

3 Way-0° Power Splitter/Combiner

JPS-3-1W+

Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS ¹			AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION			VSWR			
	S-1	S-2	S-3			1-2	1-3	2-3	S	1	2	3
10	5.75	5.79	5.81	0.06	0.28	21.43	21.70	21.05	2.40	1.77	1.73	1.77
20	5.17	5.20	5.22	0.05	0.35	22.71	22.46	22.37	1.64	1.40	1.39	1.41
30	5.05	5.08	5.10	0.05	0.38	23.19	22.82	22.83	1.45	1.29	1.29	1.30
40	5.01	5.04	5.07	0.06	0.43	23.45	23.05	23.05	1.37	1.24	1.24	1.25
50	5.00	5.04	5.06	0.05	0.47	23.61	23.21	23.16	1.33	1.21	1.20	1.22
60	5.00	5.04	5.05	0.05	0.54	23.71	23.32	23.21	1.31	1.19	1.18	1.20
70	5.00	5.05	5.06	0.06	0.61	23.78	23.40	23.21	1.29	1.17	1.17	1.18
80	5.01	5.05	5.07	0.06	0.65	23.83	23.47	23.20	1.28	1.16	1.16	1.17
90	5.02	5.06	5.08	0.06	0.71	23.84	23.50	23.14	1.27	1.15	1.15	1.16
100	5.03	5.06	5.08	0.05	0.75	23.83	23.50	23.04	1.27	1.15	1.14	1.15
125	5.04	5.08	5.11	0.06	0.93	23.73	23.45	22.77	1.27	1.13	1.13	1.14
150	5.06	5.11	5.13	0.06	1.02	23.66	23.41	22.50	1.27	1.13	1.12	1.13
175	5.08	5.13	5.15	0.07	1.13	23.54	23.34	22.21	1.28	1.12	1.11	1.12
200	5.10	5.15	5.17	0.07	1.23	23.44	23.26	21.91	1.28	1.12	1.11	1.11
225	5.13	5.17	5.19	0.07	1.26	23.37	23.21	21.66	1.29	1.12	1.10	1.10
250	5.14	5.18	5.21	0.07	1.35	23.33	23.20	21.42	1.30	1.12	1.10	1.10
275	5.17	5.21	5.23	0.07	1.43	23.28	23.15	21.18	1.31	1.12	1.10	1.10
300	5.18	5.22	5.24	0.06	1.49	23.22	23.09	20.95	1.31	1.11	1.09	1.09
325	5.21	5.24	5.27	0.06	1.54	23.22	23.07	20.74	1.32	1.11	1.09	1.09
350	5.23	5.25	5.28	0.05	1.59	23.22	23.05	20.55	1.33	1.11	1.09	1.08
375	5.25	5.27	5.30	0.05	1.66	23.27	23.06	20.38	1.33	1.11	1.09	1.08
400	5.27	5.28	5.31	0.03	1.72	23.32	23.09	20.24	1.33	1.11	1.08	1.08
425	5.30	5.30	5.32	0.03	1.73	23.41	23.13	20.11	1.33	1.11	1.08	1.07
450	5.32	5.32	5.34	0.02	1.77	23.53	23.18	20.00	1.33	1.11	1.07	1.07
475	5.34	5.33	5.35	0.02	1.79	23.69	23.27	19.92	1.33	1.11	1.07	1.07
500	5.37	5.34	5.36	0.03	1.81	23.91	23.38	19.88	1.33	1.10	1.07	1.06
525	5.39	5.36	5.37	0.03	1.79	24.19	23.55	19.86	1.32	1.10	1.06	1.06
550	5.41	5.37	5.37	0.04	1.79	24.54	23.76	19.88	1.31	1.10	1.05	1.06
575	5.44	5.39	5.38	0.06	1.78	24.97	24.02	19.92	1.30	1.09	1.05	1.06
600	5.47	5.40	5.39	0.08	1.74	25.52	24.34	20.00	1.28	1.09	1.04	1.05
625	5.50	5.42	5.40	0.10	1.70	26.23	24.75	20.13	1.26	1.08	1.03	1.05
650	5.53	5.43	5.40	0.13	1.67	27.12	25.27	20.30	1.24	1.08	1.02	1.05
675	5.57	5.45	5.41	0.16	1.61	28.25	25.89	20.52	1.21	1.07	1.02	1.05
700	5.61	5.47	5.42	0.19	1.52	29.79	26.69	20.77	1.18	1.07	1.01	1.05
725	5.65	5.50	5.43	0.22	1.74	31.96	27.68	21.06	1.15	1.07	1.01	1.05
750	5.70	5.53	5.45	0.25	2.04	35.37	28.98	21.38	1.12	1.07	1.03	1.05
775	5.76	5.58	5.47	0.29	2.31	41.98	30.73	21.71	1.08	1.08	1.04	1.05
800	5.84	5.63	5.51	0.33	2.67	46.78	33.08	22.01	1.07	1.09	1.06	1.06
825	5.93	5.71	5.56	0.37	3.14	36.13	36.12	22.19	1.09	1.10	1.08	1.06
850	6.05	5.81	5.62	0.43	3.53	30.78	37.74	22.16	1.14	1.12	1.10	1.07
875	6.20	5.94	5.72	0.49	4.11	27.16	34.84	21.82	1.22	1.15	1.12	1.08
900	6.39	6.10	5.84	0.55	4.72	24.37	30.86	21.13	1.32	1.18	1.15	1.09
925	6.64	6.33	6.02	0.62	5.49	22.08	27.61	20.13	1.44	1.22	1.18	1.10
950	6.94	6.60	6.24	0.70	6.35	20.13	24.96	18.94	1.59	1.26	1.22	1.11
975	7.33	6.97	6.54	0.79	7.63	18.44	22.76	17.66	1.77	1.31	1.25	1.12
1000	7.82	7.44	6.91	0.91	9.14	16.96	20.92	16.38	2.00	1.36	1.29	1.13
1025	8.43	8.03	7.38	1.05	10.94	15.68	19.36	15.15	2.26	1.42	1.33	1.14
1050	9.19	8.76	7.96	1.23	13.09	14.58	18.03	14.04	2.58	1.48	1.37	1.15
1075	10.12	9.67	8.66	1.46	15.64	13.63	16.91	13.04	2.95	1.53	1.41	1.16
1100	11.24	10.76	9.47	1.77	18.66	12.84	15.98	12.17	3.36	1.59	1.45	1.16

¹Total Loss = Insertion Loss + 4.8dB Splitter Loss

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3 Way-0° Power Splitter/Combiner

JPS-3-1W+

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			1-2	1-3	2-3	S	1	2	3
10	5.79	5.82	5.84	0.05	0.24	23.67	24.47	23.05	2.42	1.87	1.81	1.86
20	5.19	5.21	5.23	0.04	0.40	23.90	23.75	23.43	1.64	1.41	1.38	1.40
30	5.06	5.08	5.10	0.04	0.49	24.15	23.79	23.69	1.45	1.28	1.27	1.28
40	5.02	5.04	5.06	0.04	0.63	24.34	23.93	23.86	1.37	1.23	1.22	1.23
50	5.01	5.03	5.05	0.04	0.71	24.49	24.07	23.97	1.34	1.19	1.19	1.20
60	5.00	5.03	5.05	0.05	0.78	24.62	24.20	24.03	1.31	1.17	1.18	1.19
70	5.00	5.04	5.05	0.05	0.89	24.73	24.31	24.06	1.30	1.16	1.17	1.18
80	5.00	5.04	5.06	0.05	0.95	24.81	24.41	24.07	1.29	1.14	1.16	1.17
90	5.01	5.04	5.06	0.05	1.03	24.86	24.48	24.03	1.28	1.14	1.15	1.16
100	5.01	5.05	5.06	0.05	1.09	24.86	24.50	23.93	1.27	1.13	1.14	1.15
125	5.03	5.06	5.08	0.05	1.31	24.75	24.44	23.57	1.27	1.12	1.12	1.13
150	5.05	5.08	5.10	0.04	1.54	24.59	24.33	23.18	1.28	1.12	1.11	1.12
175	5.08	5.11	5.12	0.04	1.77	24.34	24.13	22.73	1.30	1.13	1.12	1.12
200	5.09	5.13	5.14	0.04	1.96	24.08	23.90	22.27	1.31	1.13	1.12	1.12
225	5.12	5.14	5.16	0.04	2.08	23.87	23.69	21.88	1.32	1.13	1.10	1.11
250	5.14	5.15	5.17	0.03	2.29	23.73	23.56	21.56	1.33	1.13	1.10	1.10
275	5.16	5.17	5.19	0.02	2.52	23.62	23.45	21.28	1.34	1.13	1.10	1.10
300	5.18	5.18	5.19	0.02	2.69	23.53	23.35	21.03	1.34	1.12	1.10	1.10
325	5.20	5.19	5.21	0.02	2.85	23.53	23.32	20.82	1.34	1.12	1.09	1.09
350	5.21	5.20	5.21	0.02	3.02	23.54	23.31	20.63	1.35	1.12	1.09	1.09
375	5.23	5.21	5.23	0.02	3.21	23.60	23.32	20.47	1.35	1.11	1.09	1.09
400	5.25	5.22	5.23	0.03	3.37	23.66	23.35	20.32	1.35	1.11	1.09	1.09
425	5.27	5.23	5.24	0.04	3.49	23.75	23.39	20.17	1.35	1.11	1.08	1.08
450	5.29	5.24	5.25	0.05	3.66	23.86	23.43	20.04	1.34	1.11	1.08	1.07
475	5.31	5.25	5.26	0.06	3.78	24.02	23.51	19.95	1.34	1.11	1.07	1.07
500	5.33	5.26	5.26	0.07	3.91	24.25	23.65	19.91	1.33	1.11	1.06	1.07
525	5.35	5.26	5.26	0.09	4.05	24.56	23.83	19.90	1.32	1.10	1.06	1.06
550	5.37	5.27	5.27	0.10	4.15	24.97	24.10	19.94	1.31	1.10	1.05	1.06
575	5.39	5.28	5.27	0.12	4.27	25.49	24.42	20.00	1.30	1.09	1.05	1.06
600	5.41	5.29	5.27	0.14	4.35	26.13	24.81	20.09	1.27	1.09	1.04	1.05
625	5.44	5.30	5.28	0.17	4.44	26.94	25.30	20.21	1.25	1.08	1.02	1.05
650	5.47	5.31	5.28	0.19	4.53	27.94	25.89	20.36	1.23	1.07	1.02	1.05
675	5.50	5.32	5.29	0.21	4.58	29.21	26.61	20.54	1.21	1.07	1.01	1.05
700	5.53	5.34	5.29	0.25	4.62	30.94	27.48	20.76	1.18	1.07	1.01	1.04
725	5.57	5.36	5.30	0.27	4.63	33.44	28.55	21.01	1.15	1.06	1.02	1.05
750	5.62	5.39	5.32	0.31	4.69	37.66	29.96	21.29	1.12	1.06	1.03	1.05
775	5.68	5.43	5.33	0.35	4.68	47.98	31.87	21.59	1.09	1.07	1.04	1.06
800	5.75	5.47	5.37	0.38	4.67	42.21	34.40	21.85	1.07	1.08	1.06	1.06
825	5.84	5.54	5.41	0.43	4.69	34.07	36.95	21.96	1.09	1.10	1.08	1.06
850	5.95	5.63	5.47	0.47	4.63	29.45	36.29	21.85	1.15	1.12	1.10	1.07
875	6.09	5.75	5.57	0.52	4.58	26.16	32.67	21.42	1.23	1.15	1.13	1.07
900	6.27	5.92	5.69	0.58	4.49	23.56	29.12	20.64	1.33	1.18	1.16	1.08
925	6.51	6.13	5.86	0.65	5.24	21.41	26.28	19.59	1.46	1.22	1.20	1.09
950	6.81	6.39	6.09	0.72	6.09	19.55	23.89	18.38	1.61	1.26	1.23	1.11
975	7.19	6.76	6.38	0.81	7.12	17.92	21.86	17.10	1.80	1.31	1.27	1.12
1000	7.68	7.22	6.76	0.91	8.40	16.49	20.16	15.84	2.04	1.36	1.31	1.13
1025	8.29	7.80	7.25	1.05	9.90	15.24	18.68	14.63	2.33	1.43	1.35	1.15
1050	9.06	8.53	7.85	1.21	11.76	14.16	17.41	13.52	2.68	1.49	1.40	1.16
1075	9.99	9.44	8.57	1.42	14.00	13.23	16.35	12.54	3.09	1.55	1.44	1.17
1100	11.13	10.54	9.42	1.70	16.78	12.46	15.46	11.69	3.56	1.62	1.48	1.17

¹Total Loss = Insertion Loss + 4.8dB Splitter Loss

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Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS ¹			AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION			VSWR			
	S-1	S-2	S-3			1-2	1-3	2-3	S	1	2	3
10	5.73	5.78	5.80	0.07	0.24	20.80	20.84	20.51	2.39	1.80	1.77	1.81
20	5.16	5.21	5.23	0.07	0.26	21.85	21.53	21.62	1.64	1.43	1.43	1.46
30	5.04	5.09	5.11	0.08	0.24	22.24	21.85	21.99	1.45	1.32	1.33	1.35
40	5.00	5.06	5.08	0.08	0.27	22.43	22.03	22.15	1.37	1.27	1.28	1.30
50	4.99	5.05	5.07	0.08	0.24	22.52	22.14	22.20	1.32	1.24	1.25	1.27
60	5.00	5.05	5.07	0.07	0.21	22.57	22.20	22.19	1.30	1.22	1.22	1.24
70	5.00	5.05	5.08	0.07	0.22	22.58	22.23	22.15	1.28	1.21	1.20	1.22
80	5.01	5.06	5.08	0.07	0.23	22.58	22.26	22.10	1.27	1.20	1.18	1.20
90	5.02	5.06	5.09	0.07	0.27	22.57	22.27	22.03	1.27	1.19	1.17	1.18
100	5.04	5.08	5.10	0.07	0.32	22.54	22.26	21.94	1.27	1.19	1.16	1.17
125	5.05	5.10	5.13	0.08	0.39	22.44	22.22	21.72	1.28	1.17	1.16	1.16
150	5.07	5.13	5.15	0.09	0.38	22.41	22.23	21.56	1.27	1.16	1.16	1.16
175	5.08	5.14	5.18	0.10	0.33	22.38	22.25	21.41	1.26	1.15	1.14	1.15
200	5.10	5.16	5.20	0.10	0.31	22.39	22.30	21.26	1.26	1.14	1.12	1.12
225	5.13	5.19	5.23	0.10	0.25	22.45	22.39	21.16	1.27	1.14	1.12	1.11
250	5.14	5.20	5.25	0.11	0.21	22.55	22.50	21.07	1.27	1.13	1.12	1.11
275	5.15	5.23	5.27	0.12	0.11	22.61	22.57	20.95	1.27	1.12	1.12	1.11
300	5.18	5.24	5.28	0.11	0.02	22.63	22.60	20.79	1.27	1.12	1.11	1.10
325	5.21	5.27	5.31	0.10	0.10	22.70	22.65	20.65	1.28	1.12	1.10	1.09
350	5.23	5.29	5.33	0.10	0.21	22.75	22.67	20.49	1.29	1.12	1.10	1.08
375	5.25	5.31	5.35	0.10	0.37	22.81	22.69	20.36	1.30	1.12	1.10	1.08
400	5.28	5.33	5.37	0.09	0.51	22.88	22.72	20.24	1.31	1.11	1.09	1.08
425	5.31	5.35	5.38	0.08	0.70	22.98	22.74	20.12	1.31	1.11	1.08	1.07
450	5.34	5.37	5.40	0.06	0.86	23.09	22.78	20.02	1.31	1.11	1.08	1.06
475	5.37	5.40	5.42	0.05	1.06	23.26	22.85	19.96	1.31	1.11	1.08	1.06
500	5.40	5.41	5.43	0.03	1.29	23.46	22.93	19.93	1.31	1.11	1.07	1.06
525	5.42	5.43	5.44	0.02	1.49	23.73	23.07	19.92	1.30	1.10	1.07	1.05
550	5.45	5.45	5.45	0.01	1.76	24.05	23.25	19.95	1.30	1.10	1.06	1.05
575	5.49	5.47	5.47	0.02	2.02	24.45	23.46	20.00	1.29	1.09	1.05	1.05
600	5.52	5.49	5.48	0.05	2.31	24.96	23.72	20.09	1.27	1.09	1.05	1.05
625	5.56	5.52	5.49	0.07	2.64	25.59	24.07	20.22	1.26	1.09	1.04	1.05
650	5.59	5.53	5.49	0.10	2.96	26.37	24.49	20.39	1.24	1.08	1.03	1.05
675	5.64	5.56	5.51	0.13	3.34	27.34	25.00	20.61	1.21	1.08	1.03	1.05
700	5.68	5.59	5.52	0.17	3.77	28.62	25.63	20.88	1.19	1.07	1.02	1.05
725	5.73	5.62	5.53	0.20	4.20	30.37	26.41	21.18	1.16	1.07	1.01	1.05
750	5.79	5.66	5.55	0.24	4.73	32.90	27.42	21.55	1.12	1.07	1.02	1.06
775	5.86	5.71	5.58	0.28	5.29	37.03	28.75	21.94	1.09	1.08	1.03	1.06
800	5.94	5.77	5.61	0.33	5.89	44.48	30.53	22.35	1.06	1.09	1.04	1.06
825	6.04	5.85	5.66	0.37	6.52	39.94	32.90	22.67	1.07	1.10	1.06	1.07
850	6.16	5.96	5.73	0.44	7.30	33.06	35.74	22.82	1.12	1.12	1.08	1.07
875	6.32	6.10	5.82	0.50	8.11	28.75	36.71	22.67	1.20	1.15	1.10	1.08
900	6.51	6.27	5.95	0.57	9.09	25.57	33.60	22.12	1.29	1.18	1.13	1.08
925	6.77	6.50	6.12	0.65	10.16	23.05	29.87	21.17	1.41	1.22	1.16	1.09
950	7.08	6.79	6.34	0.74	11.31	20.95	26.75	19.95	1.56	1.26	1.20	1.10
975	7.47	7.17	6.63	0.84	12.68	19.15	24.22	18.59	1.74	1.30	1.23	1.11
1000	7.96	7.64	7.00	0.97	14.26	17.60	22.15	17.24	1.96	1.36	1.27	1.12
1025	8.58	8.24	7.46	1.12	16.08	16.26	20.41	15.94	2.22	1.41	1.31	1.14
1050	9.34	8.97	8.03	1.31	18.21	15.11	18.95	14.76	2.53	1.47	1.35	1.15
1075	10.25	9.86	8.71	1.54	20.76	14.12	17.73	13.71	2.88	1.53	1.39	1.16
1100	11.35	10.94	9.50	1.85	23.68	13.31	16.72	12.80	3.27	1.58	1.43	1.17

¹Total Loss = Insertion Loss + 3dB Splitter Loss

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