

3 Way-0° Power Splitter/Combiner

JPS-3-1

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			1-2	1-3	2-3	S	1	2	3
5	4.89	4.99	4.94	0.10	0.24	38.62	33.13	33.95	1.06	1.08	1.11	1.11
6	4.89	4.99	4.94	0.10	0.18	38.82	33.41	34.09	1.05	1.08	1.10	1.11
7	4.89	4.99	4.94	0.10	0.15	38.94	33.61	34.20	1.05	1.07	1.10	1.10
8	4.89	4.99	4.94	0.10	0.13	38.99	33.76	34.27	1.05	1.07	1.09	1.10
9	4.90	5.00	4.95	0.10	0.10	38.94	33.89	34.31	1.05	1.07	1.09	1.10
10	4.91	5.01	4.97	0.10	0.08	38.90	33.96	34.33	1.05	1.07	1.09	1.10
15	4.92	5.02	4.97	0.10	0.03	38.66	33.99	34.15	1.04	1.06	1.09	1.10
20	4.92	5.01	4.97	0.10	0.03	38.20	33.78	33.79	1.04	1.06	1.09	1.10
25	4.92	5.02	4.98	0.10	0.03	37.65	33.51	33.39	1.04	1.06	1.09	1.09
30	4.92	5.03	4.98	0.10	0.05	37.11	33.20	32.98	1.03	1.06	1.09	1.09
35	4.94	5.04	4.99	0.10	0.07	36.53	32.90	32.57	1.03	1.06	1.09	1.09
40	4.95	5.05	5.00	0.10	0.05	36.08	32.63	32.19	1.03	1.06	1.09	1.09
45	4.96	5.06	5.00	0.10	0.08	35.68	32.38	31.87	1.03	1.06	1.09	1.09
50	4.96	5.06	5.00	0.10	0.08	35.35	32.19	31.59	1.03	1.06	1.09	1.09
60	4.98	5.08	5.02	0.10	0.11	34.80	31.85	31.07	1.03	1.06	1.08	1.09
70	5.00	5.09	5.04	0.09	0.13	34.40	31.57	30.62	1.03	1.06	1.08	1.09
80	5.01	5.11	5.05	0.10	0.12	34.09	31.32	30.19	1.03	1.06	1.08	1.08
90	5.03	5.12	5.06	0.09	0.16	33.72	31.02	29.75	1.03	1.06	1.08	1.08
100	5.04	5.13	5.07	0.08	0.16	33.31	30.76	29.36	1.03	1.05	1.07	1.08
110	5.06	5.14	5.09	0.08	0.18	33.07	30.56	29.05	1.02	1.05	1.07	1.08
120	5.08	5.16	5.09	0.08	0.21	32.96	30.45	28.80	1.02	1.05	1.07	1.08
130	5.10	5.17	5.10	0.07	0.19	32.93	30.38	28.58	1.02	1.04	1.07	1.08
140	5.11	5.18	5.11	0.07	0.21	32.89	30.32	28.40	1.02	1.04	1.07	1.07
150	5.13	5.19	5.12	0.06	0.22	32.87	30.27	28.23	1.02	1.04	1.07	1.07
160	5.14	5.20	5.13	0.07	0.23	32.95	30.27	28.12	1.01	1.04	1.07	1.07
170	5.16	5.21	5.14	0.07	0.21	33.17	30.35	28.02	1.01	1.04	1.07	1.07
180	5.18	5.22	5.15	0.07	0.22	33.43	30.48	27.97	1.02	1.03	1.07	1.07
190	5.20	5.24	5.17	0.07	0.28	33.69	30.63	27.92	1.02	1.03	1.07	1.07
200	5.21	5.25	5.17	0.08	0.25	34.01	30.77	27.90	1.03	1.03	1.07	1.07
210	5.23	5.26	5.18	0.08	0.26	34.49	31.01	27.97	1.03	1.03	1.07	1.07
220	5.26	5.28	5.19	0.08	0.27	35.20	31.33	28.07	1.04	1.03	1.07	1.08
230	5.28	5.29	5.20	0.09	0.29	36.02	31.75	28.18	1.05	1.03	1.08	1.08
240	5.29	5.30	5.21	0.09	0.35	37.08	32.22	28.31	1.06	1.03	1.08	1.09
250	5.31	5.32	5.22	0.09	0.38	38.36	32.76	28.46	1.07	1.03	1.09	1.09
260	5.34	5.34	5.24	0.10	0.39	40.13	33.43	28.68	1.09	1.04	1.09	1.09
270	5.37	5.36	5.25	0.12	0.41	42.61	34.27	28.93	1.10	1.04	1.10	1.10
280	5.39	5.38	5.26	0.13	0.40	45.91	35.30	29.18	1.12	1.05	1.10	1.11
290	5.42	5.40	5.28	0.14	0.42	47.64	36.54	29.40	1.14	1.05	1.11	1.12
300	5.46	5.42	5.30	0.16	0.47	44.98	37.80	29.56	1.16	1.06	1.11	1.12
310	5.49	5.45	5.32	0.17	0.52	41.31	38.95	29.68	1.18	1.07	1.12	1.13
320	5.53	5.49	5.35	0.18	0.57	38.01	39.58	29.73	1.20	1.07	1.13	1.14
330	5.57	5.52	5.38	0.19	0.69	35.31	39.17	29.59	1.23	1.08	1.14	1.15
340	5.62	5.56	5.41	0.21	0.79	33.04	37.72	29.21	1.26	1.09	1.15	1.16
350	5.67	5.60	5.44	0.22	0.91	31.16	35.77	28.64	1.30	1.10	1.16	1.17
375	5.82	5.74	5.56	0.26	1.23	27.35	31.01	26.63	1.39	1.13	1.19	1.20
400	6.02	5.93	5.72	0.30	1.62	24.28	27.19	24.15	1.52	1.16	1.22	1.23
425	6.29	6.18	5.94	0.34	2.14	21.77	24.20	21.74	1.67	1.19	1.25	1.26
450	6.63	6.51	6.24	0.38	2.71	19.62	21.72	19.54	1.88	1.23	1.29	1.30
475	7.06	6.94	6.63	0.42	3.45	17.79	19.65	17.60	2.12	1.27	1.32	1.33
500	7.59	7.48	7.13	0.46	4.40	16.22	17.91	15.91	2.41	1.31	1.36	1.37
525	8.25	8.15	7.75	0.50	5.45	14.91	16.46	14.48	2.76	1.36	1.39	1.39
550	9.04	8.95	8.50	0.54	6.80	13.81	15.25	13.27	3.16	1.39	1.42	1.42

¹Total Loss = Insertion Loss + 4.8dB Splitter Loss

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3 Way-0° Power Splitter/Combiner

JPS-3-1

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			1-2	1-3	2-3	S	1	2	3
5	4.91	5.03	4.97	0.12	0.65	35.95	30.21	31.34	1.07	1.13	1.16	1.17
6	4.90	5.01	4.95	0.11	0.56	36.59	30.97	31.98	1.07	1.12	1.14	1.16
7	4.89	4.99	4.94	0.10	0.50	37.14	31.62	32.51	1.06	1.10	1.13	1.14
8	4.89	4.98	4.94	0.09	0.46	37.59	32.20	32.97	1.06	1.10	1.12	1.13
9	4.89	4.98	4.94	0.09	0.41	37.91	32.71	33.37	1.05	1.09	1.11	1.12
10	4.90	4.99	4.95	0.09	0.35	38.16	33.11	33.67	1.05	1.08	1.11	1.11
15	4.90	4.98	4.94	0.08	0.18	38.92	34.22	34.42	1.04	1.07	1.09	1.09
20	4.90	4.97	4.93	0.07	0.11	38.97	34.56	34.51	1.04	1.06	1.08	1.08
25	4.90	4.97	4.93	0.07	0.06	38.78	34.57	34.36	1.04	1.06	1.07	1.08
30	4.90	4.98	4.94	0.07	0.10	38.45	34.48	34.11	1.04	1.06	1.07	1.07
35	4.91	4.98	4.94	0.07	0.14	38.02	34.32	33.82	1.04	1.05	1.06	1.07
40	4.92	4.99	4.95	0.07	0.16	37.66	34.14	33.51	1.03	1.05	1.06	1.06
45	4.92	4.99	4.95	0.07	0.20	37.38	33.98	33.25	1.03	1.05	1.06	1.06
50	4.93	4.99	4.96	0.06	0.25	37.09	33.86	33.02	1.03	1.05	1.05	1.06
60	4.95	5.01	4.97	0.06	0.31	36.66	33.64	32.53	1.03	1.04	1.05	1.06
70	4.96	5.02	4.98	0.06	0.40	36.33	33.45	32.06	1.03	1.04	1.06	1.06
80	4.97	5.03	4.99	0.06	0.43	36.02	33.26	31.60	1.03	1.04	1.06	1.06
90	4.98	5.04	5.00	0.06	0.49	35.60	32.95	31.06	1.03	1.04	1.07	1.07
100	5.00	5.05	5.01	0.05	0.57	35.07	32.67	30.56	1.03	1.03	1.07	1.07
110	5.01	5.06	5.02	0.05	0.65	34.70	32.41	30.12	1.02	1.03	1.07	1.07
120	5.03	5.07	5.02	0.05	0.70	34.43	32.20	29.73	1.02	1.03	1.06	1.06
130	5.04	5.08	5.03	0.05	0.75	34.25	32.02	29.37	1.03	1.03	1.06	1.06
140	5.06	5.09	5.04	0.05	0.83	34.03	31.84	29.05	1.03	1.03	1.05	1.05
150	5.07	5.10	5.05	0.05	0.89	33.86	31.70	28.75	1.04	1.03	1.05	1.05
160	5.09	5.11	5.06	0.05	0.95	33.78	31.59	28.51	1.04	1.03	1.05	1.05
170	5.10	5.12	5.06	0.05	1.00	33.84	31.54	28.30	1.04	1.03	1.05	1.05
180	5.12	5.13	5.07	0.06	1.05	33.92	31.56	28.14	1.04	1.03	1.05	1.05
190	5.14	5.14	5.08	0.06	1.07	34.05	31.59	28.01	1.04	1.03	1.05	1.05
200	5.15	5.15	5.08	0.07	1.16	34.26	31.65	27.93	1.04	1.02	1.05	1.06
210	5.16	5.16	5.09	0.07	1.20	34.66	31.83	27.95	1.04	1.02	1.06	1.06
220	5.18	5.17	5.10	0.08	1.23	35.30	32.10	28.02	1.04	1.02	1.06	1.06
230	5.20	5.18	5.11	0.09	1.27	36.08	32.48	28.13	1.04	1.02	1.06	1.06
240	5.21	5.19	5.11	0.10	1.35	37.16	32.95	28.28	1.04	1.02	1.06	1.06
250	5.23	5.20	5.12	0.11	1.34	38.53	33.53	28.45	1.05	1.02	1.06	1.07
260	5.25	5.22	5.13	0.12	1.38	40.45	34.24	28.70	1.06	1.02	1.07	1.07
270	5.28	5.23	5.14	0.14	1.40	43.28	35.16	29.01	1.07	1.02	1.07	1.07
280	5.30	5.25	5.15	0.15	1.42	47.44	36.28	29.32	1.09	1.03	1.08	1.08
290	5.32	5.26	5.16	0.16	1.44	49.67	37.60	29.59	1.11	1.04	1.09	1.09
300	5.35	5.29	5.18	0.17	1.48	45.26	38.93	29.83	1.13	1.04	1.10	1.10
310	5.38	5.31	5.20	0.18	1.49	40.93	39.90	29.98	1.16	1.05	1.10	1.11
320	5.42	5.34	5.22	0.20	1.47	37.51	39.89	30.03	1.18	1.06	1.11	1.12
330	5.46	5.37	5.25	0.21	1.47	34.82	38.72	29.84	1.21	1.07	1.13	1.13
340	5.50	5.41	5.27	0.23	1.45	32.60	36.84	29.39	1.25	1.08	1.14	1.14
350	5.54	5.44	5.30	0.24	1.42	30.75	34.79	28.74	1.28	1.09	1.15	1.15
375	5.68	5.57	5.41	0.27	1.32	27.04	30.25	26.55	1.38	1.12	1.18	1.18
400	5.87	5.75	5.56	0.31	1.18	24.03	26.64	24.00	1.51	1.15	1.21	1.22
425	6.11	5.98	5.77	0.34	0.93	21.57	23.78	21.59	1.67	1.19	1.25	1.26
450	6.44	6.29	6.05	0.38	1.02	19.44	21.36	19.38	1.88	1.23	1.29	1.30
475	6.84	6.70	6.43	0.42	1.24	17.62	19.33	17.42	2.13	1.27	1.33	1.33
500	7.37	7.24	6.92	0.45	1.76	16.06	17.61	15.72	2.46	1.32	1.37	1.37
525	8.01	7.89	7.53	0.48	2.67	14.73	16.17	14.27	2.84	1.37	1.40	1.41
550	8.79	8.69	8.27	0.51	3.83	13.63	14.97	13.04	3.30	1.41	1.44	1.43

¹Total Loss = Insertion Loss + 4.8dB Splitter Loss

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JPS-3-1

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			1-2	1-3	2-3	S	1	2	3
5	4.91	5.06	4.99	0.14	0.29	37.92	31.79	32.78	1.07	1.10	1.13	1.14
6	4.92	5.06	4.99	0.14	0.22	38.02	31.99	32.91	1.06	1.09	1.12	1.13
7	4.92	5.06	4.99	0.14	0.18	38.07	32.12	32.99	1.06	1.09	1.12	1.13
8	4.92	5.06	5.00	0.14	0.16	38.06	32.21	33.03	1.06	1.09	1.12	1.13
9	4.93	5.07	5.01	0.14	0.14	37.97	32.27	33.05	1.06	1.09	1.12	1.13
10	4.95	5.09	5.02	0.14	0.13	37.88	32.31	33.05	1.06	1.09	1.12	1.13
15	4.95	5.09	5.03	0.14	0.10	37.54	32.25	32.85	1.05	1.08	1.12	1.13
20	4.95	5.09	5.03	0.14	0.08	37.01	32.04	32.50	1.05	1.08	1.12	1.13
25	4.96	5.10	5.03	0.14	0.13	36.46	31.78	32.13	1.04	1.08	1.12	1.13
30	4.96	5.11	5.04	0.15	0.10	35.91	31.50	31.73	1.04	1.08	1.13	1.14
35	4.98	5.12	5.05	0.14	0.14	35.31	31.22	31.36	1.04	1.08	1.13	1.14
40	4.98	5.13	5.06	0.15	0.16	34.84	30.94	30.99	1.04	1.08	1.13	1.14
45	4.99	5.14	5.07	0.15	0.21	34.45	30.70	30.68	1.04	1.08	1.13	1.14
50	5.00	5.14	5.07	0.15	0.22	34.09	30.50	30.41	1.03	1.08	1.13	1.14
60	5.02	5.16	5.09	0.14	0.29	33.50	30.13	29.88	1.03	1.08	1.13	1.14
70	5.04	5.17	5.10	0.14	0.35	33.04	29.82	29.44	1.03	1.08	1.12	1.13
80	5.05	5.19	5.11	0.14	0.41	32.69	29.55	29.03	1.03	1.08	1.11	1.12
90	5.08	5.20	5.12	0.12	0.46	32.32	29.24	28.61	1.03	1.08	1.10	1.11
100	5.09	5.21	5.14	0.12	0.50	31.93	28.98	28.27	1.04	1.08	1.09	1.10
110	5.11	5.23	5.15	0.12	0.50	31.71	28.79	28.00	1.03	1.07	1.09	1.10
120	5.13	5.24	5.16	0.11	0.58	31.62	28.68	27.81	1.03	1.07	1.09	1.10
130	5.15	5.26	5.17	0.11	0.63	31.63	28.61	27.66	1.02	1.07	1.09	1.10
140	5.17	5.27	5.18	0.10	0.67	31.64	28.58	27.54	1.01	1.06	1.10	1.10
150	5.18	5.28	5.19	0.10	0.71	31.68	28.55	27.45	1.01	1.06	1.10	1.10
160	5.20	5.29	5.20	0.09	0.78	31.81	28.57	27.40	1.01	1.06	1.10	1.11
170	5.21	5.31	5.22	0.09	0.86	32.06	28.66	27.40	1.02	1.06	1.10	1.11
180	5.24	5.32	5.23	0.09	0.91	32.40	28.81	27.42	1.03	1.05	1.10	1.11
190	5.26	5.33	5.24	0.09	1.02	32.76	28.97	27.46	1.03	1.05	1.10	1.10
200	5.28	5.34	5.24	0.10	1.03	33.16	29.14	27.52	1.04	1.05	1.09	1.10
210	5.30	5.36	5.25	0.10	1.11	33.71	29.38	27.66	1.05	1.05	1.09	1.10
220	5.33	5.38	5.27	0.11	1.15	34.48	29.69	27.82	1.06	1.05	1.09	1.10
230	5.35	5.39	5.29	0.11	1.21	35.38	30.08	28.00	1.07	1.05	1.10	1.10
240	5.37	5.41	5.30	0.11	1.31	36.51	30.50	28.18	1.08	1.05	1.10	1.10
250	5.39	5.43	5.31	0.11	1.42	37.87	30.99	28.39	1.10	1.06	1.11	1.11
260	5.42	5.45	5.33	0.12	1.48	39.72	31.55	28.65	1.11	1.06	1.11	1.12
270	5.46	5.47	5.35	0.13	1.61	42.41	32.24	28.94	1.13	1.06	1.12	1.13
280	5.49	5.50	5.36	0.13	1.71	46.46	33.06	29.23	1.15	1.07	1.13	1.14
290	5.52	5.52	5.38	0.14	1.81	50.63	34.02	29.46	1.17	1.07	1.14	1.14
300	5.56	5.55	5.41	0.15	1.91	47.31	35.02	29.66	1.19	1.08	1.14	1.15
310	5.60	5.58	5.43	0.17	2.05	42.53	35.99	29.78	1.21	1.09	1.14	1.15
320	5.64	5.62	5.46	0.18	2.18	38.81	36.88	29.86	1.23	1.09	1.15	1.16
330	5.69	5.66	5.49	0.19	2.34	35.88	37.37	29.75	1.26	1.10	1.15	1.17
340	5.74	5.70	5.53	0.21	2.50	33.50	37.15	29.40	1.29	1.11	1.16	1.17
350	5.79	5.75	5.57	0.22	2.67	31.56	36.08	28.87	1.32	1.12	1.17	1.18
375	5.96	5.90	5.69	0.27	3.10	27.70	31.95	26.94	1.42	1.14	1.20	1.21
400	6.18	6.10	5.86	0.31	3.65	24.60	28.06	24.50	1.54	1.17	1.23	1.25
425	6.45	6.36	6.09	0.36	4.29	22.08	24.94	22.12	1.68	1.20	1.26	1.27
450	6.80	6.70	6.40	0.41	5.02	19.91	22.36	19.91	1.87	1.24	1.28	1.30
475	7.25	7.13	6.79	0.45	5.86	18.08	20.23	17.97	2.09	1.27	1.32	1.34
500	7.80	7.68	7.30	0.50	6.94	16.51	18.44	16.28	2.37	1.31	1.35	1.37
525	8.47	8.35	7.92	0.56	8.16	15.19	16.94	14.83	2.68	1.35	1.38	1.39
550	9.26	9.15	8.65	0.61	9.60	14.08	15.70	13.61	3.05	1.39	1.40	1.41

¹Total Loss = Insertion Loss + 4.8dB Splitter Loss

