

# 2 Way-90° Power Splitter/Combiner

# JYPQ-160+

## Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS <sup>1</sup> (dB)			AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB) 1-2	VSWR (:1)		
	S-1	S-2	AVG.				S	1	2
50	6.83	1.17	4.00	5.66	89.37	24.05	1.14	1.13	1.16
55	6.27	1.34	3.81	4.93	89.38	23.64	1.15	1.14	1.17
60	5.78	1.52	3.65	4.26	89.41	23.30	1.15	1.14	1.17
65	5.36	1.70	3.53	3.66	89.45	23.03	1.16	1.14	1.18
70	5.01	1.87	3.44	3.14	89.48	22.83	1.16	1.15	1.18
75	4.69	2.04	3.37	2.65	89.54	22.65	1.16	1.15	1.18
80	4.42	2.20	3.31	2.22	89.59	22.51	1.16	1.15	1.18
85	4.19	2.36	3.27	1.83	89.67	22.40	1.16	1.15	1.18
90	3.98	2.51	3.25	1.47	89.73	22.33	1.16	1.14	1.18
95	3.80	2.65	3.23	1.15	89.82	22.27	1.16	1.14	1.18
100	3.64	2.78	3.21	0.86	89.87	22.26	1.16	1.14	1.18
105	3.51	2.90	3.21	0.61	89.98	22.22	1.15	1.14	1.17
110	3.40	3.02	3.21	0.38	90.05	22.19	1.15	1.14	1.17
115	3.30	3.11	3.20	0.19	90.20	22.17	1.15	1.14	1.17
120	3.22	3.20	3.21	0.02	90.30	22.14	1.15	1.14	1.17
125	3.16	3.28	3.22	0.12	90.41	22.12	1.15	1.14	1.17
130	3.11	3.34	3.22	0.23	90.55	22.07	1.15	1.14	1.16
135	3.08	3.39	3.24	0.31	90.66	22.02	1.15	1.14	1.16
140	3.06	3.42	3.24	0.36	90.80	21.95	1.15	1.14	1.16
145	3.05	3.45	3.25	0.40	90.99	21.85	1.15	1.14	1.16
150	3.06	3.45	3.25	0.39	91.13	21.78	1.15	1.14	1.17
155	3.08	3.45	3.26	0.37	91.33	21.67	1.15	1.15	1.17
160	3.12	3.43	3.27	0.31	91.53	21.55	1.16	1.16	1.17
165	3.17	3.39	3.28	0.22	91.75	21.40	1.16	1.16	1.18
170	3.25	3.34	3.29	0.09	92.00	21.24	1.17	1.17	1.18
175	3.35	3.28	3.31	0.07	92.31	21.03	1.18	1.19	1.19
180	3.48	3.20	3.34	0.28	92.60	20.79	1.19	1.20	1.20
185	3.62	3.11	3.36	0.51	93.00	20.52	1.21	1.22	1.21
190	3.81	3.00	3.40	0.81	93.43	20.20	1.23	1.24	1.23
195	4.02	2.88	3.45	1.14	93.96	19.86	1.25	1.26	1.25
200	4.29	2.74	3.51	1.55	94.54	19.47	1.27	1.28	1.27
205	4.61	2.60	3.61	2.01	95.25	19.04	1.30	1.31	1.30
210	5.00	2.45	3.73	2.55	96.16	18.58	1.33	1.34	1.33
215	5.48	2.29	3.88	3.19	97.27	18.07	1.37	1.38	1.36
220	6.06	2.13	4.10	3.93	98.73	17.55	1.41	1.42	1.40

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

# 2 Way-90° Power Splitter/Combiner

# JYPQ-160+

## Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS <sup>1</sup> (dB)			AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB) 1-2	VSWR (:1)		
	S-1	S-2	AVG.				S	1	2
50	6.83	1.12	3.97	5.71	89.49	24.71	1.11	1.12	1.13
55	6.26	1.29	3.78	4.97	89.50	24.26	1.12	1.12	1.13
60	5.77	1.47	3.62	4.30	89.51	23.88	1.12	1.12	1.14
65	5.35	1.64	3.49	3.71	89.53	23.53	1.12	1.13	1.14
70	4.99	1.82	3.40	3.17	89.55	23.23	1.13	1.13	1.14
75	4.67	1.99	3.33	2.68	89.59	22.97	1.14	1.14	1.15
80	4.40	2.15	3.28	2.25	89.62	22.74	1.14	1.14	1.15
85	4.16	2.31	3.23	1.85	89.67	22.55	1.15	1.14	1.16
90	3.95	2.46	3.21	1.49	89.72	22.43	1.15	1.14	1.16
95	3.77	2.60	3.18	1.17	89.78	22.32	1.15	1.14	1.17
100	3.62	2.73	3.17	0.89	89.85	22.29	1.15	1.14	1.17
105	3.48	2.85	3.16	0.63	89.94	22.26	1.15	1.14	1.17
110	3.37	2.96	3.16	0.41	90.00	22.25	1.15	1.14	1.17
115	3.27	3.05	3.16	0.22	90.16	22.28	1.15	1.14	1.17
120	3.18	3.14	3.16	0.04	90.25	22.31	1.15	1.13	1.16
125	3.11	3.21	3.16	0.10	90.37	22.35	1.14	1.13	1.15
130	3.06	3.28	3.17	0.22	90.49	22.36	1.14	1.13	1.15
135	3.02	3.33	3.17	0.31	90.61	22.35	1.13	1.13	1.14
140	2.99	3.36	3.17	0.37	90.73	22.34	1.13	1.13	1.14
145	2.98	3.38	3.18	0.40	90.86	22.29	1.13	1.13	1.14
150	2.98	3.39	3.19	0.41	90.99	22.21	1.13	1.14	1.13
155	3.01	3.40	3.21	0.39	91.17	22.09	1.13	1.14	1.14
160	3.04	3.37	3.20	0.33	91.32	21.93	1.14	1.15	1.14
165	3.09	3.34	3.21	0.25	91.51	21.74	1.14	1.15	1.15
170	3.16	3.29	3.23	0.13	91.72	21.52	1.15	1.16	1.15
175	3.25	3.23	3.24	0.02	91.98	21.25	1.16	1.18	1.17
180	3.37	3.15	3.26	0.22	92.24	20.95	1.18	1.19	1.18
185	3.51	3.06	3.28	0.45	92.60	20.61	1.20	1.21	1.20
190	3.69	2.95	3.32	0.74	92.99	20.25	1.22	1.23	1.22
195	3.89	2.83	3.36	1.06	93.48	19.86	1.24	1.25	1.24
200	4.15	2.69	3.42	1.46	94.03	19.43	1.27	1.28	1.27
205	4.45	2.55	3.50	1.90	94.69	18.98	1.30	1.31	1.29
210	4.82	2.39	3.61	2.43	95.52	18.50	1.33	1.35	1.33
215	5.28	2.24	3.76	3.04	96.54	17.98	1.37	1.38	1.36
220	5.83	2.07	3.95	3.76	97.87	17.45	1.41	1.42	1.40

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

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# 2 Way-90° Power Splitter/Combiner

# JYPQ-160+

## Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS <sup>1</sup> (dB)			AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB) 1-2	VSWR (:1)		
	S-1	S-2	AVG.				S	1	2
50	6.85	1.20	4.02	5.65	89.28	23.57	1.16	1.15	1.19
55	6.30	1.37	3.84	4.93	89.28	23.18	1.18	1.16	1.20
60	5.82	1.55	3.69	4.27	89.31	22.88	1.19	1.16	1.21
65	5.40	1.72	3.56	3.68	89.37	22.68	1.19	1.16	1.22
70	5.05	1.90	3.48	3.15	89.44	22.54	1.19	1.16	1.22
75	4.73	2.07	3.40	2.66	89.52	22.46	1.19	1.16	1.22
80	4.46	2.23	3.35	2.23	89.58	22.40	1.18	1.15	1.21
85	4.22	2.38	3.30	1.84	89.69	22.38	1.18	1.15	1.21
90	4.01	2.53	3.27	1.48	89.78	22.38	1.17	1.14	1.20
95	3.83	2.67	3.25	1.16	89.87	22.38	1.16	1.14	1.19
100	3.67	2.79	3.23	0.88	89.96	22.39	1.16	1.14	1.18
105	3.54	2.91	3.23	0.63	90.06	22.35	1.15	1.14	1.18
110	3.43	3.03	3.23	0.40	90.13	22.29	1.15	1.13	1.17
115	3.34	3.13	3.24	0.21	90.28	22.23	1.15	1.13	1.17
120	3.26	3.21	3.24	0.05	90.38	22.15	1.15	1.14	1.17
125	3.19	3.29	3.24	0.10	90.49	22.04	1.15	1.14	1.17
130	3.15	3.35	3.25	0.20	90.63	21.92	1.15	1.14	1.17
135	3.12	3.40	3.26	0.28	90.76	21.78	1.16	1.14	1.18
140	3.10	3.44	3.27	0.34	90.89	21.66	1.16	1.14	1.18
145	3.10	3.46	3.28	0.36	91.09	21.53	1.17	1.15	1.19
150	3.12	3.47	3.29	0.35	91.26	21.40	1.17	1.15	1.20
155	3.15	3.47	3.31	0.32	91.50	21.26	1.18	1.16	1.20
160	3.19	3.45	3.32	0.26	91.73	21.14	1.18	1.17	1.21
165	3.25	3.41	3.33	0.16	92.00	20.99	1.19	1.18	1.21
170	3.33	3.36	3.34	0.03	92.29	20.86	1.20	1.19	1.22
175	3.43	3.30	3.37	0.13	92.63	20.68	1.21	1.20	1.22
180	3.56	3.22	3.39	0.34	92.99	20.49	1.22	1.22	1.23
185	3.71	3.13	3.42	0.58	93.41	20.26	1.24	1.23	1.24
190	3.90	3.03	3.47	0.87	93.87	20.00	1.25	1.25	1.25
195	4.12	2.91	3.51	1.21	94.42	19.70	1.27	1.27	1.26
200	4.39	2.77	3.58	1.62	95.07	19.34	1.29	1.29	1.28
205	4.72	2.62	3.67	2.10	95.81	18.93	1.31	1.32	1.30
210	5.13	2.47	3.80	2.66	96.79	18.48	1.34	1.35	1.32
215	5.62	2.32	3.97	3.30	97.99	17.99	1.38	1.38	1.36
220	6.23	2.16	4.20	4.07	99.56	17.48	1.42	1.42	1.39

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

