

2 Way-0° Power Splitter/Combiner

SBTC-2-15-75+

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
50.0	8.30	6.45	1.85	16.46	3.29	50.0	5.91	12.71	8.23
100.0	5.98	4.48	1.50	15.77	4.53	100.0	2.60	5.44	3.78
150.0	5.25	4.00	1.25	16.61	4.65	150.0	1.88	3.71	2.76
200.0	4.87	3.79	1.08	17.57	4.34	200.0	1.57	2.94	2.29
250.0	4.65	3.69	0.96	18.54	4.01	250.0	1.39	2.50	2.01
300.0	4.48	3.63	0.85	19.48	3.62	300.0	1.27	2.21	1.84
350.0	4.36	3.58	0.78	20.28	3.29	350.0	1.19	2.00	1.72
400.0	4.26	3.56	0.70	21.03	2.97	400.0	1.13	1.84	1.61
425.0	4.22	3.55	0.67	21.55	3.09	425.0	1.11	1.78	1.56
450.0	4.18	3.54	0.64	21.96	2.70	450.0	1.10	1.72	1.53
475.0	4.16	3.53	0.63	22.57	2.83	475.0	1.10	1.66	1.50
500.0	4.12	3.53	0.59	22.83	2.46	500.0	1.10	1.61	1.48
525.0	4.12	3.52	0.60	23.43	2.54	525.0	1.10	1.57	1.45
550.0	4.07	3.52	0.55	23.56	2.29	550.0	1.11	1.53	1.42
575.0	4.08	3.52	0.56	24.16	2.27	575.0	1.12	1.49	1.39
600.0	4.03	3.53	0.50	24.62	2.09	600.0	1.13	1.46	1.37
625.0	4.04	3.52	0.52	25.27	1.98	625.0	1.14	1.43	1.36
650.0	4.01	3.53	0.48	25.82	1.95	650.0	1.15	1.40	1.35
675.0	4.01	3.52	0.49	26.37	1.68	675.0	1.16	1.37	1.34
700.0	3.99	3.53	0.46	26.75	1.80	700.0	1.16	1.35	1.32
725.0	3.98	3.52	0.46	27.00	1.42	725.0	1.17	1.33	1.31
750.0	3.97	3.54	0.43	27.91	1.59	750.0	1.18	1.31	1.29
775.0	3.95	3.52	0.43	27.82	1.25	775.0	1.18	1.29	1.28
800.0	3.95	3.53	0.43	29.39	1.36	800.0	1.18	1.27	1.27
850.0	3.94	3.52	0.42	29.76	1.15	850.0	1.19	1.23	1.26
900.0	3.92	3.53	0.39	29.30	0.86	900.0	1.19	1.20	1.24
950.0	3.90	3.52	0.38	29.93	0.68	950.0	1.19	1.18	1.23
1000.0	3.88	3.52	0.36	29.52	0.58	1000.0	1.18	1.15	1.21
1050.0	3.87	3.52	0.35	28.07	0.52	1050.0	1.17	1.13	1.20
1100.0	3.87	3.53	0.34	27.41	0.43	1100.0	1.16	1.11	1.19
1150.0	3.87	3.54	0.33	26.78	0.36	1150.0	1.15	1.09	1.18
1200.0	3.87	3.56	0.31	25.76	0.40	1200.0	1.14	1.07	1.16
1250.0	3.88	3.58	0.30	25.79	0.42	1250.0	1.13	1.06	1.16
1300.0	3.90	3.61	0.29	26.16	0.45	1300.0	1.12	1.05	1.16
1350.0	3.91	3.65	0.26	25.74	0.49	1350.0	1.11	1.04	1.14
1400.0	3.93	3.69	0.24	25.36	0.52	1400.0	1.11	1.05	1.14
1425.0	3.91	3.71	0.20	25.70	0.53	1425.0	1.11	1.05	1.15
1450.0	3.93	3.72	0.21	25.90	0.58	1450.0	1.10	1.06	1.16
1475.0	3.91	3.74	0.17	27.08	0.55	1475.0	1.10	1.06	1.16
1500.0	3.92	3.75	0.16	26.91	0.52	1500.0	1.10	1.07	1.16
1525.0	3.90	3.77	0.13	28.03	0.56	1525.0	1.10	1.08	1.16
1550.0	3.91	3.78	0.13	28.26	0.47	1550.0	1.11	1.09	1.16
1575.0	3.90	3.80	0.10	28.66	0.51	1575.0	1.11	1.10	1.17
1600.0	3.90	3.81	0.09	30.44	0.43	1600.0	1.11	1.11	1.18
1700.0	3.91	3.88	0.03	36.05	0.09	1700.0	1.14	1.15	1.21
1800.0	4.02	4.03	0.01	31.53	0.15	1800.0	1.19	1.20	1.27
1900.0	4.17	4.18	0.01	26.60	0.13	1900.0	1.24	1.26	1.33
2000.0	4.30	4.23	0.07	23.01	0.21	2000.0	1.31	1.33	1.41
2100.0	4.28	4.21	0.07	21.89	0.01	2100.0	1.40	1.41	1.50
2200.0	4.15	4.06	0.09	21.54	1.24	2200.0	1.49	1.50	1.60
2300.0	4.06	3.95	0.11	22.61	2.48	2300.0	1.58	1.59	1.71
2400.0	3.98	4.03	0.05	25.93	2.96	2400.0	1.64	1.67	1.80
2500.0	4.11	4.46	0.35	28.68	3.53	2500.0	1.68	1.74	1.88

¹Total Loss = Insertion Loss + 3dB Splitter Loss



2 Way-0° Power Splitter/Combiner

SBTC-2-15-75+

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
50.0	8.49	6.63	1.86	16.65	3.29	50.0	5.70	12.44	7.87
100.0	6.12	4.60	1.52	15.87	4.62	100.0	2.73	5.45	3.92
150.0	5.35	4.06	1.28	16.59	4.80	150.0	1.94	3.75	2.85
200.0	4.94	3.83	1.11	17.49	4.66	200.0	1.64	3.03	2.38
250.0	4.71	3.71	1.00	18.39	4.43	250.0	1.44	2.62	2.12
300.0	4.53	3.63	0.90	19.30	4.18	300.0	1.30	2.34	1.93
350.0	4.39	3.57	0.82	20.04	3.97	350.0	1.21	2.13	1.81
400.0	4.29	3.53	0.76	20.73	3.78	400.0	1.13	1.96	1.69
425.0	4.24	3.52	0.72	21.19	3.97	425.0	1.10	1.88	1.64
450.0	4.19	3.50	0.69	21.58	3.63	450.0	1.08	1.82	1.60
475.0	4.17	3.49	0.68	22.16	3.84	475.0	1.06	1.76	1.58
500.0	4.12	3.48	0.64	22.37	3.52	500.0	1.06	1.70	1.55
525.0	4.11	3.47	0.64	22.94	3.67	525.0	1.07	1.65	1.52
550.0	4.07	3.47	0.60	23.02	3.47	550.0	1.09	1.60	1.49
575.0	4.07	3.45	0.62	23.59	3.53	575.0	1.10	1.56	1.45
600.0	4.01	3.46	0.55	23.97	3.40	600.0	1.12	1.52	1.43
625.0	4.03	3.44	0.59	24.62	3.35	625.0	1.14	1.48	1.40
650.0	3.98	3.45	0.53	25.10	3.37	650.0	1.16	1.45	1.38
675.0	3.99	3.43	0.56	25.74	3.15	675.0	1.17	1.42	1.37
700.0	3.96	3.44	0.52	26.07	3.35	700.0	1.19	1.39	1.35
725.0	3.94	3.42	0.52	26.41	3.03	725.0	1.20	1.36	1.33
750.0	3.93	3.43	0.50	27.23	3.28	750.0	1.21	1.33	1.31
775.0	3.90	3.42	0.49	27.31	2.98	775.0	1.21	1.30	1.29
800.0	3.90	3.42	0.49	28.90	3.16	800.0	1.21	1.28	1.28
850.0	3.88	3.41	0.47	29.89	3.09	850.0	1.21	1.24	1.24
900.0	3.84	3.39	0.45	29.77	2.91	900.0	1.21	1.20	1.21
950.0	3.82	3.38	0.44	30.75	2.84	950.0	1.19	1.17	1.19
1000.0	3.80	3.37	0.43	30.78	2.89	1000.0	1.16	1.15	1.17
1050.0	3.78	3.36	0.42	29.23	2.94	1050.0	1.13	1.13	1.16
1100.0	3.77	3.36	0.41	28.43	2.98	1100.0	1.10	1.12	1.17
1150.0	3.77	3.37	0.40	27.62	3.05	1150.0	1.07	1.10	1.17
1200.0	3.77	3.38	0.39	26.41	3.17	1200.0	1.05	1.09	1.17
1250.0	3.77	3.40	0.37	26.31	3.33	1250.0	1.04	1.09	1.19
1300.0	3.79	3.42	0.37	26.68	3.45	1300.0	1.05	1.07	1.21
1350.0	3.79	3.46	0.33	26.08	3.68	1350.0	1.07	1.06	1.2
1400.0	3.80	3.49	0.31	25.62	3.87	1400.0	1.1	1.05	1.21
1425.0	3.78	3.50	0.28	26.10	3.90	1425.0	1.11	1.04	1.23
1450.0	3.79	3.52	0.27	26.24	4.11	1450.0	1.12	1.04	1.24
1475.0	3.76	3.52	0.24	27.47	4.07	1475.0	1.14	1.05	1.25
1500.0	3.76	3.53	0.23	27.32	4.16	1500.0	1.16	1.05	1.25
1525.0	3.74	3.54	0.20	28.39	4.19	1525.0	1.17	1.06	1.25
1550.0	3.74	3.54	0.19	28.83	4.22	1550.0	1.19	1.08	1.25
1575.0	3.72	3.56	0.16	29.27	4.23	1575.0	1.21	1.09	1.27
1600.0	3.71	3.56	0.15	31.51	4.30	1600.0	1.23	1.11	1.29
1700.0	3.71	3.63	0.08	43.52	4.13	1700.0	1.29	1.18	1.36
1800.0	3.83	3.79	0.04	32.02	4.04	1800.0	1.32	1.26	1.41
1900.0	3.98	3.93	0.04	26.16	4.47	1900.0	1.3	1.31	1.45
2000.0	4.07	3.94	0.13	22.60	4.60	2000.0	1.23	1.35	1.39
2100.0	4.00	3.87	0.13	21.38	5.04	2100.0	1.21	1.38	1.38
2200.0	3.84	3.67	0.18	21.28	6.55	2200.0	1.31	1.41	1.33
2300.0	3.75	3.60	0.15	22.59	8.10	2300.0	1.53	1.46	1.36
2400.0	3.65	3.65	0.00	27.22	9.40	2400.0	1.8	1.53	1.58
2500.0	3.70	4.02	0.32	31.52	9.86	2500.0	2.07	1.65	1.81

¹Total Loss = Insertion Loss + 3dB Splitter Loss



2 Way-0° Power Splitter/Combiner

SBTC-2-15-75+

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
50.0	8.14	6.31	1.83	16.32	3.30	50.0	6.03	12.35	8.51
100.0	5.89	4.41	1.48	15.73	4.49	100.0	2.47	5.35	3.63
150.0	5.17	3.96	1.21	16.64	4.56	150.0	1.83	3.63	2.67
200.0	4.81	3.77	1.04	17.60	4.21	200.0	1.51	2.84	2.22
250.0	4.60	3.68	0.92	18.61	3.82	250.0	1.33	2.39	1.90
300.0	4.44	3.63	0.81	19.61	3.40	300.0	1.25	2.10	1.77
350.0	4.33	3.59	0.74	20.44	3.00	350.0	1.18	1.90	1.63
400.0	4.24	3.58	0.66	21.30	2.63	400.0	1.16	1.75	1.52
425.0	4.20	3.58	0.62	21.87	2.71	425.0	1.15	1.70	1.49
450.0	4.17	3.58	0.59	22.33	2.31	450.0	1.14	1.64	1.47
475.0	4.16	3.58	0.58	22.98	2.41	475.0	1.13	1.60	1.45
500.0	4.12	3.57	0.55	23.27	2.02	500.0	1.13	1.56	1.43
525.0	4.12	3.57	0.55	23.92	2.06	525.0	1.13	1.52	1.40
550.0	4.09	3.58	0.51	24.11	1.79	550.0	1.13	1.49	1.38
575.0	4.09	3.58	0.51	24.76	1.73	575.0	1.12	1.46	1.36
600.0	4.05	3.60	0.45	25.27	1.53	600.0	1.12	1.43	1.35
625.0	4.07	3.59	0.48	25.94	1.40	625.0	1.12	1.41	1.34
650.0	4.04	3.61	0.43	26.53	1.32	650.0	1.13	1.39	1.33
675.0	4.05	3.60	0.45	27.04	1.05	675.0	1.13	1.36	1.33
700.0	4.03	3.62	0.41	27.43	1.13	700.0	1.13	1.34	1.32
725.0	4.03	3.61	0.41	27.62	0.75	725.0	1.13	1.33	1.31
750.0	4.02	3.63	0.39	28.59	0.87	750.0	1.14	1.31	1.30
775.0	4.01	3.62	0.39	28.37	0.51	775.0	1.14	1.29	1.29
800.0	4.01	3.63	0.38	29.82	0.63	800.0	1.15	1.28	1.29
850.0	4.00	3.63	0.37	29.65	0.36	850.0	1.16	1.25	1.28
900.0	4.00	3.64	0.35	29.20	0.11	900.0	1.17	1.23	1.26
950.0	3.99	3.66	0.33	29.35	0.22	950.0	1.20	1.20	1.26
1000.0	3.97	3.66	0.31	28.66	0.32	1000.0	1.21	1.18	1.24
1050.0	3.97	3.67	0.30	27.29	0.45	1050.0	1.22	1.16	1.23
1100.0	3.98	3.68	0.30	26.70	0.57	1100.0	1.22	1.14	1.23
1150.0	3.98	3.70	0.28	26.12	0.63	1150.0	1.22	1.12	1.21
1200.0	3.98	3.73	0.25	25.23	0.69	1200.0	1.22	1.11	1.20
1250.0	3.99	3.75	0.24	25.26	0.71	1250.0	1.21	1.10	1.20
1300.0	4.03	3.78	0.24	25.67	0.72	1300.0	1.2	1.1	1.18
1350.0	4.05	3.84	0.21	25.41	0.71	1350.0	1.19	1.11	1.17
1400.0	4.07	3.88	0.19	25.12	0.79	1400.0	1.17	1.11	1.15
1425.0	4.05	3.90	0.15	25.33	0.79	1425.0	1.15	1.11	1.15
1450.0	4.07	3.92	0.15	25.60	0.79	1450.0	1.14	1.12	1.15
1475.0	4.06	3.95	0.11	26.69	0.79	1475.0	1.13	1.12	1.15
1500.0	4.07	3.96	0.11	26.52	0.90	1500.0	1.12	1.12	1.14
1525.0	4.07	3.99	0.08	27.63	0.81	1525.0	1.11	1.12	1.13
1550.0	4.07	4.00	0.07	27.78	1.02	1550.0	1.09	1.12	1.12
1575.0	4.08	4.03	0.05	28.06	0.95	1575.0	1.07	1.12	1.12
1600.0	4.07	4.04	0.03	29.48	1.09	1600.0	1.06	1.12	1.12
1700.0	4.12	4.15	0.03	32.82	1.55	1700.0	1.06	1.12	1.13
1800.0	4.23	4.30	0.07	29.92	1.85	1800.0	1.16	1.15	1.2
1900.0	4.40	4.46	0.06	26.16	1.95	1900.0	1.28	1.22	1.31
2000.0	4.52	4.52	0.00	22.99	2.05	2000.0	1.41	1.32	1.46
2100.0	4.53	4.50	0.03	21.93	1.99	2100.0	1.54	1.46	1.63
2200.0	4.40	4.39	0.01	21.70	0.86	2200.0	1.63	1.6	1.8
2300.0	4.33	4.28	0.06	22.72	0.30	2300.0	1.66	1.72	1.93
2400.0	4.26	4.39	0.13	25.71	0.45	2400.0	1.59	1.78	1.96
2500.0	4.44	4.88	0.44	27.11	1.02	2500.0	1.52	1.81	1.92

¹Total Loss = Insertion Loss + 3dB Splitter Loss

