

4 Way-0° Power Splitter/Combiner

SCP-4-1

Typical Performance Data

TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = +25°C

FREQ. (MHz)	TOTAL LOSS ¹ (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
1	6.67	6.68	6.68	6.74	0.07	0.70	27.19	46.06	27.93	1.22	1.35	1.35	1.34	1.34
2	6.57	6.58	6.58	6.62	0.05	0.49	29.39	47.38	29.91	1.16	1.25	1.25	1.24	1.24
3	6.48	6.49	6.48	6.51	0.03	0.30	31.39	48.45	31.71	1.12	1.18	1.18	1.18	1.18
4	6.45	6.46	6.46	6.48	0.03	0.26	32.03	47.91	32.25	1.11	1.16	1.16	1.16	1.16
5	6.43	6.45	6.45	6.46	0.03	0.22	32.55	47.40	32.69	1.10	1.15	1.15	1.14	1.14
6	6.43	6.44	6.44	6.45	0.03	0.18	32.77	47.01	32.84	1.09	1.14	1.14	1.14	1.14
7	6.43	6.43	6.44	6.45	0.02	0.15	32.91	46.58	32.94	1.09	1.13	1.13	1.13	1.13
8	6.43	6.43	6.43	6.45	0.02	0.13	32.95	46.08	32.98	1.08	1.13	1.13	1.13	1.13
9	6.43	6.43	6.43	6.44	0.02	0.12	32.97	45.63	32.98	1.08	1.13	1.13	1.12	1.12
10	6.43	6.43	6.43	6.44	0.02	0.13	32.97	45.22	32.97	1.08	1.12	1.12	1.12	1.12
20	6.44	6.45	6.46	6.46	0.02	0.17	32.41	41.66	32.29	1.08	1.11	1.11	1.11	1.11
30	6.46	6.47	6.48	6.49	0.03	0.25	31.69	39.06	31.44	1.08	1.11	1.11	1.11	1.11
40	6.48	6.50	6.50	6.51	0.03	0.31	30.95	37.04	30.61	1.09	1.11	1.11	1.11	1.11
50	6.50	6.51	6.52	6.52	0.03	0.36	30.24	35.45	29.83	1.10	1.11	1.11	1.10	1.10
60	6.51	6.52	6.53	6.54	0.03	0.42	29.57	34.13	29.09	1.11	1.10	1.10	1.10	1.10
70	6.53	6.53	6.55	6.56	0.03	0.49	28.92	32.99	28.39	1.12	1.10	1.10	1.09	1.09
80	6.54	6.55	6.57	6.57	0.03	0.48	28.32	32.01	27.75	1.13	1.09	1.09	1.09	1.09
90	6.55	6.57	6.59	6.59	0.04	0.54	27.76	31.16	27.15	1.14	1.09	1.09	1.08	1.09
100	6.57	6.58	6.60	6.60	0.03	0.63	27.22	30.39	26.59	1.15	1.09	1.08	1.08	1.08
125	6.61	6.62	6.65	6.64	0.04	0.76	26.08	28.79	25.38	1.17	1.08	1.07	1.06	1.07
150	6.64	6.65	6.69	6.68	0.05	0.91	25.14	27.53	24.38	1.20	1.06	1.06	1.05	1.05
175	6.68	6.68	6.72	6.72	0.05	1.10	24.37	26.51	23.57	1.22	1.05	1.05	1.03	1.04
200	6.71	6.72	6.77	6.76	0.06	1.27	23.77	25.69	22.93	1.25	1.03	1.03	1.01	1.02
225	6.75	6.75	6.82	6.80	0.07	1.46	23.31	25.03	22.43	1.27	1.02	1.01	1.01	1.01
250	6.78	6.78	6.86	6.84	0.08	1.69	22.99	24.50	22.06	1.29	1.01	1.00	1.03	1.02
275	6.82	6.81	6.90	6.87	0.09	1.92	22.79	24.11	21.82	1.31	1.02	1.02	1.05	1.04
300	6.85	6.85	6.94	6.91	0.09	2.21	22.73	23.83	21.69	1.33	1.03	1.04	1.08	1.06
325	6.88	6.89	6.98	6.94	0.10	2.52	22.81	23.66	21.70	1.34	1.05	1.06	1.10	1.09
350	6.92	6.91	7.01	6.97	0.10	2.83	23.03	23.63	21.82	1.35	1.07	1.08	1.13	1.12
375	6.96	6.94	7.05	6.99	0.11	3.20	23.41	23.74	22.07	1.36	1.09	1.10	1.16	1.14
400	6.99	6.98	7.08	7.01	0.10	3.63	23.99	23.99	22.45	1.36	1.12	1.12	1.19	1.18
425	7.04	7.02	7.11	7.03	0.09	4.15	24.80	24.45	22.94	1.36	1.14	1.14	1.23	1.21
450	7.08	7.07	7.13	7.05	0.08	4.64	25.94	25.15	23.51	1.36	1.16	1.16	1.26	1.24
475	7.14	7.12	7.15	7.05	0.09	5.31	27.48	26.20	24.10	1.36	1.18	1.18	1.29	1.27
500	7.21	7.19	7.16	7.07	0.14	6.07	29.69	27.78	24.51	1.36	1.19	1.20	1.32	1.31
525	7.30	7.28	7.18	7.07	0.23	6.86	33.01	30.29	24.47	1.36	1.21	1.21	1.35	1.34
550	7.42	7.41	7.19	7.07	0.36	7.92	38.56	34.86	23.80	1.37	1.22	1.22	1.37	1.36
575	7.58	7.57	7.21	7.08	0.51	9.07	42.71	42.65	22.57	1.40	1.22	1.22	1.39	1.39

¹ Total Loss = Insertion Loss+ 6dB Splitter Loss

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4 Way-0° Power Splitter/Combiner

SCP-4-1

Typical Performance Data

TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = -40°C

FREQ. (MHz)	TOTAL LOSS ¹ (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
1	7.03	7.03	7.03	7.06	0.03	0.49	23.39	48.15	24.33	1.41	1.61	1.61	1.59	1.59
2	6.85	6.85	6.85	6.87	0.02	0.33	25.21	48.22	26.09	1.29	1.44	1.45	1.43	1.43
3	6.68	6.68	6.68	6.69	0.01	0.18	26.91	48.30	27.74	1.22	1.34	1.34	1.32	1.33
4	6.61	6.61	6.61	6.62	0.01	0.15	27.86	48.48	28.66	1.19	1.29	1.29	1.28	1.28
5	6.54	6.55	6.55	6.55	0.01	0.11	28.76	48.57	29.54	1.17	1.25	1.25	1.25	1.25
6	6.50	6.51	6.51	6.52	0.02	0.09	29.52	48.39	30.29	1.15	1.23	1.23	1.22	1.22
7	6.47	6.48	6.48	6.49	0.02	0.07	30.24	48.10	31.00	1.14	1.21	1.21	1.20	1.20
8	6.45	6.46	6.46	6.47	0.01	0.08	30.87	47.61	31.62	1.13	1.19	1.19	1.18	1.18
9	6.44	6.44	6.44	6.45	0.01	0.09	31.44	47.09	32.17	1.12	1.17	1.17	1.17	1.17
10	6.42	6.42	6.43	6.43	0.01	0.11	31.93	46.52	32.64	1.12	1.16	1.16	1.16	1.16
20	6.38	6.38	6.39	6.40	0.02	0.16	34.09	42.20	34.40	1.09	1.11	1.11	1.10	1.11
30	6.38	6.38	6.39	6.40	0.02	0.27	33.95	39.48	33.89	1.09	1.09	1.09	1.09	1.09
40	6.38	6.40	6.40	6.41	0.02	0.36	33.32	37.46	32.99	1.09	1.08	1.08	1.08	1.08
50	6.40	6.41	6.41	6.42	0.02	0.41	32.51	35.85	32.04	1.10	1.08	1.07	1.07	1.07
60	6.41	6.42	6.43	6.43	0.02	0.47	31.69	34.56	31.12	1.11	1.07	1.07	1.06	1.07
70	6.43	6.42	6.44	6.44	0.02	0.56	30.91	33.43	30.28	1.12	1.07	1.07	1.06	1.06
80	6.44	6.44	6.45	6.46	0.02	0.62	30.19	32.47	29.50	1.13	1.06	1.06	1.06	1.06
90	6.45	6.45	6.47	6.47	0.02	0.68	29.53	31.61	28.80	1.14	1.06	1.06	1.06	1.05
100	6.46	6.46	6.48	6.48	0.02	0.79	28.91	30.85	28.17	1.15	1.05	1.06	1.05	1.05
125	6.49	6.49	6.52	6.51	0.03	0.99	27.62	29.24	26.80	1.18	1.04	1.04	1.04	1.04
150	6.52	6.52	6.56	6.55	0.04	1.19	26.58	27.97	25.71	1.21	1.03	1.03	1.02	1.03
175	6.55	6.55	6.59	6.58	0.04	1.40	25.76	26.94	24.85	1.24	1.02	1.02	1.02	1.02
200	6.59	6.58	6.63	6.62	0.05	1.61	25.11	26.09	24.16	1.27	1.01	1.02	1.02	1.02
225	6.63	6.61	6.68	6.66	0.07	1.82	24.63	25.42	23.63	1.29	1.01	1.01	1.03	1.03
250	6.66	6.63	6.72	6.69	0.08	2.09	24.28	24.87	23.25	1.32	1.02	1.02	1.05	1.05
275	6.69	6.67	6.76	6.72	0.09	2.35	24.10	24.46	23.01	1.34	1.03	1.04	1.08	1.06
300	6.72	6.70	6.79	6.76	0.09	2.66	24.05	24.16	22.88	1.35	1.05	1.05	1.10	1.08
325	6.75	6.73	6.83	6.78	0.10	3.00	24.15	23.98	22.90	1.37	1.06	1.07	1.12	1.10
350	6.78	6.75	6.86	6.80	0.11	3.31	24.42	23.94	23.03	1.38	1.08	1.09	1.15	1.13
375	6.81	6.78	6.89	6.82	0.11	3.67	24.87	24.03	23.30	1.38	1.10	1.11	1.17	1.15
400	6.85	6.81	6.91	6.85	0.10	4.11	25.56	24.28	23.68	1.39	1.12	1.13	1.20	1.18
425	6.88	6.85	6.93	6.86	0.08	4.53	26.52	24.73	24.14	1.39	1.14	1.14	1.23	1.21
450	6.93	6.89	6.95	6.87	0.08	5.01	27.87	25.43	24.60	1.38	1.16	1.16	1.26	1.24
475	6.98	6.94	6.96	6.87	0.11	5.63	29.76	26.50	24.95	1.38	1.18	1.18	1.29	1.27
500	7.04	7.01	6.98	6.87	0.18	6.30	32.50	28.12	24.92	1.38	1.19	1.20	1.32	1.30
525	7.13	7.09	6.98	6.86	0.27	7.03	36.49	30.69	24.34	1.38	1.20	1.21	1.35	1.33
550	7.24	7.21	6.99	6.86	0.38	7.93	39.81	35.28	23.21	1.39	1.21	1.21	1.37	1.36
575	7.40	7.37	6.99	6.85	0.54	8.92	36.12	40.54	21.74	1.41	1.21	1.22	1.38	1.38

¹ Total Loss = Insertion Loss+ 6dB Splitter Loss

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4 Way-0° Power Splitter/Combiner

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Typical Performance Data

TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = +85°C

FREQ. (MHz)	TOTAL LOSS ¹ (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
1	6.69	6.70	6.70	6.73	0.04	0.31	28.14	53.07	27.87	1.18	1.29	1.29	1.29	1.29
2	6.65	6.66	6.66	6.68	0.03	0.20	29.01	52.63	28.83	1.15	1.24	1.24	1.24	1.24
3	6.61	6.62	6.62	6.64	0.03	0.11	29.79	52.14	29.69	1.13	1.21	1.21	1.21	1.21
4	6.61	6.62	6.62	6.63	0.03	0.08	29.93	51.26	29.86	1.12	1.20	1.20	1.20	1.20
5	6.60	6.62	6.61	6.63	0.03	0.06	30.04	50.38	29.98	1.12	1.19	1.19	1.19	1.20
6	6.60	6.62	6.62	6.63	0.03	0.06	30.08	49.50	29.99	1.12	1.19	1.19	1.19	1.19
7	6.60	6.61	6.62	6.63	0.03	0.07	30.09	48.66	29.99	1.12	1.19	1.19	1.19	1.19
8	6.60	6.61	6.61	6.63	0.03	0.10	30.08	47.90	29.98	1.12	1.19	1.19	1.19	1.19
9	6.61	6.62	6.62	6.63	0.03	0.12	30.06	47.18	29.95	1.11	1.19	1.19	1.19	1.19
10	6.61	6.62	6.62	6.64	0.03	0.13	30.02	46.50	29.92	1.11	1.19	1.19	1.18	1.19
20	6.62	6.64	6.65	6.67	0.04	0.18	29.56	41.68	29.39	1.11	1.18	1.18	1.18	1.18
30	6.65	6.67	6.68	6.69	0.05	0.27	29.00	38.67	28.75	1.11	1.18	1.18	1.18	1.18
40	6.67	6.69	6.70	6.71	0.05	0.35	28.42	36.47	28.10	1.12	1.17	1.18	1.18	1.17
50	6.68	6.71	6.72	6.73	0.05	0.37	27.83	34.80	27.46	1.12	1.17	1.18	1.18	1.17
60	6.70	6.72	6.74	6.75	0.05	0.42	27.25	33.41	26.83	1.13	1.17	1.17	1.17	1.17
70	6.72	6.73	6.75	6.76	0.05	0.53	26.69	32.25	26.24	1.13	1.16	1.17	1.16	1.16
80	6.73	6.75	6.77	6.78	0.05	0.56	26.16	31.25	25.66	1.14	1.16	1.16	1.16	1.16
90	6.74	6.76	6.79	6.80	0.05	0.62	25.65	30.38	25.14	1.15	1.15	1.15	1.15	1.15
100	6.76	6.78	6.80	6.81	0.05	0.70	25.17	29.61	24.64	1.16	1.15	1.14	1.14	1.14
125	6.80	6.81	6.85	6.86	0.06	0.86	24.13	28.02	23.53	1.18	1.13	1.13	1.12	1.13
150	6.83	6.85	6.89	6.89	0.06	1.04	23.26	26.78	22.61	1.20	1.12	1.11	1.10	1.11
175	6.87	6.88	6.93	6.93	0.06	1.24	22.54	25.78	21.85	1.21	1.10	1.10	1.08	1.09
200	6.91	6.92	6.98	6.97	0.07	1.43	21.97	24.99	21.24	1.23	1.08	1.08	1.06	1.07
225	6.95	6.95	7.03	7.01	0.08	1.65	21.53	24.36	20.76	1.25	1.06	1.05	1.03	1.04
250	6.98	6.98	7.07	7.05	0.09	1.92	21.19	23.84	20.39	1.27	1.04	1.04	1.01	1.02
275	7.02	7.03	7.11	7.10	0.09	2.15	20.99	23.48	20.14	1.28	1.03	1.02	1.02	1.01
300	7.06	7.06	7.16	7.13	0.10	2.46	20.90	23.22	20.00	1.29	1.03	1.03	1.05	1.04
325	7.10	7.10	7.20	7.17	0.11	2.74	20.93	23.08	19.98	1.31	1.04	1.05	1.08	1.06
350	7.13	7.13	7.24	7.19	0.11	3.07	21.09	23.06	20.06	1.31	1.06	1.07	1.11	1.09
375	7.17	7.17	7.28	7.23	0.11	3.44	21.38	23.18	20.28	1.32	1.08	1.09	1.14	1.13
400	7.22	7.21	7.31	7.25	0.10	3.84	21.83	23.44	20.61	1.33	1.11	1.11	1.18	1.16
425	7.27	7.25	7.35	7.28	0.10	4.35	22.47	23.89	21.07	1.33	1.13	1.13	1.21	1.20
450	7.31	7.30	7.37	7.30	0.07	4.85	23.36	24.59	21.67	1.33	1.16	1.16	1.25	1.23
475	7.38	7.36	7.40	7.31	0.09	5.54	24.57	25.62	22.39	1.33	1.18	1.18	1.29	1.27
500	7.46	7.44	7.43	7.33	0.13	6.24	26.20	27.16	23.16	1.34	1.20	1.20	1.32	1.31
525	7.55	7.54	7.45	7.34	0.22	7.09	28.54	29.58	23.80	1.34	1.21	1.22	1.35	1.34
550	7.68	7.67	7.48	7.35	0.33	8.13	32.15	34.04	24.03	1.36	1.22	1.23	1.38	1.37
575	7.86	7.85	7.51	7.38	0.49	9.30	39.15	47.24	23.54	1.39	1.23	1.23	1.39	1.40

¹ Total Loss = Insertion Loss+ 6dB Splitter Loss

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