

2 Way-90° Power Splitter/Combiner

SCPQ-400+

Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS ¹ (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. From 90° (deg.)	ISOLATION (dB) 1-2	VSWR (:1)		
	S-1	S-2				S	1	2
100	8.14	0.87	7.27	0.47	29.67	1.12	1.11	1.12
125	6.71	1.22	5.48	0.54	28.38	1.14	1.12	1.14
150	5.68	1.60	4.08	0.62	27.42	1.15	1.13	1.15
175	4.93	1.96	2.97	0.68	26.64	1.15	1.14	1.16
200	4.37	2.29	2.08	0.70	26.02	1.15	1.14	1.16
210	4.18	2.43	1.76	0.71	25.77	1.16	1.14	1.17
220	4.03	2.55	1.48	0.72	25.55	1.16	1.14	1.17
230	3.89	2.66	1.22	0.73	25.31	1.16	1.14	1.17
240	3.76	2.76	1.00	0.73	25.07	1.16	1.14	1.17
250	3.66	2.86	0.79	0.74	24.84	1.16	1.14	1.17
260	3.57	2.96	0.61	0.75	24.61	1.16	1.14	1.17
270	3.49	3.05	0.44	0.74	24.39	1.16	1.15	1.17
280	3.43	3.12	0.31	0.72	24.14	1.16	1.15	1.17
290	3.38	3.18	0.19	0.74	23.91	1.17	1.15	1.18
300	3.33	3.24	0.09	0.69	23.67	1.17	1.15	1.18
320	3.29	3.33	0.04	0.72	23.15	1.18	1.16	1.18
340	3.30	3.37	0.07	0.69	22.62	1.19	1.18	1.19
360	3.36	3.37	0.01	0.66	22.09	1.20	1.19	1.19
380	3.47	3.33	0.14	0.61	21.52	1.22	1.21	1.20
400	3.66	3.24	0.42	0.50	20.93	1.25	1.24	1.22
420	3.94	3.11	0.83	0.36	20.32	1.28	1.28	1.23
440	4.34	2.94	1.40	0.21	19.69	1.32	1.32	1.26
450	4.59	2.83	1.76	0.09	19.40	1.34	1.34	1.27
475	5.46	2.54	2.92	0.30	18.70	1.40	1.42	1.31
500	6.82	2.22	4.60	0.89	18.13	1.46	1.50	1.35

¹ Total Loss = Insertion Loss+ 3dB Splitter Loss

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2 Way-90° Power Splitter/Combiner

SCPQ-400+

Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS ¹ (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. From 90° (deg.)	ISOLATION (dB) 1-2	VSWR (:1)		
	S-1	S-2				S	1	2
100	8.13	0.82	7.31	0.22	29.70	1.13	1.11	1.13
125	6.69	1.17	5.51	0.22	28.40	1.14	1.12	1.14
150	5.65	1.54	4.11	0.24	27.26	1.15	1.13	1.15
175	4.90	1.90	3.00	0.24	26.41	1.16	1.14	1.17
200	4.34	2.23	2.11	0.20	25.91	1.16	1.14	1.17
210	4.15	2.36	1.80	0.19	25.71	1.16	1.14	1.17
220	4.00	2.48	1.52	0.17	25.52	1.15	1.14	1.17
230	3.86	2.59	1.27	0.17	25.30	1.15	1.14	1.17
240	3.72	2.69	1.03	0.15	25.06	1.15	1.14	1.17
250	3.62	2.79	0.83	0.12	24.80	1.16	1.14	1.17
260	3.53	2.88	0.65	0.11	24.53	1.16	1.14	1.17
270	3.45	2.97	0.48	0.08	24.28	1.16	1.15	1.18
280	3.38	3.04	0.34	0.04	24.02	1.16	1.15	1.18
290	3.33	3.10	0.22	0.02	23.78	1.17	1.15	1.18
300	3.28	3.16	0.12	0.06	23.55	1.17	1.15	1.18
320	3.24	3.24	0.00	0.09	23.09	1.18	1.16	1.19
340	3.24	3.28	0.04	0.15	22.58	1.19	1.17	1.19
360	3.30	3.28	0.02	0.22	22.04	1.20	1.19	1.20
380	3.41	3.24	0.17	0.30	21.47	1.22	1.21	1.21
400	3.59	3.14	0.45	0.45	20.87	1.25	1.24	1.22
420	3.87	3.01	0.86	0.64	20.26	1.28	1.27	1.23
440	4.25	2.83	1.42	0.78	19.65	1.31	1.32	1.25
450	4.49	2.72	1.77	0.92	19.35	1.33	1.34	1.27
475	5.35	2.42	2.93	1.28	18.63	1.40	1.41	1.30
500	6.69	2.09	4.60	1.81	18.05	1.46	1.50	1.34

¹ Total Loss = Insertion Loss+ 3dB Splitter Loss

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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. From 90° (deg.)	ISOLATION (dB) 1-2	VSWR (:1)		
	S-1	S-2				S	1	2
100	8.13	0.87	7.26	0.54	29.73	1.11	1.11	1.11
125	6.71	1.23	5.47	0.65	28.43	1.14	1.12	1.14
150	5.69	1.61	4.08	0.72	27.59	1.14	1.13	1.15
175	4.94	1.97	2.97	0.76	26.86	1.14	1.14	1.15
200	4.38	2.31	2.07	0.79	26.15	1.15	1.14	1.15
210	4.20	2.45	1.76	0.83	25.88	1.15	1.14	1.16
220	4.05	2.57	1.48	0.84	25.60	1.15	1.14	1.16
230	3.91	2.68	1.22	0.86	25.33	1.16	1.14	1.16
240	3.79	2.79	0.99	0.86	25.08	1.16	1.14	1.17
250	3.68	2.89	0.78	0.87	24.86	1.16	1.14	1.17
260	3.59	2.99	0.60	0.91	24.64	1.16	1.14	1.17
270	3.52	3.07	0.45	0.91	24.43	1.16	1.14	1.17
280	3.45	3.15	0.30	0.88	24.20	1.16	1.15	1.17
290	3.40	3.21	0.19	0.90	23.96	1.17	1.15	1.17
300	3.36	3.27	0.09	0.85	23.69	1.17	1.15	1.17
320	3.33	3.37	0.04	0.90	23.20	1.18	1.16	1.18
340	3.34	3.41	0.07	0.88	22.64	1.19	1.18	1.19
360	3.40	3.41	0.01	0.84	22.08	1.21	1.19	1.20
380	3.52	3.37	0.15	0.80	21.54	1.23	1.22	1.21
400	3.72	3.28	0.44	0.67	20.95	1.25	1.24	1.22
420	4.01	3.15	0.86	0.51	20.34	1.28	1.28	1.24
440	4.41	2.97	1.44	0.32	19.73	1.32	1.32	1.26
450	4.67	2.87	1.80	0.19	19.43	1.34	1.35	1.27
475	5.56	2.59	2.97	0.28	18.72	1.40	1.42	1.31
500	6.95	2.27	4.67	0.96	18.17	1.47	1.50	1.36

¹ Total Loss = Insertion Loss+ 3dB Splitter Loss

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