

6 Way-0° Power Splitter/Combiner

JCPS-6-3

Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS ¹ (dB)			AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB)			VSWR (:1)		
	S-1	S-3	S-5			1-2	1-3	1-6	S	1	3
25	8.97	8.96	9.00	0.04	0.43	20.65	20.74	28.18	1.92	1.67	1.67
50	8.76	8.76	8.77	0.01	0.39	23.46	23.76	32.69	1.47	1.36	1.35
60	8.74	8.74	8.75	0.01	0.42	23.76	24.14	33.45	1.41	1.32	1.31
70	8.74	8.73	8.74	0.02	0.45	23.84	24.31	33.97	1.38	1.29	1.29
75	8.73	8.73	8.74	0.02	0.47	23.84	24.33	34.19	1.37	1.28	1.27
80	8.73	8.73	8.74	0.01	0.48	23.80	24.33	34.39	1.35	1.27	1.26
90	8.73	8.73	8.74	0.02	0.53	23.68	24.27	34.72	1.34	1.26	1.25
100	8.73	8.73	8.74	0.02	0.58	23.51	24.16	35.01	1.33	1.24	1.23
120	8.74	8.73	8.74	0.02	0.66	23.13	23.87	35.48	1.32	1.22	1.21
140	8.74	8.74	8.75	0.03	0.73	22.72	23.55	35.83	1.31	1.20	1.19
160	8.75	8.74	8.76	0.03	0.83	22.36	23.24	36.09	1.30	1.18	1.17
180	8.76	8.75	8.77	0.04	0.93	22.05	22.98	36.30	1.30	1.17	1.15
200	8.76	8.75	8.77	0.04	0.97	21.81	22.78	36.44	1.29	1.15	1.13
210	8.76	8.75	8.78	0.05	1.05	21.71	22.71	36.53	1.29	1.14	1.12
220	8.77	8.76	8.78	0.05	1.09	21.64	22.65	36.60	1.28	1.13	1.11
230	8.78	8.76	8.78	0.05	1.11	21.58	22.61	36.65	1.28	1.13	1.10
240	8.77	8.75	8.78	0.05	1.14	21.54	22.60	36.73	1.27	1.12	1.10
250	8.78	8.75	8.79	0.06	1.24	21.52	22.60	36.79	1.26	1.11	1.09
260	8.78	8.76	8.79	0.07	1.28	21.53	22.62	36.86	1.25	1.11	1.08
270	8.78	8.76	8.80	0.07	1.28	21.55	22.68	36.93	1.24	1.10	1.07
280	8.78	8.75	8.79	0.08	1.34	21.59	22.74	37.02	1.23	1.09	1.06
290	8.77	8.75	8.79	0.08	1.39	21.65	22.84	37.11	1.22	1.08	1.06
300	8.78	8.74	8.79	0.09	1.46	21.75	22.97	37.22	1.20	1.08	1.05
320	8.77	8.74	8.79	0.09	1.52	22.01	23.31	37.44	1.17	1.06	1.03
340	8.77	8.73	8.79	0.10	1.63	22.35	23.78	37.70	1.13	1.04	1.02
360	8.77	8.73	8.80	0.12	1.68	22.78	24.41	38.02	1.08	1.03	1.01
380	8.77	8.72	8.80	0.13	1.79	23.25	25.19	38.31	1.04	1.01	1.02
400	8.79	8.73	8.82	0.14	1.88	23.70	26.09	38.48	1.05	1.01	1.04
410	8.80	8.74	8.83	0.15	1.94	23.87	26.56	38.51	1.08	1.01	1.04
420	8.82	8.76	8.85	0.15	2.02	23.97	26.98	38.42	1.12	1.02	1.05
425	8.83	8.76	8.86	0.15	1.99	24.01	27.19	38.38	1.14	1.03	1.06
430	8.84	8.78	8.87	0.16	1.99	24.00	27.34	38.31	1.16	1.03	1.06
440	8.87	8.80	8.90	0.17	2.08	23.88	27.53	38.06	1.21	1.04	1.07
450	8.91	8.83	8.94	0.17	2.14	23.64	27.51	37.74	1.26	1.05	1.08
460	8.95	8.87	8.98	0.18	2.21	23.28	27.24	37.28	1.32	1.06	1.08
470	9.01	8.92	9.04	0.18	2.25	22.78	26.70	36.76	1.39	1.07	1.09
480	9.08	8.99	9.10	0.19	2.33	22.18	25.96	36.18	1.46	1.08	1.10
490	9.16	9.07	9.18	0.19	2.34	21.52	25.08	35.55	1.54	1.09	1.11
500	9.24	9.15	9.27	0.20	2.36	20.79	24.12	34.87	1.63	1.10	1.12

¹Total Loss = Insertion Loss + 7.8dB Splitter Loss

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6 Way-0° Power Splitter/Combiner

JCPS-6-3

Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS ¹ (dB)			AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB)			VSWR (:1)		
	S-1	S-3	S-5			1-2	1-3	1-6	S	1	3
25	9.12	9.12	9.17	0.07	0.33	20.52	20.59	26.19	2.08	1.89	1.88
50	8.82	8.82	8.85	0.04	0.41	23.05	23.33	30.50	1.54	1.44	1.44
60	8.79	8.79	8.82	0.04	0.42	23.35	23.71	31.37	1.47	1.39	1.38
70	8.78	8.78	8.81	0.04	0.45	23.44	23.88	32.01	1.43	1.36	1.35
75	8.78	8.78	8.80	0.03	0.48	23.44	23.92	32.27	1.41	1.35	1.34
80	8.77	8.77	8.80	0.03	0.49	23.41	23.92	32.50	1.40	1.33	1.33
90	8.77	8.77	8.79	0.04	0.54	23.29	23.86	32.93	1.38	1.32	1.31
100	8.76	8.76	8.78	0.04	0.58	23.14	23.76	33.33	1.37	1.30	1.29
120	8.76	8.75	8.78	0.04	0.66	22.78	23.48	34.07	1.35	1.27	1.26
140	8.75	8.74	8.78	0.05	0.71	22.40	23.19	34.77	1.35	1.25	1.23
160	8.75	8.74	8.77	0.06	0.77	22.09	22.93	35.44	1.34	1.22	1.21
180	8.74	8.74	8.78	0.06	0.88	21.84	22.72	36.05	1.34	1.20	1.18
200	8.74	8.73	8.77	0.07	0.93	21.66	22.58	36.59	1.33	1.19	1.17
210	8.74	8.73	8.78	0.08	0.97	21.59	22.54	36.84	1.33	1.18	1.16
220	8.75	8.73	8.78	0.08	1.00	21.55	22.51	37.07	1.32	1.17	1.15
230	8.74	8.72	8.77	0.08	1.03	21.52	22.51	37.28	1.31	1.16	1.14
240	8.74	8.72	8.77	0.09	1.05	21.52	22.52	37.48	1.31	1.15	1.13
250	8.73	8.71	8.77	0.09	1.14	21.54	22.56	37.66	1.29	1.14	1.12
260	8.73	8.71	8.77	0.10	1.14	21.58	22.63	37.84	1.28	1.13	1.11
270	8.73	8.70	8.77	0.10	1.18	21.64	22.71	38.02	1.27	1.13	1.10
280	8.72	8.69	8.76	0.10	1.25	21.72	22.82	38.21	1.26	1.12	1.09
290	8.71	8.68	8.75	0.11	1.29	21.83	22.95	38.35	1.24	1.11	1.08
300	8.71	8.67	8.75	0.11	1.35	21.97	23.13	38.51	1.23	1.10	1.07
320	8.70	8.66	8.75	0.13	1.42	22.31	23.57	38.84	1.19	1.08	1.06
340	8.68	8.64	8.73	0.13	1.48	22.76	24.15	39.14	1.15	1.07	1.04
360	8.68	8.63	8.73	0.15	1.52	23.32	24.93	39.48	1.10	1.05	1.03
380	8.67	8.62	8.73	0.16	1.60	23.94	25.91	39.76	1.04	1.03	1.02
400	8.68	8.62	8.73	0.17	1.72	24.54	27.09	39.90	1.03	1.01	1.03
410	8.69	8.63	8.74	0.18	1.75	24.78	27.73	39.84	1.06	1.01	1.03
420	8.70	8.64	8.76	0.18	1.82	24.91	28.32	39.68	1.10	1.01	1.04
425	8.72	8.65	8.77	0.18	1.78	24.96	28.61	39.59	1.13	1.01	1.04
430	8.72	8.66	8.78	0.19	1.79	24.95	28.83	39.46	1.15	1.02	1.05
440	8.75	8.67	8.81	0.20	1.90	24.80	29.09	39.13	1.20	1.03	1.05
450	8.78	8.70	8.84	0.20	1.97	24.48	29.02	38.70	1.25	1.04	1.06
460	8.82	8.74	8.88	0.20	1.99	24.02	28.58	38.14	1.31	1.05	1.07
470	8.87	8.79	8.93	0.21	2.05	23.39	27.79	37.48	1.38	1.06	1.08
480	8.93	8.84	8.99	0.21	2.14	22.66	26.76	36.81	1.46	1.07	1.09
490	9.02	8.92	9.07	0.22	2.21	21.87	25.64	36.11	1.54	1.08	1.10
500	9.09	9.00	9.15	0.22	2.24	21.05	24.50	35.35	1.63	1.10	1.11

¹Total Loss = Insertion Loss + 7.8dB Splitter Loss

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6 Way-0° Power Splitter/Combiner

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Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS ¹ (dB)			AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB)			VSWR (:1)		
	S-1	S-3	S-5			1-2	1-3	1-6	S	1	3
25	8.98	8.98	9.01	0.04	0.46	21.12	21.22	28.70	1.85	1.63	1.62
50	8.81	8.81	8.82	0.02	0.46	23.71	24.02	32.28	1.44	1.37	1.36
60	8.79	8.80	8.81	0.01	0.49	23.92	24.33	32.88	1.39	1.33	1.33
70	8.79	8.78	8.80	0.01	0.51	23.96	24.43	33.32	1.36	1.31	1.30
75	8.78	8.78	8.80	0.02	0.50	23.93	24.44	33.51	1.35	1.29	1.29
80	8.78	8.78	8.79	0.02	0.54	23.87	24.43	33.68	1.34	1.28	1.28
90	8.78	8.78	8.79	0.02	0.61	23.73	24.33	34.00	1.32	1.27	1.26
100	8.78	8.78	8.80	0.03	0.64	23.54	24.20	34.27	1.31	1.25	1.24
120	8.79	8.79	8.80	0.02	0.75	23.14	23.88	34.75	1.30	1.22	1.22
140	8.80	8.79	8.81	0.03	0.84	22.73	23.55	35.15	1.29	1.21	1.19
160	8.81	8.80	8.82	0.03	0.90	22.36	23.24	35.47	1.28	1.19	1.18
180	8.81	8.81	8.83	0.04	1.05	22.05	22.98	35.73	1.28	1.17	1.16
200	8.82	8.81	8.83	0.04	1.09	21.81	22.77	35.94	1.27	1.15	1.14
210	8.82	8.81	8.83	0.05	1.16	21.71	22.70	36.05	1.26	1.14	1.13
220	8.83	8.82	8.84	0.05	1.21	21.63	22.64	36.14	1.25	1.13	1.11
230	8.83	8.82	8.84	0.05	1.25	21.58	22.59	36.23	1.25	1.13	1.11
240	8.83	8.81	8.84	0.05	1.32	21.54	22.57	36.32	1.24	1.12	1.10
250	8.84	8.82	8.85	0.06	1.34	21.52	22.58	36.41	1.23	1.11	1.09
260	8.84	8.82	8.85	0.06	1.42	21.53	22.60	36.52	1.22	1.10	1.08
270	8.84	8.82	8.86	0.07	1.42	21.54	22.65	36.61	1.21	1.09	1.07
280	8.84	8.82	8.86	0.07	1.51	21.59	22.71	36.71	1.20	1.09	1.06
290	8.84	8.82	8.86	0.08	1.54	21.66	22.81	36.82	1.19	1.08	1.05
300	8.84	8.81	8.86	0.08	1.65	21.75	22.94	36.93	1.18	1.07	1.05
320	8.85	8.82	8.87	0.09	1.72	22.00	23.27	37.20	1.14	1.06	1.03
340	8.85	8.81	8.87	0.10	1.80	22.34	23.74	37.47	1.11	1.04	1.01
360	8.85	8.81	8.88	0.12	1.88	22.79	24.37	37.76	1.07	1.02	1.01
380	8.86	8.81	8.89	0.12	1.98	23.27	25.15	37.98	1.04	1.01	1.02
400	8.88	8.83	8.91	0.14	2.10	23.73	26.06	38.07	1.07	1.01	1.04
410	8.90	8.84	8.92	0.14	2.14	23.93	26.55	38.04	1.10	1.02	1.05
420	8.92	8.87	8.95	0.14	2.20	24.05	27.00	37.90	1.14	1.03	1.06
425	8.93	8.87	8.96	0.15	2.20	24.09	27.23	37.82	1.16	1.03	1.06
430	8.95	8.89	8.97	0.15	2.21	24.08	27.39	37.70	1.18	1.04	1.06
440	8.98	8.91	9.01	0.16	2.34	23.98	27.62	37.42	1.23	1.05	1.07
450	9.02	8.95	9.04	0.16	2.38	23.76	27.64	37.09	1.28	1.06	1.08
460	9.07	8.99	9.09	0.17	2.40	23.41	27.42	36.59	1.34	1.06	1.09
470	9.13	9.05	9.15	0.18	2.48	22.91	26.92	36.08	1.40	1.07	1.10
480	9.20	9.11	9.22	0.18	2.54	22.32	26.18	35.50	1.47	1.08	1.11
490	9.28	9.19	9.30	0.18	2.57	21.66	25.32	34.87	1.55	1.09	1.11
500	9.37	9.28	9.39	0.19	2.61	20.94	24.35	34.25	1.64	1.11	1.12

¹Total Loss = Insertion Loss + 7.8dB Splitter Loss

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