

# 2 Way-90° Power Splitter/Combiner

# ADQ-180

## 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
60	6.36	1.29	3.82	5.07	0.41	40.55	1.02	1.03	1.03
65	5.89	1.45	3.67	4.45	0.39	39.98	1.02	1.03	1.03
70	5.49	1.61	3.55	3.88	0.38	39.50	1.02	1.03	1.03
75	5.13	1.77	3.45	3.36	0.34	39.15	1.02	1.02	1.03
80	4.81	1.93	3.37	2.88	0.32	38.79	1.02	1.02	1.03
85	4.53	2.08	3.31	2.45	0.30	38.48	1.02	1.02	1.03
90	4.29	2.23	3.26	2.05	0.28	38.26	1.02	1.02	1.03
95	4.07	2.38	3.22	1.69	0.23	38.08	1.02	1.02	1.03
100	3.87	2.52	3.20	1.35	0.22	37.88	1.02	1.02	1.02
105	3.70	2.66	3.18	1.04	0.19	37.65	1.02	1.02	1.02
110	3.55	2.79	3.17	0.76	0.15	37.46	1.02	1.02	1.02
115	3.42	2.91	3.16	0.51	0.14	37.34	1.02	1.02	1.02
120	3.30	3.02	3.16	0.28	0.11	37.20	1.02	1.02	1.02
125	3.20	3.12	3.16	0.08	0.07	37.10	1.02	1.02	1.02
130	3.11	3.22	3.16	0.11	0.04	37.10	1.02	1.02	1.02
135	3.03	3.31	3.17	0.27	0.00	37.15	1.02	1.02	1.02
140	2.97	3.39	3.18	0.42	0.04	37.21	1.02	1.02	1.02
145	2.92	3.45	3.18	0.53	0.09	37.24	1.02	1.02	1.02
150	2.87	3.51	3.19	0.64	0.13	37.15	1.02	1.02	1.01
155	2.84	3.56	3.20	0.71	0.16	37.04	1.02	1.03	1.01
160	2.82	3.59	3.21	0.77	0.18	36.84	1.02	1.03	1.01
165	2.81	3.62	3.21	0.81	0.26	36.64	1.02	1.03	1.01
170	2.81	3.63	3.22	0.82	0.28	36.31	1.02	1.03	1.01
175	2.82	3.64	3.23	0.82	0.32	35.92	1.03	1.04	1.02
180	2.84	3.63	3.23	0.79	0.37	35.44	1.03	1.04	1.02
185	2.87	3.61	3.24	0.73	0.45	34.76	1.03	1.05	1.02
190	2.92	3.57	3.24	0.65	0.52	33.96	1.04	1.05	1.02
195	2.98	3.52	3.25	0.54	0.59	33.04	1.04	1.06	1.03
200	3.05	3.45	3.25	0.40	0.68	32.00	1.05	1.07	1.03
205	3.15	3.38	3.26	0.23	0.75	30.85	1.06	1.08	1.04
210	3.26	3.29	3.27	0.03	0.91	29.67	1.07	1.09	1.05
215	3.40	3.19	3.29	0.21	1.04	28.45	1.08	1.11	1.06
220	3.57	3.07	3.32	0.50	1.19	27.19	1.10	1.12	1.07
225	3.77	2.94	3.35	0.83	1.38	25.92	1.11	1.14	1.09
230	4.01	2.80	3.40	1.21	1.62	24.62	1.13	1.17	1.11
235	4.30	2.64	3.47	1.65	1.94	23.32	1.16	1.19	1.13
240	4.65	2.48	3.56	2.17	2.34	22.00	1.19	1.22	1.16
245	5.08	2.31	3.69	2.77	2.91	20.69	1.22	1.26	1.19
250	5.62	2.14	3.88	3.48	3.67	19.39	1.26	1.31	1.23

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

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# 2 Way-90° Power Splitter/Combiner

# ADQ-180

## Typical Performance Data

TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = -40°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
60	6.43	1.22	3.82	5.21	0.01	36.96	1.05	1.04	1.07
65	5.96	1.38	3.67	4.58	0.07	36.45	1.06	1.04	1.07
70	5.54	1.54	3.54	4.01	0.10	36.04	1.06	1.04	1.07
75	5.18	1.69	3.44	3.49	0.13	35.76	1.06	1.04	1.07
80	4.86	1.85	3.35	3.01	0.15	35.53	1.06	1.04	1.07
85	4.57	2.00	3.29	2.57	0.22	35.40	1.06	1.04	1.06
90	4.32	2.15	3.23	2.18	0.26	35.34	1.06	1.04	1.06
95	4.10	2.29	3.19	1.81	0.31	35.40	1.05	1.04	1.05
100	3.90	2.43	3.16	1.47	0.34	35.49	1.05	1.04	1.05
105	3.72	2.56	3.14	1.16	0.40	35.63	1.04	1.04	1.04
110	3.56	2.69	3.13	0.87	0.45	35.88	1.04	1.04	1.04
115	3.43	2.81	3.12	0.62	0.48	36.25	1.03	1.04	1.03
120	3.30	2.92	3.11	0.39	0.54	36.68	1.03	1.04	1.03
125	3.20	3.02	3.11	0.18	0.59	37.16	1.02	1.04	1.03
130	3.11	3.12	3.11	0.01	0.66	37.75	1.02	1.04	1.03
135	3.03	3.20	3.12	0.17	0.70	38.45	1.02	1.04	1.03
140	2.96	3.28	3.12	0.32	0.77	39.21	1.02	1.04	1.03
145	2.90	3.35	3.12	0.44	0.84	40.03	1.02	1.04	1.03
150	2.86	3.41	3.13	0.55	0.87	40.71	1.03	1.04	1.03
155	2.83	3.45	3.14	0.62	0.90	41.46	1.03	1.04	1.03
160	2.80	3.49	3.15	0.69	0.96	42.01	1.03	1.04	1.03
165	2.78	3.52	3.15	0.73	1.04	42.56	1.04	1.05	1.03
170	2.78	3.53	3.15	0.75	1.09	42.74	1.04	1.05	1.03
175	2.79	3.54	3.16	0.75	1.13	42.63	1.04	1.05	1.03
180	2.81	3.53	3.17	0.72	1.20	42.12	1.04	1.05	1.03
185	2.84	3.51	3.17	0.67	1.27	40.91	1.05	1.05	1.03
190	2.88	3.47	3.18	0.59	1.36	39.32	1.05	1.05	1.03
195	2.93	3.43	3.18	0.49	1.43	37.55	1.05	1.06	1.02
200	3.00	3.36	3.18	0.36	1.52	35.65	1.05	1.06	1.03
205	3.08	3.28	3.18	0.20	1.60	33.76	1.05	1.07	1.03
210	3.19	3.20	3.19	0.00	1.76	31.93	1.06	1.08	1.04
215	3.33	3.09	3.21	0.23	1.85	30.18	1.07	1.09	1.06
220	3.49	2.98	3.23	0.51	2.01	28.48	1.08	1.10	1.08
225	3.68	2.85	3.26	0.83	2.20	26.87	1.10	1.12	1.10
230	3.91	2.71	3.31	1.20	2.42	25.28	1.12	1.14	1.12
235	4.18	2.55	3.37	1.63	2.72	23.74	1.15	1.17	1.14
240	4.52	2.39	3.46	2.14	3.09	22.24	1.18	1.20	1.17
245	4.94	2.22	3.58	2.72	3.60	20.78	1.21	1.24	1.21
250	5.45	2.05	3.75	3.40	4.29	19.36	1.26	1.29	1.24

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

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# 2 Way-90° Power Splitter/Combiner

# ADQ-180

## Typical Performance Data

TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = +85°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
60	6.41	1.28	3.85	5.13	0.66	39.93	1.01	1.03	1.02
65	5.94	1.44	3.69	4.50	0.64	39.90	1.02	1.03	1.02
70	5.54	1.60	3.57	3.93	0.65	39.95	1.02	1.03	1.02
75	5.18	1.77	3.47	3.41	0.67	40.19	1.02	1.03	1.02
80	4.86	1.92	3.39	2.94	0.68	40.37	1.02	1.03	1.02
85	4.58	2.08	3.33	2.50	0.69	40.55	1.01	1.03	1.02
90	4.33	2.23	3.28	2.11	0.66	40.75	1.01	1.03	1.02
95	4.11	2.37	3.24	1.74	0.67	40.88	1.01	1.03	1.02
100	3.92	2.51	3.21	1.40	0.67	40.93	1.01	1.03	1.02
105	3.74	2.65	3.20	1.09	0.66	40.83	1.02	1.03	1.02
110	3.59	2.78	3.19	0.82	0.65	40.73	1.02	1.02	1.02
115	3.46	2.90	3.18	0.56	0.68	40.61	1.02	1.02	1.02
120	3.34	3.01	3.18	0.33	0.66	40.46	1.03	1.02	1.02
125	3.24	3.12	3.18	0.13	0.66	40.20	1.03	1.02	1.03
130	3.15	3.21	3.18	0.06	0.66	39.95	1.03	1.02	1.02
135	3.07	3.30	3.19	0.22	0.64	39.74	1.03	1.02	1.02
140	3.01	3.38	3.19	0.36	0.62	39.49	1.03	1.02	1.02
145	2.96	3.44	3.20	0.48	0.59	39.18	1.03	1.02	1.02
150	2.92	3.50	3.21	0.58	0.58	38.75	1.03	1.02	1.01
155	2.89	3.55	3.22	0.66	0.59	38.36	1.03	1.03	1.01
160	2.87	3.59	3.23	0.72	0.58	37.91	1.03	1.03	1.01
165	2.85	3.61	3.23	0.76	0.54	37.45	1.03	1.03	1.02
170	2.85	3.62	3.24	0.77	0.51	36.90	1.03	1.04	1.02
175	2.87	3.62	3.24	0.76	0.52	36.29	1.03	1.04	1.03
180	2.89	3.62	3.25	0.72	0.46	35.56	1.03	1.05	1.03
185	2.93	3.60	3.26	0.67	0.41	34.66	1.04	1.06	1.04
190	2.97	3.56	3.27	0.59	0.35	33.65	1.04	1.07	1.05
195	3.04	3.51	3.27	0.48	0.29	32.57	1.05	1.07	1.05
200	3.11	3.45	3.28	0.34	0.22	31.40	1.06	1.09	1.06
205	3.21	3.37	3.29	0.17	0.14	30.20	1.07	1.10	1.06
210	3.33	3.29	3.31	0.04	0.00	29.00	1.08	1.11	1.07
215	3.47	3.19	3.33	0.28	0.08	27.79	1.10	1.13	1.08
220	3.64	3.07	3.36	0.57	0.25	26.57	1.11	1.15	1.09
225	3.85	2.95	3.40	0.90	0.42	25.38	1.13	1.17	1.10
230	4.10	2.81	3.45	1.29	0.69	24.15	1.15	1.19	1.11
235	4.40	2.65	3.52	1.74	1.02	22.91	1.18	1.22	1.13
240	4.76	2.49	3.62	2.27	1.44	21.65	1.20	1.25	1.15
245	5.20	2.32	3.76	2.88	2.04	20.38	1.23	1.29	1.18
250	5.76	2.16	3.96	3.60	2.90	19.12	1.27	1.33	1.21

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

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