	1.88	2150.0	1.44	1.66	1.41
2200.0	4.83	4.79	0.04	16.12	1.88	2200.0	1.49	1.62	1.41
2250.0	4.99	4.92	0.07	14.72	1.86	2250.0	1.56	1.59	1.41
2300.0	5.18	5.08	0.10	13.49	1.77	2300.0	1.65	1.55	1.40
2350.0	5.41	5.26	0.15	12.41	1.53	2350.0	1.75	1.50	1.39
2400.0	5.65	5.47	0.18	11.45	1.23	2400.0	1.87	1.45	1.38
2450.0	5.94	5.70	0.24	10.59	0.82	2450.0	2.00	1.40	1.38
2500.0	6.24	5.97	0.27	9.84	0.21	2500.0	2.15	1.34	1.37
2550.0	6.60	6.27	0.33	9.17	0.43	2550.0	2.30	1.29	1.37
2600.0	6.97	6.59	0.38	8.59	1.45	2600.0	2.46	1.24	1.37

¹Total Loss = Insertion Loss + 3dB Splitter Loss



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