

4 Way-0° Power Splitter/Combiner

JS4PS-1

Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS ¹ (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
3	7.29	7.31	7.31	7.15	0.16	2.31	20.44	24.72	21.08	2.57	3.76	3.87	3.78	3.79
4	7.04	7.04	7.04	6.95	0.10	1.94	20.96	26.37	21.46	2.06	2.81	2.85	2.80	2.81
5	6.79	6.77	6.76	6.74	0.05	1.56	21.48	28.02	21.83	1.74	2.27	2.29	2.26	2.26
6	6.72	6.69	6.69	6.69	0.03	1.27	22.02	29.40	22.27	1.59	2.02	2.03	2.01	2.01
7	6.72	6.69	6.69	6.70	0.03	1.01	22.57	30.68	22.72	1.50	1.86	1.86	1.85	1.85
8	6.72	6.69	6.69	6.70	0.03	0.79	23.08	31.84	23.15	1.43	1.74	1.74	1.73	1.73
9	6.72	6.70	6.70	6.71	0.03	0.69	23.47	32.57	23.47	1.39	1.67	1.67	1.67	1.67
10	6.73	6.70	6.71	6.71	0.02	0.59	23.87	33.30	23.80	1.35	1.62	1.62	1.61	1.61
25	6.66	6.66	6.67	6.65	0.01	0.31	25.60	37.37	25.32	1.22	1.38	1.38	1.38	1.38
50	6.64	6.65	6.65	6.64	0.01	0.19	26.86	37.34	26.62	1.18	1.30	1.30	1.30	1.31
75	6.65	6.66	6.66	6.65	0.01	0.16	27.45	35.59	27.25	1.18	1.28	1.28	1.28	1.28
80	6.65	6.66	6.66	6.65	0.01	0.12	27.50	35.21	27.32	1.18	1.28	1.27	1.28	1.28
100	6.67	6.68	6.68	6.67	0.02	0.20	27.60	33.84	27.42	1.19	1.27	1.27	1.27	1.27
125	6.70	6.70	6.71	6.69	0.02	0.12	27.50	32.36	27.34	1.20	1.27	1.27	1.27	1.27
150	6.73	6.73	6.73	6.71	0.02	0.16	27.28	31.17	27.10	1.21	1.27	1.27	1.27	1.27
175	6.74	6.75	6.75	6.73	0.02	0.10	27.01	30.20	26.82	1.22	1.28	1.28	1.28	1.28
200	6.77	6.78	6.78	6.75	0.03	0.09	26.76	29.38	26.55	1.23	1.28	1.29	1.29	1.28
225	6.80	6.81	6.80	6.77	0.03	0.09	26.56	28.75	26.31	1.22	1.29	1.29	1.30	1.29
250	6.81	6.82	6.81	6.78	0.04	0.07	26.40	28.22	26.13	1.22	1.30	1.30	1.30	1.30
275	6.83	6.85	6.83	6.79	0.05	0.07	26.36	27.83	26.04	1.20	1.30	1.31	1.31	1.30
300	6.84	6.85	6.84	6.79	0.07	0.06	26.38	27.52	26.01	1.18	1.31	1.32	1.32	1.31
325	6.85	6.87	6.85	6.80	0.07	0.06	26.53	27.34	26.07	1.16	1.32	1.33	1.33	1.31
350	6.86	6.88	6.86	6.79	0.09	0.12	26.77	27.27	26.21	1.14	1.32	1.33	1.34	1.32
375	6.87	6.89	6.87	6.79	0.10	0.21	27.14	27.31	26.44	1.12	1.33	1.35	1.35	1.33
400	6.88	6.90	6.88	6.78	0.12	0.24	27.64	27.48	26.76	1.13	1.34	1.36	1.36	1.34
425	6.90	6.93	6.89	6.79	0.14	0.26	28.27	27.80	27.13	1.17	1.35	1.38	1.38	1.35
450	6.92	6.95	6.91	6.80	0.15	0.33	28.92	28.27	27.52	1.23	1.37	1.40	1.40	1.36
475	6.96	7.00	6.95	6.82	0.18	0.49	29.49	28.96	27.82	1.32	1.40	1.43	1.43	1.39
500	7.01	7.07	7.01	6.86	0.21	0.49	29.71	29.89	27.89	1.44	1.43	1.47	1.47	1.42
520	7.08	7.14	7.06	6.90	0.23	0.57	29.45	30.85	27.69	1.55	1.46	1.51	1.50	1.45
525	7.10	7.16	7.08	6.92	0.24	0.59	29.31	31.12	27.60	1.58	1.47	1.52	1.51	1.46
550	7.21	7.28	7.19	7.00	0.27	0.70	28.22	32.72	26.87	1.75	1.52	1.58	1.57	1.51
575	7.35	7.43	7.33	7.13	0.30	0.80	26.70	34.58	25.78	1.95	1.58	1.64	1.64	1.57
600	7.52	7.62	7.51	7.30	0.32	0.93	25.06	36.17	24.51	2.20	1.64	1.72	1.71	1.64
625	7.75	7.85	7.72	7.49	0.36	1.02	23.45	36.10	23.19	2.49	1.72	1.81	1.80	1.71
650	8.01	8.13	7.99	7.73	0.39	1.24	21.97	34.13	21.89	2.82	1.81	1.90	1.89	1.80
675	8.31	8.45	8.29	8.01	0.44	1.35	20.64	31.67	20.69	3.21	1.90	2.00	1.99	1.90
700	8.65	8.81	8.64	8.34	0.47	1.55	19.45	29.47	19.60	3.65	1.99	2.10	2.09	1.99
725	9.02	9.21	9.01	8.69	0.52	1.66	18.40	27.65	18.61	4.14	2.08	2.21	2.20	2.09
750	9.43	9.63	9.41	9.07	0.57	1.77	17.46	26.13	17.69	4.67	2.18	2.32	2.31	2.20

¹Total Loss = Insertion Loss + 6dB Splitter Loss



4 Way-0° Power Splitter/Combiner

JS4PS-1

Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS ¹ (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
3	9.36	9.36	9.36	8.95	0.41	2.77	32.59	23.55	29.67	5.90	8.37	8.47	8.82	8.87
4	8.49	8.49	8.49	8.18	0.31	2.62	34.58	23.53	31.35	4.09	5.46	5.50	5.71	5.74
5	7.62	7.61	7.62	7.40	0.22	2.48	36.57	23.51	33.02	3.16	4.08	4.10	4.25	4.27
6	7.18	7.18	7.18	7.02	0.16	2.31	35.15	23.94	32.81	2.65	3.29	3.31	3.41	3.42
7	6.93	6.92	6.93	6.81	0.13	2.13	32.29	24.55	31.78	2.31	2.78	2.79	2.86	2.87
8	6.71	6.70	6.71	6.62	0.09	1.97	29.75	25.20	30.67	2.07	2.44	2.44	2.49	2.50
9	6.62	6.61	6.62	6.55	0.07	1.84	28.48	25.96	29.21	1.91	2.21	2.21	2.25	2.26
10	6.53	6.52	6.53	6.49	0.04	1.72	27.20	26.72	27.75	1.78	2.03	2.03	2.06	2.06
25	6.52	6.52	6.52	6.53	0.01	0.51	26.20	36.11	25.99	1.28	1.40	1.39	1.40	1.40
50	6.51	6.52	6.52	6.51	0.01	0.35	26.89	38.85	26.66	1.21	1.29	1.28	1.29	1.29
75	6.53	6.53	6.54	6.53	0.01	0.36	27.61	36.69	27.43	1.20	1.26	1.26	1.26	1.26
80	6.54	6.54	6.55	6.54	0.01	0.33	27.71	36.24	27.54	1.20	1.25	1.26	1.26	1.26
100	6.55	6.56	6.56	6.55	0.01	0.34	27.89	34.68	27.74	1.21	1.24	1.25	1.25	1.25
125	6.58	6.57	6.58	6.57	0.01	0.31	27.85	33.06	27.72	1.22	1.24	1.25	1.25	1.25
150	6.59	6.59	6.59	6.58	0.01	0.34	27.69	31.74	27.54	1.24	1.24	1.24	1.25	1.25
175	6.62	6.62	6.61	6.60	0.02	0.38	27.50	30.68	27.32	1.25	1.25	1.25	1.25	1.25
200	6.64	6.64	6.64	6.61	0.03	0.40	27.32	29.80	27.12	1.26	1.26	1.26	1.26	1.25
225	6.66	6.66	6.65	6.63	0.03	0.45	27.19	29.10	26.94	1.25	1.26	1.27	1.27	1.26
250	6.67	6.67	6.65	6.63	0.04	0.46	27.09	28.53	26.80	1.24	1.27	1.27	1.28	1.27
275	6.69	6.68	6.67	6.63	0.05	0.51	27.09	28.10	26.73	1.23	1.27	1.28	1.28	1.27
300	6.69	6.69	6.67	6.62	0.07	0.59	27.18	27.77	26.73	1.21	1.28	1.28	1.29	1.28
325	6.70	6.70	6.68	6.63	0.07	0.64	27.36	27.57	26.81	1.18	1.29	1.29	1.29	1.28
350	6.70	6.70	6.68	6.62	0.09	0.71	27.65	27.49	26.96	1.14	1.29	1.30	1.30	1.29
375	6.70	6.71	6.68	6.61	0.11	0.80	28.03	27.52	27.19	1.12	1.30	1.32	1.31	1.30
400	6.71	6.72	6.68	6.60	0.12	0.81	28.52	27.69	27.46	1.11	1.31	1.33	1.33	1.31
425	6.72	6.74	6.69	6.59	0.14	0.87	29.04	27.98	27.73	1.13	1.32	1.35	1.35	1.32
450	6.74	6.76	6.71	6.60	0.15	0.88	29.50	28.50	27.93	1.19	1.34	1.37	1.37	1.33
475	6.77	6.80	6.74	6.62	0.17	1.00	29.67	29.20	27.95	1.28	1.37	1.40	1.40	1.36
500	6.83	6.86	6.79	6.65	0.21	1.05	29.31	30.16	27.66	1.39	1.40	1.44	1.44	1.39
520	6.89	6.93	6.85	6.70	0.23	1.10	28.62	31.16	27.14	1.50	1.43	1.49	1.48	1.42
525	6.90	6.95	6.87	6.71	0.24	1.10	28.40	31.45	26.99	1.53	1.44	1.50	1.49	1.43
550	7.01	7.07	6.97	6.80	0.27	1.18	27.01	33.08	25.98	1.71	1.49	1.56	1.55	1.49
575	7.16	7.22	7.11	6.92	0.30	1.19	25.45	35.00	24.76	1.91	1.55	1.63	1.62	1.55
600	7.33	7.41	7.29	7.08	0.32	1.28	23.87	36.44	23.46	2.16	1.62	1.70	1.69	1.62
625	7.55	7.63	7.50	7.27	0.36	1.36	22.38	36.00	22.18	2.45	1.70	1.79	1.78	1.70
650	7.81	7.91	7.77	7.52	0.40	1.49	21.02	33.79	20.95	2.79	1.79	1.88	1.88	1.79
675	8.10	8.23	8.07	7.80	0.44	1.61	19.80	31.32	19.83	3.19	1.88	1.99	1.98	1.89
700	8.45	8.60	8.42	8.11	0.48	1.78	18.71	29.13	18.81	3.65	1.97	2.09	2.09	1.98
725	8.83	8.99	8.78	8.46	0.53	1.92	17.72	27.36	17.86	4.16	2.07	2.20	2.20	2.09
750	9.22	9.41	9.18	8.84	0.57	2.08	16.85	25.87	17.02	4.73	2.17	2.30	2.31	2.20

¹Total Loss = Insertion Loss + 6dB Splitter Loss

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4 Way-0° Power Splitter/Combiner

JS4PS-1

Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS ¹ (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
3	7.09	7.05	7.06	7.05	0.05	0.89	15.67	31.98	16.62	1.60	2.47	2.47	2.36	2.36
4	7.03	7.00	7.01	7.00	0.03	0.68	16.98	32.78	17.79	1.49	2.16	2.16	2.09	2.09
5	6.97	6.95	6.95	6.95	0.02	0.48	18.29	33.58	18.96	1.40	1.93	1.93	1.89	1.88
6	6.93	6.92	6.92	6.91	0.01	0.39	19.15	34.14	19.72	1.35	1.81	1.81	1.78	1.78
7	6.90	6.90	6.90	6.89	0.01	0.34	19.82	34.61	20.30	1.32	1.73	1.73	1.71	1.71
8	6.88	6.87	6.88	6.87	0.01	0.30	20.43	35.03	20.84	1.30	1.67	1.67	1.65	1.65
9	6.86	6.85	6.86	6.85	0.01	0.27	20.82	35.29	21.17	1.28	1.63	1.63	1.61	1.61
10	6.84	6.83	6.84	6.83	0.01	0.25	21.21	35.55	21.51	1.26	1.59	1.59	1.58	1.58
25	6.76	6.77	6.77	6.76	0.01	0.15	23.92	37.24	24.01	1.19	1.41	1.41	1.41	1.41
50	6.76	6.78	6.78	6.76	0.02	0.11	25.70	36.30	25.72	1.18	1.35	1.35	1.35	1.35
75	6.78	6.80	6.81	6.78	0.03	0.11	26.36	34.65	26.33	1.18	1.33	1.33	1.33	1.34
80	6.79	6.80	6.81	6.78	0.03	0.07	26.40	34.31	26.37	1.19	1.33	1.33	1.33	1.33
100	6.81	6.82	6.83	6.80	0.03	0.12	26.44	33.09	26.36	1.19	1.33	1.32	1.32	1.33
125	6.85	6.85	6.87	6.83	0.04	0.07	26.24	31.80	26.17	1.21	1.33	1.32	1.32	1.32
150	6.87	6.88	6.89	6.85	0.04	0.13	25.97	30.71	25.87	1.21	1.33	1.33	1.33	1.33
175	6.90	6.91	6.92	6.87	0.05	0.08	25.66	29.78	25.57	1.22	1.34	1.34	1.34	1.33
200	6.93	6.94	6.94	6.90	0.05	0.10	25.40	29.03	25.28	1.22	1.34	1.34	1.35	1.34
225	6.96	6.97	6.97	6.92	0.05	0.09	25.18	28.42	25.04	1.21	1.35	1.35	1.35	1.34
250	6.98	6.98	6.99	6.92	0.06	0.05	25.00	27.91	24.84	1.21	1.35	1.35	1.36	1.35
275	7.00	7.01	7.01	6.94	0.07	0.10	24.92	27.53	24.73	1.20	1.36	1.36	1.37	1.35
300	7.01	7.03	7.02	6.95	0.08	0.06	24.90	27.23	24.68	1.18	1.36	1.37	1.37	1.36
325	7.03	7.05	7.04	6.96	0.09	0.13	24.98	27.06	24.71	1.17	1.37	1.38	1.38	1.36
350	7.04	7.06	7.05	6.96	0.10	0.16	25.16	26.97	24.81	1.15	1.37	1.39	1.39	1.37
375	7.05	7.07	7.06	6.95	0.12	0.21	25.45	27.01	25.02	1.15	1.38	1.40	1.40	1.37
400	7.07	7.09	7.07	6.95	0.14	0.25	25.86	27.16	25.30	1.17	1.39	1.41	1.41	1.38
425	7.09	7.12	7.09	6.97	0.16	0.36	26.41	27.45	25.68	1.21	1.40	1.43	1.43	1.39
450	7.11	7.15	7.12	6.97	0.17	0.41	27.08	27.91	26.14	1.28	1.42	1.45	1.45	1.41
475	7.15	7.19	7.15	7.00	0.19	0.48	27.86	28.54	26.65	1.37	1.44	1.48	1.47	1.43
500	7.21	7.26	7.21	7.04	0.22	0.59	28.61	29.39	27.12	1.48	1.47	1.51	1.51	1.46
520	7.28	7.33	7.27	7.09	0.24	0.65	29.06	30.31	27.37	1.59	1.50	1.55	1.54	1.49
525	7.29	7.35	7.29	7.10	0.25	0.66	29.11	30.55	27.41	1.62	1.51	1.56	1.55	1.49
550	7.41	7.47	7.40	7.19	0.27	0.77	29.01	32.01	27.33	1.80	1.55	1.61	1.60	1.54
575	7.55	7.62	7.54	7.32	0.30	0.87	28.14	33.73	26.78	2.00	1.61	1.67	1.67	1.60
600	7.73	7.81	7.72	7.48	0.33	1.02	26.71	35.30	25.81	2.24	1.68	1.75	1.74	1.66
625	7.95	8.05	7.94	7.68	0.37	1.08	25.09	35.64	24.59	2.53	1.75	1.83	1.82	1.74
650	8.21	8.32	8.21	7.92	0.40	1.28	23.48	34.12	23.27	2.86	1.83	1.92	1.91	1.82
675	8.52	8.65	8.51	8.21	0.43	1.43	22.01	31.87	22.01	3.24	1.92	2.02	2.01	1.92
700	8.86	9.00	8.85	8.54	0.47	1.63	20.67	29.70	20.82	3.66	2.02	2.12	2.11	2.01
725	9.24	9.40	9.23	8.89	0.51	1.72	19.51	27.85	19.72	4.13	2.11	2.23	2.22	2.11
750	9.65	9.83	9.64	9.27	0.56	1.82	18.47	26.34	18.73	4.63	2.21	2.33	2.32	2.21

¹Total Loss = Insertion Loss + 6dB Splitter Loss

