

4 Way-0° Power Splitter/Combiner

SCP-4-1W

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
10	6.37	6.38	6.38	6.39	0.01	0.07	36.75	41.41	36.19	1.08	1.14	1.14	1.14	1.14
20	6.39	6.39	6.40	6.39	0.01	0.05	36.65	42.11	35.86	1.07	1.13	1.13	1.13	1.13
30	6.40	6.40	6.41	6.41	0.01	0.03	35.93	41.57	35.27	1.07	1.13	1.13	1.13	1.13
40	6.41	6.41	6.42	6.41	0.01	0.02	35.17	40.78	34.71	1.07	1.13	1.13	1.13	1.13
50	6.42	6.42	6.43	6.43	0.01	0.01	34.46	40.02	34.15	1.07	1.13	1.12	1.13	1.13
60	6.43	6.43	6.44	6.44	0.01	0.04	33.75	39.39	33.57	1.07	1.12	1.12	1.13	1.13
70	6.44	6.45	6.45	6.45	0.01	0.06	33.10	38.83	32.99	1.07	1.12	1.12	1.13	1.13
80	6.45	6.45	6.46	6.46	0.02	0.05	32.48	38.36	32.42	1.07	1.12	1.12	1.12	1.13
90	6.46	6.46	6.47	6.46	0.01	0.05	31.86	37.90	31.88	1.07	1.12	1.12	1.12	1.12
100	6.47	6.47	6.48	6.47	0.01	0.05	31.30	37.48	31.34	1.07	1.12	1.12	1.12	1.12
125	6.49	6.49	6.50	6.49	0.01	0.09	30.00	36.57	30.11	1.07	1.12	1.12	1.12	1.12
150	6.50	6.51	6.51	6.51	0.01	0.10	28.89	35.79	29.01	1.07	1.11	1.12	1.12	1.12
175	6.51	6.52	6.54	6.52	0.02	0.10	27.92	35.09	28.05	1.07	1.11	1.11	1.11	1.11
200	6.54	6.55	6.55	6.54	0.01	0.12	27.07	34.47	27.22	1.08	1.11	1.11	1.11	1.11
225	6.55	6.57	6.57	6.55	0.02	0.15	26.32	33.93	26.49	1.08	1.10	1.11	1.10	1.10
250	6.56	6.58	6.58	6.56	0.02	0.16	25.67	33.42	25.83	1.08	1.10	1.10	1.10	1.10
275	6.58	6.61	6.61	6.58	0.03	0.17	25.09	32.99	25.26	1.08	1.09	1.10	1.10	1.09
300	6.60	6.63	6.63	6.60	0.03	0.15	24.58	32.59	24.75	1.09	1.09	1.09	1.09	1.09
325	6.62	6.66	6.65	6.61	0.04	0.15	24.13	32.24	24.30	1.09	1.08	1.09	1.09	1.08
350	6.64	6.67	6.66	6.62	0.04	0.15	23.73	31.95	23.91	1.09	1.07	1.09	1.08	1.08
375	6.64	6.69	6.69	6.64	0.05	0.17	23.39	31.69	23.57	1.09	1.07	1.08	1.07	1.07
400	6.67	6.71	6.71	6.65	0.06	0.13	23.10	31.47	23.27	1.10	1.06	1.08	1.07	1.06
425	6.68	6.73	6.73	6.66	0.06	0.13	22.85	31.31	23.02	1.10	1.05	1.07	1.06	1.06
450	6.70	6.75	6.74	6.67	0.08	0.09	22.64	31.19	22.82	1.10	1.05	1.07	1.06	1.05
475	6.71	6.77	6.77	6.69	0.08	0.09	22.49	31.13	22.67	1.10	1.04	1.06	1.05	1.05
500	6.73	6.79	6.79	6.70	0.09	0.09	22.38	31.11	22.56	1.10	1.04	1.06	1.05	1.04
525	6.74	6.81	6.81	6.71	0.10	0.13	22.31	31.15	22.49	1.10	1.03	1.05	1.04	1.04
550	6.75	6.83	6.83	6.72	0.11	0.16	22.27	31.28	22.47	1.11	1.03	1.05	1.04	1.03
575	6.76	6.85	6.85	6.73	0.12	0.21	22.28	31.49	22.48	1.11	1.03	1.04	1.04	1.03
600	6.78	6.87	6.87	6.74	0.13	0.25	22.31	31.78	22.52	1.12	1.03	1.04	1.04	1.03
625	6.79	6.89	6.90	6.76	0.14	0.32	22.38	32.19	22.59	1.12	1.03	1.05	1.04	1.04
650	6.81	6.92	6.92	6.78	0.15	0.42	22.46	32.71	22.67	1.13	1.04	1.05	1.05	1.04
675	6.82	6.95	6.96	6.80	0.16	0.54	22.52	33.43	22.72	1.15	1.05	1.06	1.06	1.05
700	6.85	6.97	6.99	6.82	0.17	0.67	22.55	34.28	22.74	1.17	1.06	1.06	1.07	1.06
725	6.87	7.01	7.02	6.84	0.18	0.80	22.49	35.35	22.69	1.19	1.07	1.08	1.08	1.07
750	6.90	7.05	7.07	6.87	0.20	0.97	22.35	36.37	22.49	1.22	1.08	1.09	1.09	1.08
775	6.94	7.10	7.13	6.92	0.21	1.10	21.99	37.01	22.14	1.26	1.09	1.10	1.10	1.10
800	6.99	7.16	7.19	6.97	0.22	1.38	21.48	36.80	21.60	1.30	1.10	1.12	1.11	1.11
850	7.13	7.32	7.37	7.13	0.24	1.90	19.92	33.45	20.05	1.41	1.13	1.16	1.14	1.14
900	7.34	7.56	7.63	7.36	0.29	2.73	17.95	29.24	18.13	1.56	1.16	1.20	1.18	1.17
950	7.67	7.92	8.00	7.71	0.33	3.74	15.89	25.68	16.18	1.75	1.20	1.26	1.22	1.20
1000	8.14	8.43	8.50	8.20	0.35	5.50	13.96	22.79	14.43	1.98	1.24	1.32	1.25	1.24
1050	8.83	9.16	9.10	8.82	0.34	8.25	12.13	20.55	12.91	2.24	1.29	1.40	1.29	1.27

¹ Total Loss = Insertion Loss+ 6dB Splitter Loss

REV. X2
SCP-4-1W
100627
Page 1 of 3

4 Way-0° Power Splitter/Combiner

SCP-4-1W

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
10	6.38	6.38	6.38	6.39	0.02	0.09	33.14	40.31	33.32	1.11	1.20	1.19	1.19	1.20
20	6.33	6.33	6.34	6.34	0.01	0.10	37.83	42.28	38.17	1.08	1.13	1.12	1.12	1.13
30	6.33	6.33	6.34	6.34	0.01	0.07	38.63	42.35	38.95	1.07	1.11	1.10	1.10	1.11
40	6.33	6.33	6.34	6.34	0.01	0.11	37.94	41.78	38.34	1.07	1.10	1.10	1.09	1.10
50	6.34	6.34	6.34	6.34	0.01	0.09	36.96	41.14	37.39	1.06	1.10	1.09	1.09	1.10
60	6.35	6.34	6.35	6.35	0.01	0.14	35.98	40.60	36.37	1.06	1.09	1.09	1.09	1.09
70	6.35	6.35	6.36	6.35	0.00	0.13	35.06	40.09	35.44	1.06	1.09	1.09	1.09	1.09
80	6.36	6.36	6.36	6.36	0.00	0.18	34.17	39.60	34.53	1.06	1.09	1.09	1.09	1.09
90	6.37	6.37	6.37	6.36	0.01	0.19	33.39	39.15	33.72	1.06	1.09	1.09	1.09	1.08
100	6.37	6.37	6.37	6.37	0.00	0.23	32.67	38.73	32.99	1.06	1.08	1.09	1.09	1.08
125	6.39	6.39	6.39	6.38	0.01	0.26	31.10	37.75	31.38	1.07	1.08	1.09	1.09	1.08
150	6.40	6.40	6.40	6.39	0.01	0.34	29.80	36.89	30.05	1.07	1.08	1.08	1.08	1.07
175	6.41	6.41	6.42	6.40	0.01	0.40	28.70	36.14	28.93	1.08	1.07	1.07	1.07	1.07
200	6.43	6.43	6.43	6.42	0.02	0.44	27.76	35.47	27.97	1.09	1.07	1.08	1.07	1.07
225	6.45	6.46	6.45	6.44	0.02	0.51	26.94	34.84	27.15	1.10	1.07	1.08	1.07	1.07
250	6.46	6.47	6.46	6.44	0.03	0.61	26.21	34.29	26.42	1.10	1.07	1.08	1.07	1.07
275	6.48	6.49	6.48	6.45	0.03	0.64	25.58	33.77	25.78	1.11	1.06	1.07	1.07	1.06
300	6.49	6.50	6.50	6.47	0.04	0.67	25.03	33.32	25.21	1.11	1.06	1.07	1.06	1.06
325	6.51	6.53	6.52	6.48	0.05	0.74	24.54	32.90	24.72	1.11	1.06	1.07	1.06	1.06
350	6.52	6.54	6.53	6.48	0.06	0.81	24.10	32.55	24.29	1.12	1.05	1.06	1.06	1.05
375	6.53	6.55	6.55	6.50	0.06	0.89	23.74	32.24	23.92	1.12	1.05	1.06	1.05	1.05
400	6.55	6.57	6.56	6.50	0.06	0.94	23.41	31.97	23.59	1.12	1.04	1.06	1.05	1.04
425	6.56	6.59	6.57	6.51	0.07	0.98	23.14	31.75	23.32	1.12	1.04	1.06	1.04	1.04
450	6.57	6.61	6.59	6.52	0.09	1.05	22.91	31.59	23.09	1.12	1.03	1.05	1.04	1.03
475	6.58	6.62	6.61	6.53	0.09	1.13	22.73	31.46	22.91	1.12	1.03	1.04	1.03	1.03
500	6.60	6.64	6.63	6.54	0.10	1.21	22.59	31.39	22.77	1.12	1.02	1.04	1.03	1.02
525	6.61	6.65	6.64	6.55	0.10	1.28	22.52	31.38	22.69	1.12	1.02	1.04	1.03	1.02
550	6.61	6.67	6.66	6.55	0.11	1.39	22.44	31.49	22.63	1.12	1.02	1.04	1.03	1.02
575	6.63	6.68	6.67	6.56	0.12	1.47	22.42	31.63	22.60	1.12	1.02	1.04	1.03	1.02
600	6.63	6.70	6.69	6.57	0.13	1.57	22.42	31.85	22.61	1.12	1.03	1.04	1.03	1.03
625	6.65	6.72	6.71	6.58	0.14	1.65	22.44	32.16	22.62	1.12	1.03	1.04	1.04	1.04
650	6.66	6.74	6.73	6.59	0.15	1.76	22.47	32.56	22.66	1.13	1.04	1.05	1.05	1.04
675	6.68	6.76	6.76	6.61	0.15	1.86	22.48	33.15	22.63	1.14	1.05	1.06	1.06	1.05
700	6.69	6.78	6.79	6.62	0.17	1.98	22.42	33.77	22.58	1.16	1.06	1.07	1.07	1.06
725	6.71	6.81	6.82	6.63	0.18	2.12	22.30	34.51	22.47	1.18	1.07	1.08	1.08	1.07
750	6.74	6.84	6.86	6.67	0.19	2.22	22.09	35.02	22.21	1.21	1.08	1.09	1.09	1.08
775	6.77	6.89	6.91	6.70	0.21	2.39	21.69	35.27	21.79	1.25	1.09	1.10	1.10	1.09
800	6.81	6.94	6.97	6.75	0.22	2.51	21.14	34.89	21.23	1.29	1.10	1.12	1.11	1.11
850	6.94	7.10	7.14	6.89	0.25	2.95	19.58	32.17	19.67	1.41	1.13	1.16	1.14	1.14
900	7.14	7.32	7.38	7.11	0.26	3.33	17.68	28.55	17.80	1.58	1.16	1.21	1.18	1.17
950	7.44	7.65	7.72	7.43	0.28	4.03	15.64	25.28	15.89	1.79	1.20	1.27	1.22	1.20
1000	7.90	8.14	8.19	7.90	0.29	5.73	13.73	22.51	14.16	2.06	1.24	1.33	1.26	1.24
1050	8.56	8.83	8.77	8.49	0.35	8.67	11.92	20.31	12.65	2.36	1.30	1.42	1.30	1.27

¹ Total Loss = Insertion Loss+ 6dB Splitter Loss

REV. X2
SCP-4-1W
100627
Page 2 of 3

4 Way-0° Power Splitter/Combiner

SCP-4-1W

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
10	6.51	6.51	6.51	6.53	0.02	0.08	35.03	40.52	34.29	1.10	1.19	1.19	1.19	1.19
20	6.52	6.52	6.53	6.54	0.02	0.04	35.89	40.10	34.92	1.10	1.17	1.18	1.18	1.18
30	6.52	6.53	6.54	6.55	0.03	0.06	35.27	39.47	34.43	1.09	1.17	1.18	1.18	1.18
40	6.54	6.55	6.55	6.56	0.02	0.09	34.47	38.80	33.87	1.09	1.17	1.18	1.18	1.18
50	6.55	6.56	6.56	6.58	0.03	0.08	33.76	38.19	33.31	1.09	1.17	1.18	1.18	1.18
60	6.56	6.57	6.58	6.59	0.03	0.06	33.05	37.70	32.71	1.09	1.17	1.18	1.18	1.18
70	6.57	6.58	6.59	6.60	0.03	0.07	32.38	37.22	32.16	1.09	1.17	1.18	1.18	1.18
80	6.58	6.59	6.60	6.60	0.03	0.06	31.72	36.82	31.60	1.09	1.17	1.17	1.18	1.18
90	6.59	6.60	6.61	6.61	0.03	0.07	31.14	36.41	31.05	1.09	1.17	1.17	1.17	1.17
100	6.60	6.61	6.61	6.62	0.03	0.05	30.56	36.04	30.54	1.09	1.17	1.17	1.17	1.17
125	6.62	6.63	6.64	6.64	0.02	0.05	29.30	35.26	29.36	1.09	1.17	1.16	1.16	1.17
150	6.64	6.65	6.66	6.66	0.03	0.07	28.22	34.55	28.32	1.08	1.16	1.16	1.16	1.16
175	6.65	6.67	6.68	6.68	0.03	0.05	27.28	33.94	27.42	1.08	1.15	1.16	1.16	1.16
200	6.67	6.69	6.70	6.69	0.03	0.06	26.47	33.39	26.63	1.08	1.15	1.15	1.15	1.15
225	6.69	6.72	6.72	6.71	0.03	0.08	25.75	32.90	25.92	1.07	1.14	1.14	1.14	1.14
250	6.70	6.74	6.74	6.73	0.03	0.09	25.11	32.47	25.28	1.07	1.13	1.14	1.14	1.14
275	6.73	6.77	6.76	6.75	0.04	0.09	24.55	32.09	24.72	1.07	1.12	1.13	1.13	1.13
300	6.75	6.78	6.78	6.77	0.04	0.06	24.04	31.75	24.22	1.07	1.12	1.13	1.12	1.12
325	6.77	6.81	6.81	6.79	0.05	0.04	23.60	31.44	23.78	1.06	1.11	1.12	1.12	1.11
350	6.78	6.83	6.83	6.80	0.05	0.08	23.20	31.19	23.39	1.06	1.10	1.11	1.11	1.10
375	6.80	6.86	6.85	6.82	0.06	0.07	22.87	30.98	23.06	1.06	1.09	1.11	1.10	1.10
400	6.82	6.88	6.88	6.84	0.05	0.08	22.59	30.81	22.78	1.06	1.08	1.10	1.09	1.09
425	6.84	6.91	6.90	6.86	0.06	0.10	22.37	30.70	22.55	1.06	1.08	1.09	1.09	1.08
450	6.86	6.93	6.92	6.87	0.06	0.17	22.19	30.62	22.37	1.07	1.07	1.09	1.08	1.07
475	6.88	6.96	6.96	6.89	0.08	0.19	22.06	30.60	22.25	1.07	1.06	1.08	1.07	1.06
500	6.90	6.98	6.98	6.90	0.09	0.22	21.98	30.64	22.17	1.07	1.05	1.07	1.06	1.06
525	6.91	7.00	7.00	6.92	0.09	0.26	21.97	30.75	22.16	1.08	1.04	1.06	1.06	1.05
550	6.93	7.03	7.02	6.94	0.10	0.29	21.96	30.99	22.17	1.08	1.04	1.06	1.05	1.04
575	6.95	7.05	7.05	6.95	0.10	0.43	22.02	31.28	22.24	1.09	1.03	1.05	1.04	1.04
600	6.97	7.08	7.08	6.96	0.11	0.47	22.13	31.70	22.34	1.10	1.03	1.05	1.04	1.03
625	6.98	7.10	7.11	6.99	0.13	0.51	22.28	32.25	22.48	1.12	1.03	1.05	1.04	1.04
650	7.00	7.13	7.14	7.01	0.14	0.61	22.46	33.00	22.67	1.13	1.03	1.05	1.04	1.04
675	7.02	7.16	7.18	7.03	0.16	0.74	22.63	34.01	22.81	1.15	1.04	1.05	1.05	1.05
700	7.04	7.19	7.21	7.05	0.17	0.85	22.76	35.30	22.93	1.18	1.05	1.06	1.06	1.06
725	7.07	7.23	7.25	7.08	0.18	0.97	22.83	37.12	22.99	1.20	1.06	1.07	1.07	1.07
750	7.12	7.29	7.31	7.12	0.19	1.22	22.79	39.24	22.90	1.24	1.07	1.08	1.08	1.08
775	7.15	7.33	7.36	7.17	0.21	1.36	22.52	41.47	22.61	1.28	1.09	1.10	1.09	1.09
800	7.20	7.40	7.43	7.23	0.23	1.60	22.04	41.24	22.13	1.32	1.10	1.12	1.11	1.11
850	7.36	7.59	7.64	7.41	0.28	2.15	20.44	34.84	20.56	1.43	1.13	1.15	1.14	1.13
900	7.60	7.84	7.92	7.67	0.32	2.92	18.37	29.52	18.58	1.57	1.16	1.20	1.17	1.17
950	7.95	8.22	8.31	8.05	0.36	4.06	16.21	25.75	16.56	1.74	1.19	1.25	1.21	1.20
1000	8.45	8.77	8.83	8.57	0.38	5.80	14.23	22.82	14.79	1.95	1.24	1.31	1.25	1.23
1050	9.17	9.52	9.45	9.21	0.35	8.45	12.40	20.61	13.28	2.17	1.29	1.39	1.28	1.27

¹ Total Loss = Insertion Loss+ 6dB Splitter Loss

REV. X2

SCP-4-1W

100627

Page 3 of 3



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED • RoHS compliant

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, instantly • For detailed performance specs & shopping online see

