

# 3 Way-0° Power Splitter/Combiner

# SCP-3-1

## 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)			VSWR (:1)			
	S-1	S-2	S-3			1-2	1-3	2-3	S	1	2	3
1	5.16	5.15	5.16	0.01	0.04	29.56	30.03	29.12	1.18	1.19	1.20	1.20
2	5.11	5.11	5.11	0.01	0.04	30.63	30.90	30.23	1.16	1.14	1.15	1.14
3	5.06	5.06	5.06	0.00	0.05	31.70	31.78	31.33	1.14	1.10	1.11	1.10
4	5.04	5.04	5.04	0.00	0.04	32.30	32.25	31.96	1.13	1.08	1.09	1.08
5	5.03	5.03	5.03	0.00	0.01	32.44	32.32	32.12	1.13	1.08	1.08	1.08
6	5.03	5.03	5.03	0.00	0.01	32.58	32.40	32.28	1.13	1.07	1.07	1.07
7	5.03	5.03	5.03	0.00	0.02	32.59	32.39	32.31	1.12	1.07	1.07	1.07
8	5.04	5.03	5.03	0.01	0.05	32.60	32.38	32.34	1.12	1.06	1.07	1.06
9	5.04	5.03	5.03	0.01	0.06	32.59	32.36	32.35	1.12	1.06	1.06	1.06
10	5.04	5.04	5.03	0.01	0.07	32.55	32.33	32.34	1.12	1.06	1.06	1.06
11	5.04	5.04	5.03	0.01	0.09	32.51	32.29	32.33	1.12	1.06	1.06	1.06
12	5.04	5.04	5.03	0.01	0.07	32.47	32.26	32.31	1.12	1.06	1.06	1.06
13	5.04	5.04	5.03	0.01	0.05	32.42	32.23	32.29	1.12	1.06	1.06	1.06
14	5.04	5.04	5.03	0.01	0.04	32.37	32.20	32.26	1.12	1.06	1.06	1.06
15	5.05	5.04	5.04	0.01	0.05	32.32	32.16	32.23	1.12	1.06	1.06	1.06
25	5.06	5.06	5.06	0.00	0.10	31.73	31.69	31.81	1.12	1.06	1.06	1.06
50	5.10	5.10	5.10	0.00	0.22	30.08	30.47	30.58	1.13	1.06	1.06	1.05
75	5.13	5.13	5.14	0.01	0.34	28.52	29.29	29.36	1.14	1.06	1.06	1.05
100	5.17	5.17	5.19	0.02	0.43	27.11	28.16	28.18	1.16	1.06	1.06	1.05
125	5.21	5.21	5.23	0.02	0.55	25.91	27.17	27.16	1.19	1.06	1.06	1.05
150	5.24	5.25	5.29	0.05	0.64	24.87	26.29	26.24	1.21	1.07	1.06	1.04
175	5.28	5.29	5.34	0.06	0.72	23.98	25.53	25.45	1.23	1.07	1.07	1.04
200	5.32	5.33	5.41	0.09	0.78	23.21	24.87	24.76	1.25	1.07	1.07	1.04
225	5.36	5.37	5.48	0.12	0.87	22.56	24.31	24.18	1.27	1.08	1.07	1.04
250	5.40	5.41	5.54	0.15	0.94	21.99	23.81	23.66	1.29	1.08	1.07	1.04
275	5.44	5.46	5.62	0.18	1.00	21.50	23.41	23.23	1.31	1.08	1.08	1.04
300	5.48	5.51	5.70	0.22	1.04	21.08	23.07	22.88	1.32	1.08	1.08	1.04
325	5.53	5.56	5.79	0.26	1.07	20.72	22.81	22.59	1.34	1.09	1.08	1.04
350	5.57	5.61	5.88	0.31	1.09	20.40	22.59	22.35	1.35	1.09	1.08	1.03
375	5.61	5.66	5.97	0.36	1.08	20.13	22.42	22.16	1.36	1.09	1.08	1.03
400	5.66	5.71	6.07	0.41	1.05	19.87	22.28	22.01	1.36	1.09	1.08	1.03
425	5.72	5.78	6.19	0.47	1.06	19.64	22.16	21.87	1.37	1.09	1.08	1.03
450	5.78	5.84	6.31	0.53	0.97	19.39	22.03	21.73	1.38	1.09	1.08	1.02
475	5.85	5.92	6.45	0.60	0.89	19.12	21.86	21.57	1.40	1.09	1.08	1.02
500	5.93	6.01	6.61	0.68	0.78	18.79	21.63	21.34	1.42	1.09	1.08	1.02
525	6.04	6.12	6.80	0.76	0.63	18.39	21.26	21.02	1.46	1.10	1.09	1.02
550	6.16	6.26	7.01	0.85	0.47	17.90	20.78	20.58	1.52	1.11	1.09	1.02
575	6.33	6.43	7.26	0.94	0.25	17.31	20.14	20.01	1.59	1.13	1.11	1.03
600	6.54	6.65	7.57	1.03	0.22	16.64	19.39	19.31	1.69	1.15	1.12	1.04
625	6.79	6.92	7.92	1.14	0.61	15.92	18.54	18.53	1.82	1.17	1.14	1.05
650	7.11	7.23	8.34	1.24	1.05	15.15	17.66	17.67	1.98	1.20	1.17	1.07
675	7.49	7.63	8.85	1.36	1.56	14.38	16.77	16.83	2.17	1.23	1.19	1.09
700	7.95	8.10	9.43	1.49	2.13	13.64	15.93	16.00	2.40	1.26	1.22	1.11

<sup>1</sup> Total Loss = Insertion Loss+ 4.8dB Splitter Loss

# 3 Way-0° Power Splitter/Combiner

# SCP-3-1

## 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)			VSWR (:1)			
	S-1	S-2	S-3			1-2	1-3	2-3	S	1	2	3
1	5.40	5.39	5.38	0.02	0.09	25.82	26.91	25.52	1.29	1.41	1.43	1.41
2	5.31	5.31	5.30	0.02	0.05	27.35	28.32	27.09	1.25	1.31	1.32	1.31
3	5.22	5.22	5.21	0.01	0.02	28.89	29.72	28.66	1.21	1.23	1.24	1.23
4	5.16	5.16	5.15	0.01	0.01	29.98	30.73	29.73	1.18	1.19	1.20	1.19
5	5.13	5.13	5.12	0.01	0.01	30.63	31.35	30.31	1.17	1.16	1.17	1.16
6	5.09	5.09	5.08	0.01	0.02	31.28	31.97	30.88	1.16	1.14	1.15	1.14
7	5.07	5.07	5.06	0.01	0.02	31.67	32.29	31.21	1.15	1.13	1.14	1.13
8	5.05	5.05	5.04	0.01	0.03	32.07	32.61	31.55	1.15	1.12	1.12	1.12
9	5.04	5.04	5.03	0.01	0.03	32.37	32.85	31.81	1.14	1.11	1.11	1.11
10	5.03	5.03	5.02	0.01	0.04	32.59	33.01	32.01	1.14	1.10	1.11	1.10
11	5.02	5.02	5.01	0.01	0.05	32.80	33.17	32.20	1.13	1.09	1.10	1.09
12	5.02	5.02	5.01	0.01	0.05	32.93	33.24	32.33	1.13	1.08	1.09	1.08
13	5.01	5.01	5.00	0.01	0.05	33.05	33.31	32.46	1.13	1.08	1.09	1.08
14	5.01	5.01	5.00	0.01	0.06	33.13	33.36	32.56	1.13	1.07	1.08	1.07
15	5.01	5.01	4.99	0.02	0.07	33.18	33.39	32.64	1.13	1.07	1.08	1.07
25	5.00	5.01	4.99	0.02	0.10	33.07	33.16	32.76	1.12	1.05	1.06	1.05
50	5.02	5.02	5.02	0.00	0.20	31.44	31.87	31.78	1.13	1.04	1.04	1.03
75	5.05	5.05	5.05	0.00	0.28	29.66	30.49	30.46	1.15	1.05	1.04	1.04
100	5.08	5.08	5.09	0.01	0.38	28.05	29.13	29.12	1.17	1.06	1.05	1.04
125	5.10	5.11	5.14	0.04	0.47	26.65	27.91	27.90	1.19	1.06	1.05	1.04
150	5.14	5.14	5.18	0.04	0.54	25.46	26.85	26.83	1.22	1.06	1.06	1.04
175	5.17	5.18	5.23	0.06	0.63	24.46	25.95	25.93	1.25	1.07	1.07	1.04
200	5.20	5.21	5.29	0.09	0.67	23.63	25.19	25.16	1.28	1.08	1.07	1.05
225	5.23	5.25	5.35	0.12	0.75	22.94	24.58	24.53	1.30	1.08	1.08	1.05
250	5.26	5.28	5.41	0.15	0.82	22.36	24.06	24.00	1.32	1.08	1.08	1.05
275	5.29	5.32	5.48	0.19	0.86	21.86	23.63	23.56	1.34	1.08	1.08	1.05
300	5.32	5.35	5.55	0.23	0.88	21.44	23.29	23.21	1.35	1.09	1.08	1.05
325	5.36	5.39	5.63	0.27	0.90	21.08	23.02	22.93	1.37	1.09	1.08	1.05
350	5.39	5.43	5.71	0.32	0.89	20.74	22.78	22.68	1.38	1.09	1.08	1.05
375	5.42	5.47	5.79	0.37	0.93	20.45	22.59	22.47	1.39	1.09	1.08	1.04
400	5.46	5.51	5.89	0.43	0.99	20.16	22.40	22.29	1.39	1.09	1.08	1.04
425	5.50	5.56	5.99	0.49	1.05	19.89	22.23	22.12	1.40	1.09	1.08	1.04
450	5.55	5.62	6.10	0.55	1.15	19.60	22.04	21.95	1.41	1.09	1.08	1.04
475	5.60	5.68	6.23	0.63	1.20	19.29	21.82	21.75	1.43	1.10	1.08	1.03
500	5.67	5.75	6.38	0.71	1.30	18.91	21.52	21.47	1.45	1.10	1.08	1.03
525	5.76	5.85	6.55	0.79	1.35	18.44	21.07	21.08	1.49	1.11	1.09	1.03
550	5.88	5.98	6.75	0.87	1.47	17.87	20.50	20.55	1.55	1.12	1.10	1.03
575	6.03	6.14	6.99	0.96	1.65	17.20	19.77	19.88	1.63	1.13	1.11	1.04
600	6.22	6.34	7.29	1.07	2.05	16.45	18.94	19.09	1.75	1.16	1.13	1.04
625	6.46	6.59	7.63	1.18	2.47	15.65	18.04	18.22	1.89	1.18	1.15	1.06
650	6.77	6.90	8.04	1.28	3.01	14.84	17.11	17.31	2.08	1.21	1.17	1.08
675	7.14	7.28	8.54	1.40	3.62	14.03	16.20	16.42	2.30	1.25	1.20	1.10
700	7.61	7.75	9.13	1.53	4.31	13.26	15.36	15.57	2.58	1.29	1.24	1.12

<sup>1</sup> Total Loss = Insertion Loss+ 4.8dB Splitter Loss

# 3 Way-0° Power Splitter/Combiner

# SCP-3-1

## 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-3			1-2	1-3	2-3	S	1	2	3
1	5.20	5.19	5.19	0.01	0.07	30.23	29.79	29.67	1.18	1.17	1.17	1.17
2	5.18	5.17	5.17	0.01	0.05	30.52	30.16	30.11	1.17	1.15	1.15	1.15
3	5.17	5.16	5.16	0.01	0.02	30.81	30.53	30.56	1.16	1.13	1.13	1.13
4	5.16	5.15	5.15	0.01	0.01	30.96	30.71	30.80	1.15	1.12	1.12	1.12
5	5.15	5.15	5.15	0.00	0.01	30.97	30.72	30.85	1.15	1.11	1.11	1.11
6	5.15	5.15	5.15	0.00	0.01	30.98	30.73	30.89	1.15	1.11	1.11	1.11
7	5.15	5.15	5.15	0.00	0.02	30.96	30.71	30.89	1.15	1.11	1.11	1.11
8	5.15	5.15	5.15	0.00	0.05	30.95	30.70	30.88	1.15	1.11	1.11	1.11
9	5.15	5.15	5.15	0.00	0.06	30.92	30.67	30.87	1.15	1.11	1.11	1.11
10	5.16	5.16	5.15	0.01	0.05	30.87	30.64	30.84	1.15	1.11	1.11	1.11
11	5.16	5.16	5.15	0.01	0.06	30.82	30.61	30.82	1.15	1.11	1.11	1.11
12	5.16	5.16	5.15	0.01	0.06	30.78	30.59	30.80	1.15	1.11	1.11	1.10
13	5.16	5.16	5.16	0.00	0.06	30.75	30.56	30.79	1.15	1.11	1.11	1.10
14	5.16	5.16	5.16	0.00	0.06	30.70	30.53	30.76	1.15	1.11	1.10	1.10
15	5.17	5.16	5.16	0.01	0.09	30.65	30.50	30.73	1.15	1.11	1.10	1.10
25	5.18	5.18	5.18	0.00	0.14	30.15	30.11	30.36	1.14	1.11	1.10	1.10
50	5.23	5.22	5.22	0.01	0.31	28.72	29.12	29.29	1.15	1.11	1.10	1.10
75	5.27	5.27	5.27	0.00	0.45	27.34	28.14	28.20	1.16	1.11	1.10	1.10
100	5.31	5.31	5.32	0.01	0.60	26.10	27.20	27.19	1.17	1.10	1.10	1.09
125	5.36	5.36	5.38	0.02	0.76	25.03	26.36	26.29	1.18	1.09	1.10	1.08
150	5.40	5.41	5.44	0.04	0.87	24.10	25.64	25.50	1.20	1.10	1.09	1.08
175	5.45	5.46	5.50	0.05	1.01	23.29	24.99	24.80	1.21	1.10	1.09	1.07
200	5.50	5.51	5.57	0.07	1.13	22.58	24.42	24.19	1.22	1.10	1.09	1.07
225	5.55	5.57	5.65	0.10	1.25	21.97	23.91	23.64	1.24	1.10	1.09	1.06
250	5.61	5.63	5.73	0.12	1.35	21.43	23.46	23.16	1.25	1.09	1.09	1.06
275	5.67	5.70	5.82	0.15	1.46	20.95	23.08	22.75	1.27	1.10	1.09	1.05
300	5.73	5.76	5.91	0.18	1.51	20.55	22.78	22.41	1.28	1.10	1.09	1.05
325	5.79	5.83	6.01	0.22	1.59	20.22	22.55	22.15	1.29	1.10	1.09	1.05
350	5.85	5.90	6.11	0.26	1.63	19.93	22.36	21.92	1.30	1.10	1.09	1.04
375	5.92	5.97	6.22	0.30	1.68	19.70	22.24	21.76	1.30	1.09	1.09	1.04
400	5.98	6.05	6.33	0.35	1.69	19.50	22.16	21.65	1.31	1.09	1.09	1.03
425	6.06	6.13	6.46	0.40	1.70	19.33	22.11	21.57	1.32	1.09	1.09	1.03
450	6.14	6.22	6.59	0.45	1.64	19.18	22.08	21.52	1.33	1.10	1.09	1.03
475	6.23	6.32	6.74	0.51	1.60	19.01	22.05	21.46	1.34	1.10	1.09	1.03
500	6.33	6.42	6.91	0.58	1.50	18.82	21.95	21.37	1.37	1.10	1.09	1.03
525	6.45	6.56	7.11	0.66	1.40	18.58	21.77	21.22	1.40	1.10	1.10	1.03
550	6.59	6.71	7.32	0.74	1.19	18.25	21.47	20.97	1.44	1.11	1.10	1.03
575	6.77	6.89	7.57	0.81	1.02	17.82	20.99	20.58	1.50	1.13	1.11	1.04
600	6.98	7.12	7.88	0.90	0.74	17.29	20.36	20.06	1.59	1.14	1.13	1.05
625	7.23	7.38	8.22	1.00	0.43	16.68	19.60	19.40	1.69	1.16	1.14	1.06
650	7.54	7.69	8.63	1.10	0.23	16.00	18.75	18.63	1.81	1.19	1.16	1.08
675	7.91	8.08	9.11	1.20	0.61	15.28	17.86	17.82	1.96	1.21	1.19	1.10
700	8.35	8.52	9.66	1.31	1.10	14.54	16.99	16.99	2.13	1.24	1.21	1.11

<sup>1</sup> Total Loss = Insertion Loss+ 4.8dB Splitter Loss