

2 Way-90° Power Splitter/Combiner

JSPQW-100A

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
10	3.29	3.21	0.09	3.45	40.52	1.04	1.14	1.05
15	3.33	3.24	0.09	1.83	40.57	1.05	1.18	1.08
20	3.37	3.28	0.09	2.30	40.10	1.06	1.21	1.12
25	3.40	3.31	0.09	1.72	39.75	1.07	1.22	1.14
30	3.42	3.34	0.08	1.13	39.58	1.07	1.23	1.16
35	3.43	3.36	0.07	0.74	39.67	1.06	1.23	1.17
40	3.45	3.39	0.07	0.64	39.73	1.04	1.22	1.17
45	3.47	3.41	0.07	0.64	39.92	1.03	1.21	1.17
50	3.49	3.42	0.07	0.69	40.03	1.01	1.20	1.17
55	3.51	3.44	0.07	0.76	40.09	1.02	1.20	1.16
60	3.54	3.46	0.08	0.81	40.16	1.04	1.20	1.16
65	3.56	3.48	0.09	0.76	40.17	1.07	1.21	1.15
70	3.59	3.49	0.09	0.64	40.04	1.10	1.23	1.15
75	3.62	3.51	0.11	0.46	39.90	1.13	1.25	1.15
80	3.65	3.53	0.12	0.18	39.73	1.16	1.28	1.16
85	3.69	3.55	0.13	0.20	39.49	1.20	1.31	1.17
90	3.73	3.57	0.15	0.60	39.21	1.23	1.35	1.19
95	3.77	3.60	0.17	1.09	38.89	1.26	1.39	1.20
100	3.80	3.62	0.19	1.64	38.65	1.30	1.43	1.23
105	3.84	3.65	0.20	2.22	38.44	1.33	1.47	1.25
110	3.89	3.67	0.22	2.88	38.27	1.37	1.51	1.28
115	3.93	3.70	0.23	3.50	38.12	1.41	1.55	1.32
120	3.97	3.73	0.24	4.19	38.05	1.44	1.59	1.35
125	4.01	3.77	0.25	4.87	37.96	1.48	1.64	1.39
130	4.06	3.80	0.26	5.58	37.93	1.52	1.68	1.43
135	4.10	3.84	0.26	6.29	37.95	1.56	1.72	1.47
140	4.15	3.88	0.27	7.01	37.95	1.60	1.77	1.51
145	4.19	3.92	0.27	7.74	37.92	1.64	1.81	1.55
150	4.23	3.96	0.27	8.46	37.89	1.68	1.85	1.60
160	4.31	4.06	0.26	9.82	37.93	1.77	1.93	1.69
170	4.39	4.15	0.24	11.15	38.00	1.85	2.01	1.79
180	4.47	4.26	0.22	12.36	38.32	1.93	2.08	1.90
190	4.55	4.37	0.18	13.49	38.79	2.02	2.15	2.00
200	4.61	4.48	0.14	14.54	39.40	2.10	2.22	2.11

¹Total Loss = Insertion Loss + 3dB Splitter Loss



2 Way-90° Power Splitter/Combiner

JSPQW-100A

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
10	3.27	3.18	0.09	3.75	35.96	1.05	1.17	1.04
15	3.29	3.21	0.08	1.49	38.92	1.06	1.19	1.11
20	3.31	3.24	0.07	1.98	41.06	1.07	1.20	1.14
25	3.33	3.27	0.06	1.46	42.81	1.07	1.20	1.16
30	3.34	3.30	0.05	0.88	44.42	1.07	1.20	1.16
35	3.36	3.31	0.04	0.53	46.03	1.06	1.20	1.16
40	3.38	3.33	0.05	0.39	47.44	1.04	1.19	1.16
45	3.39	3.35	0.05	0.38	48.96	1.03	1.19	1.16
50	3.41	3.36	0.05	0.42	50.32	1.01	1.19	1.16
55	3.43	3.38	0.06	0.44	51.41	1.02	1.19	1.17
60	3.46	3.39	0.06	0.42	52.34	1.04	1.20	1.17
65	3.48	3.40	0.08	0.35	52.82	1.06	1.22	1.17
70	3.51	3.42	0.09	0.21	52.82	1.09	1.24	1.17
75	3.54	3.43	0.10	0.00	52.52	1.12	1.26	1.17
80	3.56	3.45	0.12	0.33	52.03	1.15	1.29	1.18
85	3.60	3.46	0.13	0.72	51.17	1.18	1.33	1.18
90	3.63	3.48	0.16	1.17	50.09	1.21	1.37	1.19
95	3.67	3.50	0.17	1.71	49.00	1.25	1.40	1.21
100	3.71	3.52	0.19	2.31	48.12	1.29	1.45	1.23
105	3.75	3.55	0.20	2.93	47.15	1.33	1.49	1.25
110	3.80	3.57	0.23	3.63	46.28	1.37	1.53	1.29
115	3.83	3.60	0.23	4.32	45.49	1.41	1.58	1.32
120	3.88	3.63	0.25	5.04	44.65	1.46	1.63	1.36
125	3.92	3.67	0.25	5.77	43.84	1.50	1.67	1.40
130	3.97	3.71	0.26	6.50	43.10	1.55	1.72	1.44
135	4.01	3.75	0.27	7.22	42.41	1.60	1.77	1.48
140	4.06	3.79	0.27	7.96	41.76	1.64	1.81	1.52
145	4.10	3.83	0.28	8.71	41.10	1.69	1.86	1.56
150	4.15	3.87	0.28	9.45	40.51	1.74	1.91	1.60
160	4.24	3.95	0.29	10.93	39.56	1.83	2.00	1.68
170	4.33	4.05	0.28	12.39	38.80	1.92	2.09	1.78
180	4.41	4.15	0.26	13.78	38.44	2.01	2.17	1.88
190	4.49	4.26	0.22	15.09	38.33	2.11	2.25	2.00
200	4.55	4.37	0.17	16.26	38.42	2.20	2.31	2.12

¹Total Loss = Insertion Loss + 3dB Splitter Loss

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2 Way-90° Power Splitter/Combiner

JSPQW-100A

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
10	3.34	3.25	0.09	3.18	36.28	1.04	1.15	1.03
15	3.40	3.28	0.12	2.07	36.03	1.05	1.21	1.06
20	3.44	3.31	0.12	2.45	35.62	1.06	1.24	1.10
25	3.47	3.35	0.11	1.81	35.35	1.07	1.26	1.15
30	3.49	3.39	0.10	1.16	35.20	1.07	1.26	1.18
35	3.50	3.42	0.08	0.79	35.19	1.06	1.26	1.20
40	3.52	3.45	0.07	0.68	35.19	1.05	1.25	1.20
45	3.54	3.47	0.06	0.74	35.22	1.03	1.24	1.20
50	3.55	3.49	0.06	0.80	35.19	1.01	1.22	1.19
55	3.57	3.51	0.06	0.92	35.15	1.02	1.21	1.18
60	3.60	3.53	0.07	1.00	35.09	1.05	1.21	1.16
65	3.62	3.55	0.07	0.98	34.99	1.08	1.21	1.15
70	3.65	3.57	0.08	0.91	34.83	1.12	1.23	1.14
75	3.69	3.59	0.10	0.73	34.67	1.15	1.25	1.14
80	3.73	3.61	0.11	0.47	34.52	1.19	1.28	1.15
85	3.76	3.64	0.13	0.13	34.34	1.22	1.31	1.17
90	3.81	3.66	0.15	0.25	34.14	1.26	1.35	1.19
95	3.85	3.69	0.17	0.72	33.94	1.29	1.39	1.22
100	3.89	3.71	0.18	1.25	33.80	1.33	1.43	1.24
105	3.94	3.74	0.20	1.77	33.69	1.36	1.47	1.27
110	3.98	3.77	0.22	2.40	33.61	1.39	1.52	1.30
115	4.02	3.80	0.23	3.03	33.54	1.42	1.56	1.33
120	4.07	3.82	0.24	3.69	33.55	1.45	1.60	1.36
125	4.11	3.86	0.25	4.36	33.52	1.48	1.64	1.40
130	4.16	3.89	0.26	5.07	33.56	1.52	1.69	1.43
135	4.20	3.92	0.27	5.78	33.66	1.55	1.73	1.47
140	4.24	3.96	0.28	6.50	33.79	1.59	1.77	1.51
145	4.28	4.01	0.27	7.24	33.90	1.62	1.81	1.56
150	4.32	4.05	0.27	7.98	34.03	1.66	1.85	1.61
160	4.40	4.14	0.26	9.32	34.42	1.74	1.93	1.71
170	4.48	4.25	0.23	10.61	34.87	1.81	2.00	1.83
180	4.55	4.36	0.20	11.74	35.51	1.89	2.07	1.94
190	4.62	4.47	0.15	12.74	36.36	1.97	2.14	2.05
200	4.69	4.58	0.11	13.69	37.36	2.05	2.21	2.15

¹Total Loss = Insertion Loss + 3dB Splitter Loss

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