

# 4 Way-0° Power Splitter/Combiner

# JS4PS-1W+

## 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)			VSWR (:1)				
	S-1	S-2	S-3	S-4			1-2	2-3	3-4	S	1	2	3	4
5	6.20	6.38	6.33	6.51	0.32	0.73	29.13	36.26	32.08	1.05	1.26	1.31	1.28	1.32
10	6.20	6.38	6.33	6.50	0.30	0.43	30.39	37.90	32.87	1.04	1.23	1.28	1.24	1.29
20	6.22	6.40	6.35	6.52	0.30	0.18	30.68	38.33	32.75	1.04	1.21	1.26	1.23	1.27
30	6.24	6.41	6.37	6.53	0.30	0.19	30.35	37.94	32.23	1.05	1.21	1.26	1.23	1.27
40	6.25	6.43	6.39	6.55	0.30	0.22	30.01	37.62	31.72	1.05	1.21	1.26	1.23	1.27
50	6.26	6.44	6.40	6.56	0.30	0.24	29.69	37.35	31.22	1.06	1.21	1.25	1.23	1.27
60	6.27	6.45	6.41	6.58	0.30	0.26	29.38	37.06	30.70	1.06	1.21	1.25	1.22	1.27
70	6.28	6.46	6.42	6.58	0.30	0.38	29.07	36.82	30.20	1.07	1.21	1.25	1.22	1.27
80	6.30	6.47	6.44	6.60	0.30	0.41	28.75	36.57	29.70	1.07	1.20	1.25	1.22	1.26
90	6.30	6.48	6.45	6.61	0.30	0.45	28.43	36.33	29.22	1.08	1.20	1.25	1.22	1.26
100	6.31	6.49	6.46	6.62	0.30	0.53	28.12	36.10	28.76	1.08	1.20	1.24	1.22	1.26
150	6.36	6.53	6.50	6.66	0.31	0.79	26.63	35.00	26.71	1.11	1.19	1.24	1.21	1.24
200	6.40	6.58	6.54	6.71	0.31	1.04	25.30	34.04	25.07	1.13	1.19	1.23	1.20	1.23
250	6.44	6.61	6.58	6.75	0.31	1.34	24.14	33.19	23.78	1.14	1.18	1.22	1.19	1.21
300	6.48	6.65	6.62	6.81	0.32	1.59	23.11	32.44	22.74	1.15	1.17	1.21	1.18	1.20
350	6.53	6.69	6.66	6.85	0.32	1.81	22.20	31.82	21.89	1.16	1.17	1.20	1.16	1.18
400	6.57	6.73	6.71	6.90	0.32	2.10	21.41	31.29	21.21	1.17	1.16	1.19	1.15	1.16
450	6.61	6.77	6.75	6.94	0.33	2.37	20.71	30.85	20.66	1.17	1.15	1.18	1.14	1.14
500	6.66	6.81	6.79	6.98	0.32	2.62	20.12	30.49	20.24	1.17	1.14	1.16	1.13	1.12
550	6.71	6.85	6.84	7.04	0.32	2.85	19.61	30.22	19.92	1.17	1.13	1.15	1.12	1.10
600	6.77	6.90	6.89	7.09	0.32	3.05	19.18	30.01	19.69	1.17	1.12	1.14	1.11	1.08
650	6.82	6.95	6.94	7.14	0.31	3.30	18.82	29.84	19.54	1.17	1.11	1.12	1.11	1.07
700	6.88	6.99	7.00	7.19	0.31	3.51	18.52	29.67	19.43	1.17	1.10	1.10	1.10	1.05
750	6.94	7.04	7.06	7.24	0.30	3.68	18.26	29.52	19.37	1.16	1.08	1.09	1.10	1.04
800	7.01	7.10	7.13	7.30	0.29	3.92	18.05	29.33	19.32	1.16	1.07	1.07	1.10	1.04
850	7.08	7.16	7.20	7.36	0.28	4.13	17.84	29.07	19.26	1.15	1.06	1.05	1.10	1.04
900	7.16	7.22	7.28	7.42	0.27	4.40	17.65	28.74	19.18	1.14	1.05	1.04	1.10	1.06
950	7.24	7.29	7.37	7.49	0.25	4.59	17.48	28.36	19.09	1.13	1.05	1.02	1.10	1.07
1000	7.33	7.37	7.47	7.57	0.23	4.82	17.31	27.94	18.98	1.12	1.04	1.02	1.10	1.08
1050	7.43	7.45	7.57	7.65	0.22	5.01	17.17	27.52	18.86	1.10	1.04	1.03	1.10	1.10
1100	7.54	7.54	7.69	7.75	0.21	5.29	17.08	27.06	18.77	1.08	1.06	1.05	1.10	1.12
1150	7.65	7.64	7.81	7.85	0.21	5.68	17.04	26.61	18.73	1.06	1.08	1.07	1.10	1.14
1200	7.77	7.74	7.95	7.95	0.21	6.12	17.07	26.21	18.77	1.06	1.10	1.10	1.10	1.17
1250	7.90	7.86	8.09	8.07	0.23	6.54	17.22	25.81	18.94	1.06	1.13	1.14	1.12	1.20
1300	8.04	7.98	8.24	8.19	0.26	7.02	17.48	25.45	19.27	1.08	1.17	1.17	1.14	1.24
1350	8.19	8.12	8.42	8.34	0.30	7.59	17.91	25.08	19.79	1.10	1.20	1.21	1.16	1.28
1400	8.36	8.27	8.60	8.49	0.33	8.08	18.52	24.80	20.56	1.11	1.24	1.24	1.19	1.32
1450	8.54	8.43	8.81	8.67	0.38	8.65	19.36	24.58	21.70	1.13	1.28	1.28	1.23	1.36
1500	8.74	8.62	9.05	8.87	0.43	9.19	20.47	24.38	23.28	1.14	1.32	1.33	1.26	1.41
1600	9.19	9.05	9.59	9.36	0.54	10.31	24.33	24.22	28.78	1.13	1.39	1.41	1.34	1.50

<sup>1</sup>Total Loss = Insertion Loss + 6dB Splitter Loss



# 4 Way-0° Power Splitter/Combiner

# JS4PS-1W+

## 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)			VSWR (:1)				
	S-1	S-2	S-3	S-4			1-2	2-3	3-4	S	1	2	3	4
5	6.21	6.42	6.37	6.57	0.36	1.63	25.19	33.29	26.87	1.08	1.36	1.44	1.39	1.47
10	6.20	6.35	6.32	6.47	0.27	1.07	28.77	36.45	30.54	1.06	1.26	1.31	1.28	1.33
20	6.19	6.33	6.30	6.43	0.24	0.51	32.07	38.89	34.13	1.05	1.21	1.24	1.22	1.25
30	6.21	6.33	6.31	6.43	0.22	0.36	32.88	39.26	35.00	1.06	1.19	1.22	1.20	1.23
40	6.21	6.33	6.32	6.44	0.22	0.28	32.93	39.19	34.83	1.07	1.18	1.21	1.19	1.22
50	6.22	6.34	6.32	6.44	0.22	0.29	32.62	38.94	34.27	1.07	1.18	1.20	1.18	1.21
60	6.23	6.35	6.33	6.45	0.22	0.31	32.21	38.67	33.54	1.08	1.17	1.20	1.18	1.21
70	6.24	6.36	6.34	6.45	0.22	0.41	31.73	38.34	32.78	1.09	1.17	1.20	1.18	1.21
80	6.25	6.37	6.35	6.46	0.22	0.41	31.22	38.02	32.03	1.09	1.17	1.20	1.18	1.21
90	6.25	6.37	6.35	6.47	0.22	0.50	30.70	37.69	31.34	1.10	1.16	1.20	1.18	1.21
100	6.26	6.38	6.36	6.48	0.22	0.52	30.19	37.35	30.68	1.10	1.16	1.20	1.18	1.21
150	6.29	6.41	6.39	6.51	0.22	0.83	27.97	35.82	27.98	1.12	1.16	1.18	1.17	1.19
200	6.33	6.44	6.42	6.55	0.22	1.12	26.19	34.52	25.99	1.15	1.15	1.18	1.16	1.19
250	6.36	6.47	6.45	6.58	0.22	1.38	24.73	33.44	24.46	1.16	1.15	1.18	1.16	1.18
300	6.40	6.50	6.49	6.62	0.22	1.65	23.51	32.54	23.25	1.18	1.15	1.17	1.15	1.16
350	6.43	6.53	6.52	6.65	0.22	1.92	22.49	31.77	22.29	1.19	1.14	1.17	1.14	1.16
400	6.47	6.56	6.55	6.69	0.22	2.22	21.62	31.15	21.50	1.19	1.13	1.16	1.13	1.14
450	6.50	6.59	6.58	6.72	0.22	2.49	20.88	30.63	20.87	1.19	1.13	1.15	1.12	1.13
500	6.54	6.62	6.62	6.76	0.21	2.76	20.25	30.21	20.38	1.20	1.12	1.14	1.11	1.11
550	6.58	6.65	6.65	6.79	0.22	3.01	19.73	29.89	20.01	1.19	1.11	1.14	1.10	1.09
600	6.62	6.68	6.69	6.83	0.21	3.22	19.27	29.62	19.73	1.19	1.10	1.12	1.09	1.07
650	6.67	6.72	6.73	6.87	0.20	3.45	18.89	29.43	19.52	1.18	1.09	1.10	1.09	1.05
700	6.71	6.75	6.78	6.91	0.19	3.67	18.58	29.24	19.37	1.18	1.08	1.09	1.08	1.04
750	6.77	6.79	6.82	6.94	0.17	3.89	18.30	29.05	19.28	1.17	1.07	1.07	1.08	1.03
800	6.82	6.83	6.88	6.99	0.17	4.16	18.06	28.88	19.20	1.17	1.06	1.06	1.07	1.03
850	6.88	6.88	6.94	7.04	0.17	4.36	17.84	28.62	19.13	1.16	1.05	1.05	1.08	1.04
900	6.94	6.92	7.00	7.09	0.17	4.65	17.62	28.29	19.05	1.15	1.04	1.03	1.08	1.05
950	7.01	6.98	7.07	7.14	0.17	4.87	17.41	27.95	18.98	1.14	1.04	1.02	1.08	1.07
1000	7.09	7.04	7.15	7.20	0.17	5.15	17.23	27.61	18.87	1.12	1.04	1.02	1.08	1.09
1050	7.17	7.10	7.25	7.28	0.18	5.33	17.06	27.17	18.77	1.10	1.05	1.02	1.09	1.11
1100	7.26	7.18	7.34	7.36	0.19	5.55	16.94	26.73	18.69	1.08	1.06	1.05	1.09	1.13
1150	7.36	7.25	7.44	7.44	0.19	5.85	16.87	26.30	18.67	1.07	1.08	1.08	1.09	1.15
1200	7.45	7.33	7.56	7.53	0.22	6.10	16.87	25.93	18.73	1.06	1.11	1.10	1.11	1.18
1250	7.56	7.43	7.67	7.62	0.24	6.35	16.99	25.53	18.92	1.06	1.14	1.14	1.12	1.21
1300	7.68	7.54	7.80	7.73	0.26	6.53	17.23	25.15	19.26	1.08	1.17	1.17	1.15	1.25
1350	7.81	7.65	7.96	7.86	0.31	6.87	17.61	24.70	19.82	1.10	1.21	1.20	1.18	1.29
1400	7.95	7.77	8.11	7.99	0.34	7.12	18.20	24.55	20.61	1.11	1.25	1.24	1.21	1.33
1450	8.09	7.90	8.29	8.14	0.39	7.69	19.01	24.25	21.81	1.13	1.29	1.28	1.25	1.37
1500	8.25	8.05	8.49	8.32	0.44	8.16	20.09	24.00	23.45	1.14	1.33	1.32	1.28	1.42
1600	8.65	8.42	8.97	8.76	0.55	9.09	23.62	23.73	28.77	1.13	1.39	1.41	1.36	1.51

<sup>1</sup>Total Loss = Insertion Loss + 6dB Splitter Loss



# 4 Way-0° Power Splitter/Combiner

# JS4PS-1W+

## 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)			VSWR (:1)				
	S-1	S-2	S-3	S-4			1-2	2-3	3-4	S	1	2	3	4
5	6.25	6.49	6.43	6.66	0.41	0.45	27.01	34.83	29.43	1.05	1.32	1.39	1.34	1.40
10	6.26	6.49	6.43	6.66	0.41	0.25	27.51	35.48	29.80	1.04	1.30	1.36	1.32	1.38
20	6.28	6.52	6.46	6.69	0.41	0.11	27.54	35.53	29.68	1.04	1.29	1.35	1.31	1.37
30	6.30	6.54	6.48	6.71	0.41	0.10	27.35	35.29	29.34	1.04	1.28	1.35	1.31	1.37
40	6.32	6.55	6.50	6.73	0.41	0.17	27.14	35.10	28.98	1.04	1.28	1.35	1.31	1.37
50	6.34	6.57	6.51	6.75	0.41	0.21	26.94	34.95	28.61	1.05	1.28	1.35	1.31	1.37
60	6.35	6.58	6.53	6.76	0.41	0.24	26.75	34.81	28.24	1.05	1.28	1.35	1.31	1.37
70	6.36	6.60	6.54	6.77	0.42	0.32	26.56	34.67	27.86	1.05	1.28	1.35	1.30	1.36
80	6.38	6.61	6.56	6.79	0.41	0.37	26.36	34.52	27.47	1.05	1.28	1.34	1.30	1.36
90	6.39	6.62	6.56	6.79	0.41	0.45	26.15	34.38	27.10	1.06	1.27	1.33	1.29	1.35
100	6.40	6.63	6.57	6.81	0.41	0.47	25.95	34.26	26.73	1.07	1.27	1.33	1.29	1.34
150	6.45	6.68	6.63	6.86	0.41	0.76	24.92	33.64	25.04	1.09	1.26	1.32	1.28	1.32
200	6.49	6.72	6.68	6.91	0.41	1.01	23.89	33.04	23.65	1.10	1.25	1.30	1.26	1.30
250	6.54	6.77	6.72	6.96	0.42	1.31	22.93	32.49	22.51	1.12	1.24	1.28	1.24	1.27
300	6.59	6.82	6.77	7.02	0.43	1.54	22.05	31.99	21.60	1.13	1.23	1.27	1.23	1.25
350	6.65	6.86	6.82	7.07	0.43	1.81	21.25	31.55	20.88	1.14	1.22	1.25	1.21	1.23
400	6.70	6.91	6.87	7.13	0.43	2.13	20.56	31.19	20.32	1.14	1.21	1.24	1.20	1.20
450	6.75	6.96	6.93	7.19	0.44	2.39	19.95	30.90	19.89	1.14	1.19	1.22	1.18	1.18
500	6.81	7.01	6.98	7.24	0.43	2.62	19.45	30.67	19.59	1.14	1.18	1.20	1.17	1.15
550	6.87	7.06	7.04	7.30	0.43	2.85	19.02	30.51	19.40	1.14	1.17	1.18	1.16	1.13
600	6.93	7.12	7.10	7.36	0.43	3.08	18.68	30.37	19.29	1.15	1.15	1.16	1.15	1.11
650	7.00	7.18	7.16	7.42	0.42	3.31	18.40	30.28	19.23	1.15	1.14	1.14	1.14	1.08
700	7.07	7.23	7.23	7.48	0.41	3.51	18.17	30.16	19.23	1.15	1.12	1.12	1.13	1.07
750	7.15	7.30	7.31	7.54	0.39	3.69	17.98	30.02	19.25	1.14	1.11	1.10	1.13	1.06
800	7.22	7.36	7.38	7.61	0.39	3.94	17.83	29.83	19.28	1.14	1.10	1.08	1.13	1.05
850	7.30	7.44	7.47	7.68	0.38	4.15	17.69	29.55	19.27	1.14	1.08	1.06	1.12	1.05
900	7.40	7.51	7.56	7.76	0.36	4.45	17.55	29.20	19.25	1.13	1.07	1.05	1.12	1.06
950	7.50	7.59	7.66	7.83	0.33	4.69	17.43	28.80	19.21	1.12	1.06	1.03	1.12	1.07
1000	7.61	7.68	7.76	7.92	0.31	4.94	17.32	28.44	19.13	1.11	1.05	1.01	1.11	1.08
1050	7.72	7.78	7.88	8.02	0.30	5.07	17.23	27.97	19.05	1.09	1.05	1.02	1.11	1.09
1100	7.84	7.89	8.01	8.13	0.29	5.30	17.18	27.50	18.98	1.08	1.05	1.04	1.10	1.11
1150	7.97	8.00	8.14	8.23	0.27	5.60	17.18	27.07	18.94	1.06	1.07	1.06	1.10	1.13
1200	8.11	8.12	8.29	8.35	0.24	5.89	17.24	26.73	18.99	1.05	1.10	1.09	1.10	1.15
1250	8.25	8.24	8.43	8.47	0.23	6.11	17.42	26.35	19.13	1.06	1.13	1.12	1.11	1.18
1300	8.40	8.38	8.59	8.61	0.22	6.35	17.73	26.02	19.43	1.08	1.16	1.16	1.13	1.22
1350	8.57	8.54	8.78	8.76	0.24	6.74	18.18	25.64	19.91	1.09	1.19	1.19	1.15	1.25
1400	8.74	8.69	8.96	8.91	0.27	7.00	18.84	25.56	20.59	1.11	1.23	1.23	1.17	1.29
1450	8.92	8.86	9.16	9.09	0.30	7.36	19.78	25.34	21.62	1.12	1.27	1.27	1.21	1.33
1500	9.12	9.04	9.38	9.29	0.34	7.65	20.98	25.24	23.11	1.13	1.31	1.31	1.24	1.38
1600	9.60	9.49	9.90	9.76	0.41	8.56	25.25	25.25	28.79	1.13	1.39	1.40	1.32	1.47

<sup>1</sup>Total Loss = Insertion Loss + 6dB Splitter Loss

