

3 Way-0° Power Splitter/Combiner

LRPS-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
10	5.03	5.04	5.04	0.01	0.12	24.43	24.59	24.42	1.27	1.10	1.11	1.11
20	5.04	5.05	5.05	0.01	0.17	24.36	24.55	24.37	1.25	1.08	1.08	1.08
30	5.04	5.05	5.05	0.01	0.27	24.20	24.39	24.18	1.25	1.08	1.08	1.08
40	5.04	5.05	5.05	0.01	0.33	24.08	24.30	24.06	1.24	1.07	1.07	1.07
50	5.06	5.06	5.06	0.00	0.43	23.99	24.21	23.95	1.24	1.07	1.07	1.07
60	5.07	5.08	5.07	0.01	0.50	23.91	24.14	23.84	1.24	1.07	1.07	1.07
70	5.07	5.08	5.08	0.01	0.57	23.84	24.08	23.76	1.23	1.07	1.07	1.07
80	5.09	5.09	5.09	0.00	0.65	23.78	24.03	23.68	1.23	1.06	1.06	1.07
90	5.10	5.10	5.10	0.00	0.74	23.73	23.99	23.60	1.23	1.06	1.06	1.06
100	5.11	5.11	5.11	0.00	0.81	23.70	23.95	23.53	1.23	1.06	1.06	1.06
110	5.12	5.13	5.12	0.01	0.90	23.66	23.91	23.46	1.22	1.06	1.06	1.06
120	5.13	5.14	5.13	0.01	0.97	23.61	23.88	23.40	1.22	1.06	1.05	1.06
130	5.15	5.15	5.14	0.01	1.04	23.59	23.85	23.34	1.22	1.06	1.05	1.05
140	5.16	5.16	5.14	0.02	1.13	23.58	23.85	23.31	1.22	1.06	1.05	1.05
150	5.17	5.17	5.15	0.02	1.20	23.59	23.85	23.28	1.22	1.05	1.05	1.05
160	5.19	5.18	5.16	0.03	1.26	23.60	23.84	23.26	1.21	1.05	1.05	1.05
170	5.19	5.19	5.17	0.02	1.35	23.61	23.83	23.24	1.21	1.05	1.05	1.05
180	5.21	5.21	5.18	0.03	1.43	23.66	23.85	23.25	1.21	1.05	1.05	1.04
190	5.23	5.22	5.19	0.04	1.49	23.72	23.87	23.27	1.20	1.05	1.05	1.04
200	5.24	5.23	5.20	0.04	1.56	23.80	23.91	23.32	1.20	1.06	1.05	1.04
210	5.25	5.24	5.21	0.04	1.63	23.92	23.97	23.39	1.19	1.06	1.05	1.04
220	5.27	5.26	5.22	0.05	1.68	24.04	24.04	23.48	1.19	1.06	1.05	1.04
230	5.29	5.27	5.23	0.06	1.74	24.20	24.12	23.59	1.18	1.06	1.06	1.04
240	5.30	5.28	5.24	0.06	1.81	24.38	24.21	23.72	1.18	1.07	1.06	1.04
250	5.32	5.30	5.25	0.07	1.84	24.61	24.31	23.89	1.17	1.07	1.06	1.04
260	5.34	5.32	5.27	0.07	1.91	24.89	24.45	24.10	1.17	1.08	1.07	1.04
270	5.36	5.34	5.27	0.09	1.97	25.20	24.60	24.35	1.16	1.08	1.08	1.04
280	5.38	5.35	5.29	0.09	2.01	25.57	24.78	24.64	1.16	1.09	1.08	1.05
290	5.40	5.36	5.30	0.10	2.06	26.00	24.95	24.98	1.16	1.09	1.09	1.05
300	5.43	5.38	5.31	0.12	2.11	26.49	25.15	25.38	1.16	1.10	1.10	1.05
310	5.46	5.41	5.33	0.13	2.14	27.12	25.38	25.87	1.16	1.11	1.10	1.06
320	5.49	5.44	5.35	0.14	2.17	27.83	25.64	26.43	1.17	1.12	1.11	1.07
330	5.52	5.46	5.37	0.15	2.21	28.69	25.90	27.13	1.18	1.13	1.12	1.07
340	5.54	5.48	5.39	0.15	2.25	29.73	26.17	27.95	1.19	1.14	1.13	1.08
350	5.58	5.51	5.41	0.17	2.26	31.01	26.41	28.92	1.21	1.15	1.14	1.09
375	5.70	5.61	5.50	0.20	2.31	36.10	26.94	32.73	1.28	1.18	1.17	1.12
400	5.85	5.74	5.60	0.25	2.35	40.83	27.02	42.24	1.37	1.22	1.20	1.14
425	6.05	5.92	5.76	0.28	2.33	32.24	26.31	38.65	1.51	1.26	1.23	1.18
450	6.31	6.14	5.96	0.35	2.25	26.66	24.79	29.55	1.69	1.30	1.26	1.21
475	6.67	6.46	6.26	0.41	2.16	22.85	22.91	24.72	1.93	1.35	1.30	1.25
500	7.13	6.88	6.65	0.48	2.02	20.00	20.99	21.38	2.24	1.41	1.33	1.30
525	7.73	7.43	7.16	0.57	2.24	17.75	19.24	18.84	2.63	1.46	1.36	1.34
550	8.46	8.10	7.79	0.67	2.60	15.95	17.72	16.85	3.14	1.51	1.39	1.38
575	9.37	8.94	8.57	0.80	3.00	14.49	16.43	15.27	3.76	1.56	1.42	1.42

¹Total Loss = Insertion Loss + 4.8dB Splitter Loss

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3 Way-0° Power Splitter/Combiner

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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	4.91	4.92	4.92	0.01	0.11	24.39	24.86	24.69	1.28	1.17	1.16	1.16
20	4.98	4.99	4.99	0.01	0.16	25.44	25.74	25.48	1.25	1.08	1.08	1.08
30	4.99	5.00	5.01	0.02	0.25	25.52	25.76	25.48	1.25	1.06	1.05	1.06
40	5.00	5.01	5.02	0.02	0.31	25.45	25.69	25.38	1.24	1.04	1.04	1.05
50	5.01	5.01	5.03	0.02	0.44	25.38	25.61	25.28	1.24	1.04	1.03	1.04
60	5.02	5.02	5.03	0.01	0.51	25.32	25.55	25.18	1.24	1.03	1.02	1.03
70	5.03	5.03	5.04	0.01	0.59	25.26	25.50	25.10	1.23	1.03	1.02	1.03
80	5.04	5.03	5.05	0.02	0.70	25.21	25.45	25.03	1.23	1.02	1.02	1.03
90	5.05	5.04	5.05	0.01	0.77	25.15	25.41	24.94	1.23	1.02	1.02	1.03
100	5.05	5.05	5.06	0.01	0.85	25.11	25.37	24.86	1.23	1.02	1.02	1.02
110	5.07	5.06	5.06	0.01	0.95	25.05	25.32	24.77	1.23	1.01	1.02	1.02
120	5.07	5.07	5.07	0.00	1.04	25.00	25.28	24.69	1.22	1.01	1.01	1.02
130	5.09	5.07	5.08	0.01	1.12	24.95	25.23	24.61	1.22	1.01	1.01	1.02
140	5.09	5.08	5.08	0.01	1.21	24.93	25.20	24.56	1.22	1.01	1.01	1.02
150	5.10	5.09	5.09	0.01	1.27	24.91	25.19	24.51	1.22	1.01	1.02	1.02
160	5.12	5.09	5.10	0.03	1.35	24.90	25.18	24.47	1.22	1.01	1.02	1.01
170	5.13	5.10	5.11	0.03	1.45	24.89	25.14	24.42	1.22	1.01	1.02	1.01
180	5.14	5.12	5.11	0.03	1.53	24.92	25.13	24.40	1.21	1.01	1.02	1.01
190	5.15	5.12	5.12	0.03	1.60	24.97	25.14	24.41	1.21	1.02	1.03	1.01
200	5.16	5.13	5.13	0.03	1.69	25.04	25.17	24.44	1.21	1.02	1.03	1.01
210	5.18	5.14	5.13	0.05	1.75	25.15	25.22	24.50	1.20	1.02	1.03	1.00
220	5.19	5.15	5.14	0.05	1.87	25.27	25.28	24.59	1.20	1.03	1.04	1.00
230	5.20	5.16	5.15	0.05	1.93	25.44	25.35	24.70	1.19	1.03	1.04	1.00
240	5.22	5.17	5.15	0.07	2.00	25.63	25.43	24.83	1.18	1.04	1.05	1.01
250	5.23	5.17	5.16	0.07	2.06	25.88	25.52	25.03	1.18	1.04	1.05	1.01
260	5.25	5.19	5.17	0.08	2.12	26.20	25.67	25.26	1.17	1.05	1.06	1.01
270	5.27	5.21	5.18	0.09	2.21	26.56	25.84	25.55	1.17	1.06	1.07	1.02
280	5.29	5.22	5.18	0.11	2.26	27.00	26.02	25.89	1.16	1.06	1.08	1.02
290	5.30	5.22	5.19	0.11	2.32	27.51	26.20	26.30	1.16	1.07	1.08	1.03
300	5.32	5.24	5.20	0.12	2.39	28.12	26.41	26.77	1.16	1.08	1.09	1.04
310	5.35	5.27	5.22	0.13	2.45	28.89	26.64	27.37	1.16	1.09	1.10	1.04
320	5.37	5.28	5.23	0.14	2.51	29.79	26.89	28.07	1.16	1.10	1.11	1.05
330	5.40	5.30	5.25	0.15	2.55	30.91	27.15	28.95	1.17	1.11	1.12	1.06
340	5.43	5.32	5.26	0.17	2.60	32.34	27.38	30.00	1.18	1.12	1.12	1.07
350	5.46	5.34	5.28	0.18	2.63	34.13	27.58	31.31	1.20	1.13	1.13	1.07
375	5.57	5.43	5.35	0.22	2.74	41.64	27.79	37.00	1.26	1.16	1.16	1.10
400	5.70	5.55	5.45	0.25	2.89	36.65	27.32	49.23	1.36	1.19	1.19	1.13
425	5.88	5.70	5.59	0.30	2.86	29.56	25.98	33.43	1.49	1.23	1.22	1.16
450	6.13	5.91	5.77	0.36	2.87	24.99	24.09	27.20	1.68	1.28	1.25	1.19
475	6.47	6.21	6.05	0.42	2.82	21.66	22.08	23.21	1.92	1.32	1.29	1.23
500	6.90	6.61	6.42	0.48	2.73	19.07	20.16	20.25	2.24	1.38	1.32	1.27
525	7.48	7.14	6.91	0.57	3.07	16.96	18.45	17.91	2.66	1.43	1.36	1.32
550	8.19	7.80	7.54	0.65	3.45	15.26	16.98	16.06	3.19	1.48	1.39	1.37
575	9.08	8.62	8.31	0.77	3.90	13.87	15.75	14.56	3.87	1.53	1.42	1.41

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 (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	5.08	5.09	5.09	0.01	0.14	23.10	23.30	23.19	1.27	1.15	1.15	1.15
20	5.08	5.10	5.09	0.02	0.21	22.95	23.17	23.05	1.26	1.14	1.14	1.13
30	5.09	5.11	5.10	0.02	0.31	22.83	23.06	22.91	1.25	1.13	1.13	1.13
40	5.10	5.12	5.11	0.02	0.37	22.75	23.00	22.82	1.25	1.13	1.13	1.13
50	5.11	5.13	5.12	0.02	0.49	22.68	22.93	22.73	1.24	1.13	1.13	1.13
60	5.12	5.15	5.13	0.03	0.56	22.62	22.87	22.64	1.24	1.12	1.13	1.12
70	5.13	5.16	5.15	0.03	0.62	22.56	22.83	22.57	1.24	1.12	1.13	1.12
80	5.15	5.17	5.16	0.02	0.73	22.52	22.79	22.51	1.23	1.12	1.12	1.12
90	5.16	5.18	5.17	0.02	0.80	22.48	22.76	22.44	1.23	1.12	1.12	1.12
100	5.17	5.20	5.18	0.03	0.88	22.45	22.73	22.38	1.23	1.12	1.11	1.11
110	5.19	5.21	5.19	0.02	0.99	22.42	22.71	22.33	1.23	1.11	1.11	1.11
120	5.20	5.23	5.20	0.03	1.08	22.40	22.69	22.28	1.23	1.11	1.10	1.11
130	5.22	5.24	5.22	0.03	1.16	22.39	22.67	22.24	1.22	1.11	1.10	1.11
140	5.23	5.26	5.23	0.03	1.25	22.40	22.68	22.23	1.22	1.11	1.09	1.10
150	5.24	5.27	5.24	0.03	1.33	22.42	22.69	22.21	1.22	1.11	1.09	1.10
160	5.26	5.29	5.25	0.04	1.38	22.45	22.70	22.21	1.21	1.10	1.09	1.10
170	5.28	5.30	5.26	0.04	1.49	22.47	22.71	22.20	1.21	1.10	1.09	1.09
180	5.29	5.32	5.28	0.04	1.56	22.52	22.73	22.22	1.20	1.10	1.09	1.09
190	5.31	5.33	5.29	0.04	1.62	22.59	22.76	22.25	1.20	1.10	1.08	1.09
200	5.32	5.35	5.30	0.05	1.68	22.68	22.81	22.31	1.19	1.10	1.08	1.09
210	5.34	5.37	5.31	0.06	1.73	22.79	22.88	22.38	1.19	1.10	1.08	1.08
220	5.36	5.39	5.33	0.06	1.82	22.91	22.96	22.46	1.18	1.10	1.08	1.08
230	5.38	5.40	5.34	0.06	1.85	23.05	23.04	22.57	1.18	1.10	1.08	1.08
240	5.39	5.42	5.35	0.07	1.92	23.21	23.12	22.69	1.18	1.10	1.08	1.08
250	5.42	5.44	5.36	0.08	1.96	23.41	23.21	22.83	1.17	1.10	1.08	1.08
260	5.44	5.46	5.38	0.08	2.01	23.65	23.34	23.01	1.17	1.11	1.08	1.07
270	5.47	5.49	5.40	0.09	2.07	23.91	23.49	23.23	1.16	1.11	1.09	1.07
280	5.49	5.51	5.42	0.09	2.11	24.21	23.65	23.47	1.16	1.12	1.09	1.08
290	5.51	5.52	5.42	0.10	2.16	24.56	23.80	23.76	1.16	1.12	1.10	1.08
300	5.54	5.55	5.44	0.11	2.21	24.96	23.98	24.07	1.16	1.13	1.10	1.08
310	5.57	5.58	5.47	0.11	2.23	25.46	24.19	24.47	1.17	1.13	1.11	1.08
320	5.61	5.61	5.49	0.12	2.26	26.01	24.42	24.92	1.18	1.14	1.12	1.09
330	5.64	5.64	5.52	0.12	2.28	26.68	24.68	25.47	1.19	1.15	1.13	1.10
340	5.67	5.67	5.54	0.13	2.30	27.46	24.94	26.10	1.20	1.16	1.13	1.10
350	5.72	5.70	5.57	0.15	2.30	28.38	25.19	26.82	1.22	1.17	1.14	1.11
375	5.85	5.82	5.67	0.18	2.34	31.78	25.85	29.49	1.29	1.20	1.17	1.13
400	6.01	5.96	5.79	0.22	2.35	37.70	26.31	34.46	1.39	1.24	1.19	1.16
425	6.23	6.15	5.95	0.27	2.31	36.34	26.26	47.49	1.52	1.28	1.23	1.19
450	6.50	6.40	6.18	0.32	2.22	29.18	25.34	33.66	1.69	1.32	1.26	1.23
475	6.89	6.74	6.48	0.41	2.11	24.60	23.78	27.10	1.92	1.37	1.29	1.27
500	7.36	7.17	6.89	0.47	1.94	21.33	21.95	23.06	2.21	1.43	1.33	1.31
525	7.98	7.73	7.41	0.57	2.18	18.83	20.19	20.16	2.57	1.48	1.36	1.35
550	8.74	8.43	8.06	0.68	2.52	16.86	18.61	17.95	3.03	1.53	1.39	1.40
575	9.66	9.27	8.84	0.82	2.93	15.30	17.26	16.22	3.57	1.58	1.41	1.43

¹Total Loss = Insertion Loss + 4.8dB Splitter Loss



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