

# 2 Way-90° Power Splitter/Combiner

# ADQ-90+

## Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS <sup>1</sup> (dB)			AMP. UNBAL. (dB)	PHASE UNBAL. From 90° (deg.)	ISOLATION (dB) 1-2	VSWR (:1)		
	S-1	S-2	AVG.				S	1	2
30	6.08	1.35	3.71	4.73	0.63	25.10	1.13	1.11	1.11
35	5.25	1.68	3.47	3.57	0.62	24.62	1.14	1.12	1.11
40	4.62	2.01	3.31	2.61	0.61	24.32	1.14	1.13	1.11
45	4.13	2.31	3.22	1.82	0.58	24.18	1.14	1.13	1.11
50	3.76	2.59	3.17	1.16	0.54	24.14	1.14	1.13	1.11
51	3.69	2.65	3.17	1.04	0.52	24.14	1.14	1.13	1.11
52	3.63	2.70	3.16	0.93	0.52	24.15	1.14	1.13	1.11
53	3.57	2.75	3.16	0.82	0.50	24.15	1.14	1.13	1.11
54	3.52	2.80	3.16	0.72	0.51	24.16	1.13	1.13	1.11
55	3.47	2.84	3.16	0.63	0.51	24.17	1.13	1.13	1.11
56	3.42	2.89	3.16	0.53	0.49	24.20	1.13	1.13	1.11
57	3.38	2.93	3.15	0.44	0.48	24.21	1.13	1.13	1.11
58	3.33	2.98	3.15	0.36	0.46	24.22	1.13	1.13	1.11
59	3.29	3.02	3.15	0.28	0.44	24.25	1.13	1.13	1.11
60	3.26	3.05	3.15	0.20	0.45	24.27	1.13	1.13	1.11
61	3.22	3.09	3.16	0.13	0.42	24.28	1.13	1.13	1.11
62	3.19	3.13	3.16	0.06	0.44	24.31	1.13	1.13	1.11
63	3.16	3.16	3.16	0.00	0.40	24.34	1.13	1.13	1.11
64	3.13	3.19	3.16	0.07	0.42	24.37	1.13	1.13	1.10
65	3.10	3.22	3.16	0.12	0.38	24.40	1.12	1.13	1.10
66	3.08	3.25	3.16	0.17	0.36	24.42	1.12	1.13	1.10
67	3.06	3.28	3.17	0.22	0.36	24.45	1.12	1.13	1.10
68	3.04	3.30	3.17	0.27	0.36	24.49	1.12	1.13	1.10
69	3.02	3.33	3.17	0.31	0.30	24.52	1.12	1.13	1.10
70	3.01	3.35	3.18	0.34	0.29	24.56	1.12	1.13	1.10
72	2.98	3.39	3.18	0.40	0.26	24.63	1.12	1.13	1.10
74	2.96	3.41	3.19	0.45	0.21	24.71	1.11	1.13	1.10
76	2.95	3.43	3.19	0.48	0.16	24.80	1.11	1.13	1.10
78	2.96	3.44	3.20	0.49	0.10	24.88	1.11	1.13	1.10
80	2.96	3.45	3.20	0.49	0.08	24.97	1.10	1.13	1.10
82	2.97	3.44	3.21	0.47	0.01	25.08	1.10	1.13	1.10
84	3.00	3.43	3.21	0.43	0.07	25.19	1.10	1.13	1.10
86	3.03	3.41	3.22	0.37	0.13	25.30	1.09	1.14	1.10
88	3.08	3.37	3.23	0.30	0.22	25.43	1.09	1.14	1.10
90	3.13	3.34	3.23	0.20	0.33	25.57	1.09	1.14	1.10
92	3.20	3.28	3.24	0.08	0.46	25.72	1.08	1.15	1.11
94	3.28	3.22	3.25	0.05	0.57	25.88	1.08	1.15	1.11
96	3.37	3.16	3.26	0.21	0.70	26.07	1.08	1.16	1.11
98	3.48	3.08	3.28	0.40	0.85	26.26	1.08	1.16	1.12
100	3.61	2.99	3.30	0.62	1.04	26.50	1.07	1.17	1.12
105	4.03	2.73	3.38	1.29	1.58	27.21	1.07	1.19	1.14
110	4.63	2.42	3.53	2.21	2.40	28.13	1.07	1.22	1.16
115	5.52	2.07	3.80	3.45	3.64	29.26	1.09	1.25	1.18
120	6.88	1.70	4.29	5.18	5.69	30.04	1.12	1.30	1.21

<sup>1</sup>Total Loss = Insertion Loss + 3dB Splitter Loss

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# 2 Way-90° Power Splitter/Combiner

# ADQ-90+

## Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS <sup>1</sup> (dB)			AMP. UNBAL. (dB)	PHASE UNBAL. From 90° (deg.)	ISOLATION (dB) 1-2	VSWR (:1)		
	S-1	S-2	AVG.				S	1	2
30	6.07	1.32	3.70	4.75	0.50	25.74	1.13	1.12	1.11
35	5.24	1.65	3.44	3.59	0.47	25.33	1.12	1.12	1.10
40	4.60	1.97	3.29	2.63	0.42	25.08	1.12	1.13	1.10
45	4.11	2.28	3.19	1.83	0.37	24.94	1.12	1.13	1.09
50	3.73	2.56	3.14	1.17	0.30	24.86	1.11	1.13	1.09
51	3.67	2.61	3.14	1.05	0.28	24.84	1.11	1.13	1.09
52	3.60	2.66	3.13	0.94	0.26	24.84	1.11	1.13	1.09
53	3.55	2.71	3.13	0.83	0.27	24.83	1.11	1.13	1.09
54	3.49	2.76	3.13	0.73	0.26	24.82	1.11	1.13	1.09
55	3.44	2.80	3.12	0.64	0.25	24.81	1.11	1.13	1.08
56	3.39	2.85	3.12	0.54	0.22	24.82	1.11	1.13	1.08
57	3.35	2.90	3.12	0.45	0.23	24.81	1.11	1.13	1.08
58	3.30	2.94	3.12	0.37	0.21	24.80	1.11	1.13	1.08
59	3.26	2.98	3.12	0.29	0.19	24.80	1.11	1.13	1.08
60	3.23	3.02	3.12	0.21	0.17	24.81	1.11	1.13	1.08
61	3.19	3.06	3.12	0.13	0.16	24.80	1.11	1.13	1.08
62	3.16	3.09	3.12	0.07	0.15	24.81	1.11	1.13	1.08
63	3.13	3.12	3.13	0.00	0.14	24.81	1.11	1.13	1.08
64	3.09	3.16	3.13	0.06	0.13	24.81	1.11	1.13	1.08
65	3.07	3.19	3.13	0.12	0.10	24.82	1.11	1.13	1.08
66	3.04	3.21	3.13	0.17	0.09	24.82	1.11	1.13	1.08
67	3.03	3.24	3.13	0.22	0.09	24.82	1.11	1.13	1.08
68	3.00	3.27	3.14	0.26	0.07	24.84	1.11	1.13	1.08
69	2.99	3.29	3.14	0.30	0.03	24.85	1.10	1.13	1.08
70	2.97	3.31	3.14	0.34	0.01	24.87	1.10	1.13	1.08
72	2.95	3.35	3.15	0.40	0.01	24.89	1.10	1.13	1.08
74	2.93	3.38	3.15	0.45	0.06	24.93	1.10	1.13	1.08
76	2.92	3.40	3.16	0.48	0.11	24.98	1.10	1.13	1.08
78	2.92	3.41	3.16	0.49	0.15	25.03	1.10	1.13	1.08
80	2.92	3.41	3.17	0.49	0.19	25.09	1.10	1.13	1.09
82	2.93	3.41	3.17	0.47	0.25	25.17	1.10	1.13	1.09
84	2.96	3.39	3.18	0.43	0.34	25.26	1.10	1.13	1.09
86	2.99	3.37	3.18	0.38	0.40	25.36	1.09	1.13	1.09
88	3.03	3.34	3.19	0.31	0.48	25.47	1.09	1.13	1.10
90	3.09	3.30	3.19	0.21	0.59	25.60	1.09	1.13	1.10
92	3.16	3.25	3.20	0.09	0.70	25.75	1.09	1.14	1.10
94	3.23	3.19	3.21	0.04	0.81	25.92	1.09	1.14	1.11
96	3.32	3.12	3.22	0.20	0.95	26.11	1.08	1.15	1.11
98	3.43	3.04	3.24	0.39	1.08	26.30	1.08	1.15	1.12
100	3.55	2.95	3.25	0.60	1.25	26.55	1.08	1.16	1.13
105	3.97	2.69	3.33	1.27	1.78	27.26	1.08	1.18	1.14
110	4.56	2.38	3.47	2.18	2.54	28.11	1.09	1.21	1.17
115	5.44	2.02	3.73	3.42	3.69	28.93	1.10	1.25	1.19
120	6.78	1.65	4.21	5.13	5.60	29.01	1.13	1.30	1.22

<sup>1</sup>Total Loss = Insertion Loss + 3dB Splitter Loss

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# 2 Way-90° Power Splitter/Combiner

# ADQ-90+

## Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS <sup>1</sup>			AMP. UNBAL. (dB)	PHASE UNBAL. From 90° (deg.)	ISOLATION (dB) 1-2	VSWR		
	(dB)						(:1)		
	S-1	S-2	AVG.				S	1	2
30	6.08	1.37	3.72	4.71	0.78	24.52	1.13	1.11	1.10
35	5.25	1.71	3.48	3.55	0.80	23.95	1.14	1.12	1.11
40	4.63	2.04	3.33	2.59	0.81	23.61	1.16	1.12	1.13
45	4.14	2.35	3.25	1.80	0.80	23.44	1.16	1.13	1.13
50	3.77	2.63	3.20	1.14	0.81	23.42	1.17	1.13	1.14
51	3.71	2.68	3.20	1.03	0.77	23.42	1.17	1.13	1.14
52	3.65	2.73	3.19	0.92	0.78	23.44	1.16	1.13	1.14
53	3.59	2.78	3.19	0.81	0.79	23.45	1.16	1.13	1.14
54	3.54	2.83	3.19	0.71	0.78	23.47	1.16	1.13	1.14
55	3.49	2.88	3.18	0.62	0.77	23.49	1.16	1.13	1.14
56	3.44	2.92	3.18	0.52	0.77	23.53	1.16	1.13	1.14
57	3.40	2.97	3.18	0.43	0.77	23.55	1.16	1.13	1.14
58	3.36	3.01	3.18	0.35	0.74	23.58	1.16	1.13	1.14
59	3.32	3.05	3.18	0.27	0.76	23.62	1.16	1.13	1.14
60	3.28	3.09	3.18	0.19	0.72	23.66	1.16	1.13	1.14
61	3.24	3.13	3.19	0.12	0.71	23.69	1.16	1.13	1.14
62	3.21	3.16	3.18	0.05	0.71	23.75	1.15	1.13	1.14
63	3.18	3.19	3.19	0.01	0.71	23.78	1.15	1.13	1.14
64	3.15	3.23	3.19	0.08	0.72	23.84	1.15	1.13	1.13
65	3.13	3.25	3.19	0.13	0.69	23.88	1.15	1.12	1.13
66	3.10	3.28	3.19	0.18	0.65	23.93	1.15	1.13	1.13
67	3.08	3.31	3.20	0.23	0.67	23.98	1.14	1.13	1.13
68	3.06	3.33	3.20	0.27	0.65	24.04	1.14	1.13	1.13
69	3.05	3.36	3.20	0.31	0.61	24.10	1.14	1.13	1.13
70	3.03	3.38	3.20	0.35	0.60	24.16	1.14	1.13	1.13
72	3.01	3.41	3.21	0.41	0.57	24.27	1.13	1.13	1.13
74	2.99	3.44	3.22	0.45	0.53	24.40	1.13	1.13	1.12
76	2.98	3.46	3.22	0.48	0.49	24.53	1.12	1.13	1.12
78	2.98	3.47	3.23	0.49	0.44	24.65	1.12	1.13	1.12
80	2.99	3.47	3.23	0.48	0.41	24.78	1.11	1.13	1.12
82	3.01	3.47	3.24	0.46	0.32	24.93	1.11	1.14	1.12
84	3.03	3.45	3.24	0.42	0.26	25.07	1.10	1.14	1.12
86	3.07	3.43	3.25	0.36	0.18	25.21	1.10	1.14	1.11
88	3.11	3.40	3.26	0.29	0.09	25.36	1.09	1.15	1.11
90	3.17	3.36	3.26	0.19	0.02	25.52	1.09	1.15	1.12
92	3.24	3.31	3.27	0.07	0.12	25.67	1.09	1.16	1.12
94	3.31	3.25	3.28	0.07	0.26	25.85	1.08	1.16	1.12
96	3.41	3.18	3.29	0.23	0.41	26.03	1.08	1.17	1.12
98	3.52	3.10	3.31	0.42	0.56	26.22	1.07	1.17	1.12
100	3.65	3.01	3.33	0.64	0.75	26.44	1.07	1.18	1.13
105	4.08	2.76	3.42	1.32	1.33	27.10	1.06	1.20	1.14
110	4.69	2.45	3.57	2.24	2.20	27.97	1.06	1.23	1.16
115	5.60	2.10	3.85	3.50	3.52	29.14	1.08	1.26	1.18
120	6.98	1.74	4.36	5.24	5.70	30.24	1.11	1.31	1.21

<sup>1</sup>Total Loss = Insertion Loss + 3dB Splitter Loss

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