

# 2 Way-0° Power Splitter/Combiner

# SBTC-2-25X+

## 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
	300.0	5.50					4.08	1.42	26.95
400.0	4.89	3.77	1.12	29.95	5.22	400.0	2.44	3.15	2.44
500.0	4.56	3.63	0.93	31.04	4.30	500.0	2.15	2.57	2.07
600.0	4.37	3.57	0.80	28.99	3.49	600.0	1.97	2.22	1.85
700.0	4.25	3.54	0.71	26.51	2.69	700.0	1.86	1.99	1.69
800.0	4.17	3.55	0.63	24.34	1.96	800.0	1.78	1.83	1.58
900.0	4.13	3.55	0.57	22.69	1.41	900.0	1.73	1.72	1.50
1000.0	4.09	3.57	0.52	21.39	0.90	1000.0	1.68	1.63	1.43
1050.0	4.08	3.59	0.49	20.80	0.62	1050.0	1.66	1.59	1.40
1100.0	4.07	3.60	0.47	20.30	0.45	1100.0	1.64	1.56	1.38
1200.0	4.05	3.63	0.42	19.44	0.08	1200.0	1.61	1.50	1.33
1300.0	4.04	3.66	0.38	18.74	0.20	1300.0	1.59	1.45	1.29
1400.0	4.03	3.69	0.34	18.22	0.43	1400.0	1.56	1.41	1.25
1450.0	4.02	3.70	0.32	18.00	0.56	1450.0	1.55	1.40	1.23
1500.0	4.02	3.72	0.30	17.83	0.64	1500.0	1.54	1.38	1.21
1600.0	4.01	3.75	0.26	17.55	0.77	1600.0	1.52	1.35	1.18
1700.0	4.00	3.78	0.22	17.40	0.81	1700.0	1.50	1.33	1.15
1800.0	4.00	3.80	0.19	17.38	0.83	1800.0	1.48	1.31	1.13
1850.0	3.99	3.81	0.17	17.44	0.79	1850.0	1.47	1.30	1.12
1900.0	3.98	3.83	0.16	17.51	0.76	1900.0	1.45	1.29	1.11
2000.0	3.97	3.85	0.13	17.77	0.65	2000.0	1.42	1.28	1.09
2050.0	3.97	3.85	0.11	17.94	0.56	2050.0	1.40	1.27	1.08
2100.0	3.96	3.86	0.09	18.17	0.46	2100.0	1.38	1.26	1.08
2200.0	3.95	3.88	0.07	18.71	0.19	2200.0	1.33	1.25	1.06
2300.0	3.94	3.89	0.05	19.32	0.11	2300.0	1.27	1.23	1.04
2400.0	3.95	3.91	0.03	19.88	0.46	2400.0	1.22	1.20	1.02
2450.0	3.95	3.93	0.02	20.00	0.67	2450.0	1.19	1.19	1.02
2500.0	3.97	3.95	0.02	19.96	0.90	2500.0	1.18	1.17	1.03
2600.0	4.03	4.02	0.00	19.18	1.31	2600.0	1.21	1.13	1.08
2700.0	4.15	4.14	0.01	17.56	1.79	2700.0	1.33	1.07	1.14
2800.0	4.35	4.34	0.00	15.57	2.22	2800.0	1.52	1.01	1.23
2900.0	4.66	4.65	0.01	13.63	2.61	2900.0	1.80	1.06	1.33
3000.0	5.10	5.09	0.01	11.93	2.93	3000.0	2.17	1.14	1.46
3100.0	5.68	5.67	0.01	10.51	3.21	3100.0	2.66	1.23	1.60
3200.0	6.39	6.38	0.01	9.40	3.26	3200.0	3.28	1.32	1.74
3300.0	7.23	7.22	0.01	8.54	3.27	3300.0	4.03	1.41	1.88
3400.0	8.14	8.14	0.00	7.89	2.93	3400.0	4.91	1.48	2.01
3500.0	9.11	9.12	0.01	7.39	2.31	3500.0	5.88	1.55	2.12

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

# 2 Way-0° Power Splitter/Combiner

# SBTC-2-25X+

## 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
	300.0	5.48					4.05	1.43	27.12
400.0	4.90	3.77	1.12	30.73	5.61	400.0	2.51	3.24	2.51
500.0	4.54	3.61	0.94	31.68	4.74	500.0	2.19	2.63	2.12
600.0	4.34	3.53	0.81	29.20	4.04	600.0	2.01	2.28	1.88
700.0	4.21	3.49	0.72	26.60	3.38	700.0	1.90	2.05	1.72
800.0	4.10	3.47	0.62	24.50	2.83	800.0	1.80	1.86	1.61
900.0	4.05	3.48	0.57	22.58	2.36	900.0	1.75	1.74	1.52
1000.0	4.01	3.49	0.52	21.30	1.88	1000.0	1.71	1.66	1.45
1050.0	3.99	3.50	0.49	20.72	1.70	1050.0	1.69	1.62	1.44
1100.0	3.98	3.52	0.47	20.20	1.56	1100.0	1.68	1.60	1.41
1200.0	3.96	3.54	0.42	19.42	1.32	1200.0	1.64	1.54	1.37
1300.0	3.93	3.56	0.38	18.71	1.12	1300.0	1.61	1.49	1.32
1400.0	3.91	3.57	0.34	18.17	0.98	1400.0	1.58	1.44	1.27
1450.0	3.90	3.58	0.31	17.94	0.90	1450.0	1.56	1.41	1.24
1500.0	3.88	3.59	0.29	17.79	0.86	1500.0	1.55	1.39	1.22
1600.0	3.86	3.61	0.25	17.58	0.84	1600.0	1.51	1.35	1.19
1700.0	3.84	3.62	0.21	17.40	0.88	1700.0	1.48	1.31	1.15
1800.0	3.81	3.64	0.18	17.41	0.97	1800.0	1.44	1.28	1.11
1850.0	3.80	3.64	0.16	17.46	1.01	1850.0	1.43	1.28	1.09
1900.0	3.80	3.65	0.14	17.50	1.06	1900.0	1.42	1.27	1.08
2000.0	3.77	3.66	0.11	17.75	1.22	2000.0	1.37	1.24	1.06
2050.0	3.77	3.67	0.10	17.89	1.35	2050.0	1.36	1.23	1.05
2100.0	3.76	3.68	0.09	18.06	1.45	2100.0	1.34	1.23	1.05
2200.0	3.76	3.69	0.06	18.53	1.77	2200.0	1.30	1.22	1.05
2300.0	3.75	3.71	0.04	19.01	2.15	2300.0	1.26	1.21	1.04
2400.0	3.77	3.73	0.04	19.41	2.59	2400.0	1.22	1.21	1.03
2450.0	3.77	3.74	0.02	19.48	2.86	2450.0	1.20	1.20	1.02
2500.0	3.78	3.76	0.02	19.46	3.12	2500.0	1.19	1.19	1.03
2600.0	3.83	3.81	0.02	18.85	3.65	2600.0	1.20	1.17	1.04
2700.0	3.92	3.90	0.02	17.50	4.28	2700.0	1.29	1.12	1.09
2800.0	4.08	4.06	0.03	15.72	4.84	2800.0	1.45	1.07	1.18
2900.0	4.34	4.30	0.04	13.85	5.35	2900.0	1.68	1.03	1.28
3000.0	4.73	4.69	0.04	12.13	5.94	3000.0	2.03	1.10	1.43
3100.0	5.29	5.25	0.04	10.66	6.41	3100.0	2.53	1.2	1.61
3200.0	6.00	5.97	0.02	9.48	6.71	3200.0	3.18	1.31	1.78
3300.0	6.86	6.84	0.02	8.58	6.88	3300.0	4.03	1.43	1.97
3400.0	7.84	7.85	0.02	7.88	6.78	3400.0	5.09	1.54	2.13
3500.0	8.86	8.91	0.05	7.37	6.32	3500.0	6.29	1.64	2.27

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

# 2 Way-0° Power Splitter/Combiner

# SBTC-2-25X+

## 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
300.0	5.51	4.10	1.41	26.71	5.77	300.0	3.01	4.28	3.12
400.0	4.87	3.76	1.12	29.29	5.02	400.0	2.38	3.09	2.40
500.0	4.56	3.63	0.93	30.59	4.06	500.0	2.09	2.52	2.03
600.0	4.37	3.58	0.80	28.91	3.14	600.0	1.92	2.17	1.81
700.0	4.26	3.56	0.70	26.50	2.31	700.0	1.82	1.95	1.66
800.0	4.20	3.58	0.62	24.30	1.51	800.0	1.74	1.79	1.55
900.0	4.15	3.59	0.56	22.65	0.89	900.0	1.69	1.68	1.47
1000.0	4.13	3.62	0.52	21.34	0.29	1000.0	1.65	1.60	1.40
1050.0	4.12	3.64	0.49	20.73	0.01	1050.0	1.63	1.56	1.38
1100.0	4.12	3.66	0.46	20.20	0.22	1100.0	1.62	1.53	1.35
1200.0	4.11	3.69	0.42	19.35	0.64	1200.0	1.59	1.47	1.31
1300.0	4.11	3.73	0.38	18.63	1.00	1300.0	1.58	1.44	1.27
1400.0	4.11	3.77	0.34	18.13	1.27	1400.0	1.57	1.41	1.24
1450.0	4.12	3.80	0.32	17.92	1.42	1450.0	1.56	1.40	1.23
1500.0	4.12	3.82	0.30	17.74	1.54	1500.0	1.56	1.39	1.21
1600.0	4.13	3.86	0.26	17.46	1.69	1600.0	1.55	1.37	1.19
1700.0	4.12	3.89	0.23	17.34	1.80	1700.0	1.54	1.35	1.17
1800.0	4.12	3.93	0.19	17.33	1.85	1800.0	1.52	1.34	1.15
1850.0	4.12	3.94	0.18	17.42	1.87	1850.0	1.51	1.34	1.15
1900.0	4.12	3.96	0.16	17.50	1.84	1900.0	1.50	1.33	1.14
2000.0	4.11	3.98	0.13	17.82	1.78	2000.0	1.47	1.33	1.13
2050.0	4.11	3.99	0.12	18.03	1.67	2050.0	1.45	1.32	1.12
2100.0	4.10	4.00	0.10	18.31	1.58	2100.0	1.43	1.31	1.11
2200.0	4.08	4.01	0.07	18.97	1.35	2200.0	1.37	1.29	1.09
2300.0	4.07	4.02	0.05	19.75	1.01	2300.0	1.30	1.26	1.05
2400.0	4.07	4.05	0.02	20.50	0.69	2400.0	1.22	1.22	1.01
2450.0	4.07	4.06	0.01	20.69	0.47	2450.0	1.19	1.19	1.02
2500.0	4.09	4.09	0.00	20.61	0.28	2500.0	1.18	1.17	1.05
2600.0	4.16	4.18	0.02	19.52	0.08	2600.0	1.23	1.10	1.11
2700.0	4.31	4.34	0.03	17.56	0.49	2700.0	1.38	1.04	1.20
2800.0	4.56	4.60	0.04	15.37	0.80	2800.0	1.62	1.05	1.29
2900.0	4.94	4.98	0.05	13.38	1.07	2900.0	1.94	1.13	1.41
3000.0	5.45	5.50	0.05	11.72	1.26	3000.0	2.37	1.22	1.54
3100.0	6.07	6.12	0.05	10.37	1.47	3100.0	2.89	1.31	1.66
3200.0	6.80	6.85	0.05	9.32	1.31	3200.0	3.51	1.39	1.77
3300.0	7.63	7.66	0.03	8.51	1.13	3300.0	4.23	1.46	1.88
3400.0	8.50	8.53	0.03	7.89	0.65	3400.0	5.01	1.51	1.98
3500.0	9.40	9.42	0.03	7.41	0.15	3500.0	5.84	1.55	2.05

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