

# 4 Way-0° Power Splitter/Combiner

# SCP-4-4

## 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	S-4			1-2	2-3	3-4	S	1	2	3	4
10	7.97	7.97	7.98	7.99	0.02	0.06	22.17	8.58	22.50	3.97	1.30	1.29	1.30	1.30
50	7.98	7.98	8.01	8.01	0.03	0.12	16.31	12.80	16.31	3.88	1.29	1.28	1.28	1.29
100	7.99	7.98	8.02	8.02	0.04	0.22	15.68	15.00	15.64	3.80	1.29	1.29	1.29	1.29
150	7.98	7.98	8.00	8.00	0.03	0.33	15.69	15.79	15.64	3.72	1.29	1.29	1.29	1.30
200	7.95	7.95	7.96	7.97	0.02	0.46	15.87	16.21	15.79	3.63	1.30	1.29	1.30	1.30
250	7.91	7.91	7.91	7.91	0.01	0.53	16.15	16.52	16.06	3.53	1.30	1.29	1.30	1.31
300	7.86	7.87	7.85	7.85	0.01	0.63	16.54	16.81	16.43	3.42	1.30	1.30	1.31	1.31
350	7.79	7.80	7.77	7.77	0.03	0.68	17.03	17.12	16.89	3.29	1.31	1.30	1.31	1.32
400	7.72	7.73	7.69	7.69	0.05	0.75	17.63	17.47	17.46	3.16	1.31	1.30	1.32	1.32
450	7.63	7.65	7.59	7.59	0.06	0.84	18.36	17.87	18.14	3.01	1.31	1.30	1.32	1.33
500	7.54	7.57	7.48	7.48	0.10	0.86	19.25	18.34	18.98	2.86	1.31	1.30	1.32	1.33
525	7.50	7.53	7.43	7.42	0.12	0.89	19.77	18.62	19.46	2.77	1.31	1.30	1.32	1.33
550	7.45	7.49	7.37	7.36	0.13	0.91	20.33	18.91	20.00	2.69	1.31	1.30	1.32	1.33
575	7.40	7.44	7.31	7.30	0.14	0.89	20.96	19.24	20.57	2.61	1.31	1.30	1.32	1.33
600	7.34	7.40	7.25	7.24	0.16	0.90	21.64	19.60	21.22	2.52	1.31	1.30	1.32	1.33
625	7.30	7.35	7.19	7.17	0.18	0.93	22.41	20.00	21.93	2.43	1.30	1.29	1.32	1.32
650	7.24	7.31	7.13	7.11	0.20	0.93	23.23	20.43	22.69	2.35	1.30	1.29	1.32	1.32
675	7.19	7.27	7.06	7.05	0.22	0.92	24.12	20.92	23.53	2.26	1.29	1.28	1.31	1.32
700	7.14	7.23	7.00	6.98	0.25	0.92	25.08	21.46	24.44	2.17	1.29	1.28	1.31	1.31
725	7.10	7.18	6.94	6.92	0.27	0.93	26.06	22.07	25.38	2.09	1.28	1.27	1.30	1.30
750	7.05	7.15	6.88	6.85	0.30	0.87	27.01	22.76	26.35	2.00	1.28	1.27	1.30	1.30
775	7.01	7.12	6.82	6.79	0.33	0.89	27.82	23.55	27.24	1.91	1.27	1.26	1.29	1.29
800	6.98	7.09	6.76	6.73	0.36	0.89	28.32	24.43	27.94	1.83	1.26	1.25	1.28	1.28
820	6.95	7.07	6.72	6.69	0.38	0.77	28.44	25.24	28.31	1.76	1.25	1.24	1.27	1.27
840	6.92	7.05	6.68	6.65	0.40	0.74	28.28	26.15	28.40	1.70	1.24	1.23	1.27	1.26
850	6.91	7.04	6.66	6.62	0.42	0.69	28.07	26.65	28.35	1.67	1.24	1.23	1.26	1.26
860	6.90	7.04	6.65	6.61	0.43	0.68	27.83	27.21	28.24	1.64	1.24	1.23	1.26	1.25
880	6.88	7.03	6.61	6.57	0.46	0.64	27.26	28.42	27.86	1.57	1.23	1.22	1.25	1.24
900	6.86	7.02	6.58	6.53	0.49	0.75	26.60	29.83	27.33	1.51	1.22	1.21	1.24	1.23
920	6.85	7.02	6.55	6.50	0.52	0.90	25.92	31.47	26.72	1.46	1.21	1.20	1.23	1.22
940	6.84	7.02	6.52	6.47	0.55	1.05	25.26	33.36	26.10	1.40	1.20	1.19	1.22	1.21
950	6.84	7.02	6.51	6.45	0.57	1.12	24.95	34.37	25.80	1.37	1.19	1.19	1.21	1.21
960	6.84	7.03	6.50	6.44	0.59	1.19	24.66	35.36	25.50	1.35	1.19	1.18	1.21	1.20
980	6.85	7.04	6.48	6.42	0.63	1.31	24.10	36.80	24.94	1.29	1.18	1.17	1.19	1.19
1000	6.85	7.06	6.47	6.40	0.66	1.49	23.61	36.52	24.46	1.24	1.17	1.16	1.18	1.18
1020	6.86	7.08	6.45	6.38	0.70	1.68	23.19	34.69	24.00	1.19	1.16	1.15	1.17	1.17
1040	6.88	7.11	6.45	6.38	0.74	1.81	22.82	32.53	23.63	1.15	1.15	1.15	1.16	1.16
1050	6.88	7.13	6.45	6.37	0.76	1.93	22.66	31.51	23.46	1.12	1.15	1.14	1.16	1.15
1075	6.91	7.18	6.45	6.37	0.81	2.20	22.35	29.27	23.18	1.07	1.14	1.14	1.15	1.14
1100	6.96	7.23	6.46	6.38	0.86	2.50	22.11	27.39	23.02	1.05	1.13	1.13	1.14	1.14
1125	7.01	7.30	6.48	6.40	0.91	2.80	21.93	25.76	22.96	1.08	1.13	1.13	1.13	1.14
1150	7.07	7.38	6.50	6.42	0.97	3.15	21.83	24.40	23.04	1.13	1.13	1.13	1.13	1.14
1175	7.14	7.48	6.53	6.45	1.03	3.49	21.74	23.22	23.24	1.20	1.13	1.14	1.14	1.15
1200	7.24	7.60	6.59	6.50	1.09	3.95	21.62	22.18	23.52	1.28	1.14	1.14	1.15	1.16
1250	7.47	7.87	6.74	6.65	1.22	4.84	20.92	20.49	23.95	1.48	1.17	1.17	1.18	1.20
1300	7.83	8.27	6.99	6.90	1.37	6.23	19.23	19.21	22.92	1.76	1.22	1.22	1.22	1.25
1350	8.33	8.84	7.39	7.31	1.53	7.86	16.79	18.30	20.03	2.18	1.27	1.28	1.28	1.30
1400	9.09	9.64	8.01	7.94	1.70	9.62	14.26	17.79	16.72	2.81	1.34	1.35	1.35	1.35
1450	10.12	10.72	8.91	8.84	1.88	11.79	12.04	17.66	13.88	3.76	1.42	1.43	1.43	1.39

<sup>1</sup> Total Loss = Insertion Loss+ 6dB Splitter Loss

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# 4 Way-0° Power Splitter/Combiner

# SCP-4-4

## 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	S-4			1-2	2-3	3-4	S	1	2	3	4
10	7.96	7.96	7.98	7.98	0.03	0.09	29.39	8.55	30.13	3.97	1.42	1.42	1.43	1.43
50	7.98	7.98	8.00	8.00	0.03	0.16	17.53	12.76	17.52	3.90	1.34	1.34	1.34	1.34
100	7.96	7.96	7.99	7.98	0.03	0.35	16.65	14.94	16.62	3.80	1.34	1.34	1.34	1.35
150	7.95	7.95	7.96	7.96	0.01	0.51	16.60	15.74	16.57	3.73	1.35	1.34	1.34	1.35
200	7.92	7.91	7.92	7.91	0.01	0.72	16.75	16.14	16.69	3.64	1.35	1.34	1.34	1.35
250	7.87	7.87	7.86	7.85	0.02	0.86	17.01	16.43	16.94	3.54	1.34	1.33	1.34	1.35
300	7.83	7.82	7.81	7.79	0.03	0.98	17.39	16.71	17.30	3.44	1.34	1.34	1.35	1.35
350	7.76	7.75	7.72	7.70	0.05	1.13	17.88	17.01	17.76	3.32	1.34	1.34	1.35	1.35
400	7.67	7.68	7.63	7.61	0.07	1.29	18.48	17.34	18.33	3.18	1.34	1.33	1.35	1.36
450	7.59	7.59	7.53	7.50	0.08	1.41	19.23	17.72	19.02	3.04	1.34	1.33	1.35	1.36
500	7.49	7.50	7.41	7.39	0.12	1.51	20.14	18.18	19.87	2.88	1.33	1.33	1.35	1.35
525	7.44	7.46	7.35	7.32	0.13	1.57	20.67	18.44	20.36	2.80	1.33	1.32	1.35	1.35
550	7.39	7.41	7.29	7.26	0.15	1.62	21.24	18.72	20.90	2.72	1.33	1.32	1.35	1.35
575	7.34	7.36	7.23	7.20	0.17	1.66	21.87	19.05	21.48	2.63	1.32	1.32	1.34	1.35
600	7.29	7.32	7.17	7.13	0.19	1.65	22.54	19.39	22.11	2.55	1.32	1.31	1.34	1.34
625	7.23	7.27	7.11	7.07	0.20	1.72	23.28	19.78	22.79	2.47	1.31	1.31	1.33	1.34
650	7.18	7.22	7.04	7.00	0.22	1.68	24.05	20.20	23.51	2.38	1.31	1.30	1.33	1.34
675	7.13	7.17	6.98	6.93	0.24	1.72	24.83	20.67	24.26	2.29	1.30	1.30	1.33	1.33
700	7.08	7.13	6.92	6.86	0.27	1.77	25.61	21.21	25.00	2.21	1.30	1.30	1.33	1.32
725	7.03	7.09	6.86	6.80	0.29	1.80	26.28	21.79	25.69	2.12	1.29	1.29	1.32	1.32
750	6.98	7.05	6.79	6.73	0.32	1.79	26.77	22.46	26.25	2.03	1.28	1.28	1.31	1.31
775	6.93	7.01	6.73	6.66	0.35	1.81	27.00	23.23	26.62	1.95	1.27	1.26	1.30	1.30
800	6.89	6.97	6.66	6.59	0.37	1.82	26.93	24.09	26.70	1.86	1.26	1.25	1.29	1.29
820	6.86	6.95	6.62	6.55	0.39	1.81	26.63	24.86	26.62	1.79	1.25	1.25	1.28	1.28
840	6.83	6.92	6.58	6.51	0.42	1.81	26.20	25.74	26.33	1.73	1.25	1.24	1.27	1.27
850	6.82	6.91	6.56	6.48	0.43	1.77	25.96	26.21	26.15	1.70	1.24	1.24	1.27	1.27
860	6.81	6.91	6.54	6.47	0.44	1.73	25.70	26.74	25.94	1.67	1.24	1.23	1.26	1.26
880	6.78	6.89	6.50	6.42	0.47	1.76	25.10	27.94	25.45	1.60	1.23	1.22	1.25	1.25
900	6.76	6.88	6.47	6.38	0.50	1.73	24.49	29.30	24.91	1.54	1.22	1.21	1.24	1.24
920	6.75	6.87	6.43	6.34	0.53	1.70	23.91	30.90	24.39	1.48	1.21	1.20	1.23	1.23
940	6.73	6.87	6.40	6.30	0.56	1.69	23.37	32.80	23.88	1.43	1.20	1.19	1.22	1.22
950	6.73	6.87	6.38	6.29	0.58	1.69	23.12	33.86	23.63	1.40	1.19	1.19	1.21	1.21
960	6.73	6.87	6.38	6.27	0.60	1.65	22.87	34.96	23.40	1.37	1.19	1.19	1.20	1.21
980	6.72	6.88	6.35	6.24	0.63	1.65	22.42	36.92	22.96	1.31	1.18	1.18	1.19	1.20
1000	6.72	6.88	6.33	6.22	0.66	1.74	22.03	37.39	22.55	1.26	1.17	1.16	1.18	1.19
1020	6.73	6.91	6.31	6.20	0.71	1.85	21.70	35.77	22.23	1.21	1.16	1.15	1.17	1.17
1040	6.73	6.92	6.31	6.19	0.73	1.91	21.37	33.34	21.92	1.16	1.15	1.15	1.16	1.17
1050	6.74	6.94	6.30	6.19	0.76	1.89	21.23	32.22	21.78	1.14	1.15	1.15	1.16	1.16
1075	6.77	6.98	6.30	6.18	0.81	2.02	20.97	29.79	21.56	1.09	1.14	1.14	1.15	1.15
1100	6.80	7.03	6.30	6.17	0.85	2.15	20.79	27.76	21.43	1.05	1.13	1.14	1.14	1.15
1125	6.84	7.09	6.31	6.18	0.90	2.25	20.63	26.00	21.38	1.06	1.13	1.13	1.14	1.15
1150	6.89	7.16	6.33	6.19	0.96	2.45	20.56	24.56	21.45	1.11	1.13	1.13	1.14	1.15
1175	6.96	7.24	6.36	6.22	1.02	2.90	20.51	23.33	21.62	1.18	1.14	1.14	1.14	1.16
1200	7.04	7.34	6.39	6.26	1.08	3.37	20.41	22.25	21.84	1.26	1.15	1.15	1.15	1.18
1250	7.26	7.58	6.52	6.39	1.20	4.53	19.88	20.45	22.23	1.45	1.18	1.17	1.18	1.21
1300	7.56	7.94	6.74	6.60	1.34	5.69	18.47	19.09	21.56	1.72	1.22	1.21	1.23	1.26
1350	8.04	8.47	7.11	6.97	1.50	7.25	16.25	18.11	19.20	2.12	1.28	1.27	1.29	1.31
1400	8.75	9.23	7.69	7.56	1.67	8.87	13.82	17.53	16.16	2.74	1.34	1.34	1.36	1.36
1450	9.74	10.26	8.53	8.43	1.83	10.94	11.62	17.30	13.40	3.68	1.41	1.43	1.43	1.40

<sup>1</sup> Total Loss = Insertion Loss+ 6dB Splitter Loss

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# 4 Way-0° Power Splitter/Combiner

# SCP-4-4

## 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	S-4			1-2	2-3	3-4	S	1	2	3	4
10	7.96	7.97	7.99	7.98	0.02	0.11	22.38	8.61	22.46	3.96	1.33	1.33	1.34	1.34
50	7.98	7.99	8.01	8.01	0.03	0.18	15.00	12.83	14.96	3.87	1.24	1.24	1.24	1.24
100	8.00	8.01	8.04	8.04	0.03	0.32	14.33	15.03	14.27	3.80	1.22	1.22	1.21	1.22
150	8.00	8.00	8.02	8.02	0.02	0.40	14.34	15.84	14.27	3.72	1.22	1.22	1.22	1.22
200	7.97	7.99	7.99	7.99	0.02	0.56	14.52	16.27	14.44	3.62	1.22	1.22	1.22	1.23
250	7.93	7.95	7.95	7.94	0.02	0.64	14.80	16.59	14.70	3.52	1.23	1.23	1.23	1.24
300	7.88	7.91	7.89	7.89	0.02	0.75	15.16	16.90	15.04	3.40	1.24	1.23	1.24	1.25
350	7.83	7.85	7.82	7.81	0.04	0.86	15.60	17.23	15.46	3.27	1.25	1.24	1.26	1.26
400	7.75	7.78	7.74	7.73	0.05	0.91	16.13	17.59	15.97	3.13	1.26	1.25	1.26	1.27
450	7.67	7.71	7.64	7.64	0.07	1.02	16.77	18.00	16.57	2.99	1.26	1.25	1.27	1.28
500	7.59	7.63	7.54	7.53	0.10	1.09	17.56	18.50	17.31	2.83	1.27	1.26	1.28	1.28
525	7.54	7.59	7.48	7.47	0.12	1.11	18.01	18.78	17.73	2.75	1.27	1.26	1.29	1.29
550	7.49	7.55	7.43	7.41	0.13	1.10	18.51	19.09	18.20	2.67	1.27	1.26	1.29	1.29
575	7.44	7.51	7.37	7.36	0.15	1.11	19.06	19.43	18.71	2.58	1.28	1.27	1.29	1.29
600	7.39	7.47	7.31	7.30	0.16	1.10	19.66	19.80	19.28	2.50	1.28	1.27	1.29	1.29
625	7.35	7.43	7.25	7.24	0.19	1.06	20.35	20.22	19.90	2.41	1.28	1.26	1.29	1.29
650	7.29	7.38	7.20	7.18	0.21	1.07	21.10	20.67	20.60	2.32	1.28	1.26	1.29	1.29
675	7.25	7.34	7.14	7.12	0.23	1.01	21.94	21.18	21.37	2.24	1.27	1.26	1.29	1.29
700	7.20	7.31	7.08	7.05	0.25	1.06	22.88	21.73	22.24	2.15	1.27	1.26	1.29	1.29
725	7.16	7.27	7.02	6.99	0.27	1.03	23.92	22.37	23.21	2.06	1.27	1.26	1.28	1.28
750	7.11	7.24	6.96	6.94	0.30	0.96	25.11	23.08	24.29	1.98	1.26	1.25	1.28	1.28
775	7.07	7.20	6.90	6.88	0.33	1.01	26.42	23.90	25.50	1.89	1.26	1.24	1.28	1.27
800	7.03	7.17	6.85	6.82	0.36	1.04	27.84	24.83	26.85	1.81	1.25	1.24	1.27	1.26
820	7.01	7.16	6.82	6.78	0.38	1.02	29.03	25.68	28.02	1.74	1.24	1.23	1.26	1.26
840	6.99	7.15	6.78	6.74	0.41	1.07	30.17	26.64	29.24	1.68	1.24	1.23	1.26	1.25
850	6.98	7.14	6.76	6.73	0.41	1.09	30.64	27.16	29.86	1.65	1.23	1.22	1.25	1.24
860	6.97	7.14	6.75	6.71	0.43	1.14	31.07	27.74	30.44	1.62	1.23	1.22	1.25	1.24
880	6.95	7.13	6.71	6.68	0.46	1.13	31.57	29.00	31.47	1.55	1.22	1.21	1.24	1.23
900	6.94	7.13	6.69	6.65	0.49	1.21	31.45	30.47	32.08	1.50	1.21	1.21	1.23	1.22
920	6.93	7.13	6.66	6.61	0.52	1.20	31.02	32.19	32.18	1.44	1.21	1.20	1.22	1.21
940	6.93	7.14	6.64	6.59	0.55	1.20	30.24	34.16	31.82	1.38	1.20	1.19	1.21	1.20
950	6.93	7.14	6.62	6.57	0.56	1.24	29.79	35.17	31.48	1.36	1.19	1.19	1.21	1.19
960	6.93	7.15	6.61	6.56	0.59	1.27	29.37	36.08	31.06	1.33	1.19	1.18	1.20	1.19
980	6.94	7.16	6.60	6.54	0.62	1.39	28.54	37.03	30.29	1.28	1.18	1.18	1.19	1.18
1000	6.95	7.18	6.59	6.53	0.65	1.57	27.75	36.38	29.39	1.23	1.17	1.17	1.18	1.17
1020	6.96	7.21	6.58	6.52	0.70	1.71	27.09	34.33	28.64	1.18	1.16	1.16	1.17	1.16
1040	6.98	7.25	6.59	6.52	0.73	1.87	26.52	32.17	28.00	1.13	1.15	1.15	1.16	1.15
1050	6.98	7.26	6.58	6.52	0.75	1.94	26.25	31.20	27.73	1.11	1.15	1.15	1.16	1.14
1075	7.02	7.32	6.60	6.52	0.79	2.17	25.79	29.02	27.22	1.07	1.14	1.14	1.15	1.13
1100	7.07	7.38	6.61	6.53	0.85	2.50	25.39	27.25	26.92	1.05	1.13	1.14	1.14	1.12
1125	7.12	7.46	6.64	6.55	0.90	2.82	25.14	25.68	26.80	1.09	1.13	1.13	1.13	1.12
1150	7.19	7.55	6.67	6.58	0.97	3.10	25.01	24.39	26.93	1.15	1.13	1.13	1.12	1.12
1175	7.28	7.64	6.71	6.62	1.02	3.48	24.91	23.27	27.27	1.22	1.13	1.14	1.13	1.13
1200	7.37	7.77	6.77	6.68	1.08	3.90	24.71	22.27	27.73	1.30	1.14	1.14	1.13	1.14
1250	7.64	8.07	6.95	6.85	1.22	4.75	23.60	20.67	28.37	1.50	1.17	1.17	1.16	1.17
1300	8.00	8.49	7.22	7.13	1.36	5.79	21.19	19.48	25.93	1.80	1.21	1.22	1.21	1.22
1350	8.54	9.10	7.66	7.58	1.52	6.97	18.15	18.66	21.65	2.23	1.28	1.29	1.27	1.28
1400	9.34	9.95	8.33	8.26	1.69	8.42	15.31	18.24	17.79	2.88	1.35	1.37	1.35	1.34
1450	10.41	11.08	9.26	9.21	1.87	10.59	12.95	18.17	14.79	3.84	1.44	1.46	1.44	1.39

<sup>1</sup> Total Loss = Insertion Loss+ 6dB Splitter Loss

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