

3 Way-0° Power Splitter/Combiner

LRPS-3-850

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
40	6.00	6.12	6.10	0.12	0.51	12.82	11.47	11.21	2.88	4.91	5.05	5.24
50	5.68	5.80	5.80	0.13	0.58	13.11	11.53	11.24	2.45	4.07	4.19	4.42
75	5.34	5.47	5.49	0.15	0.72	14.29	12.27	11.93	1.99	2.98	3.06	3.30
100	5.22	5.35	5.39	0.17	0.78	15.49	13.21	12.89	1.82	2.44	2.50	2.71
125	5.16	5.29	5.35	0.19	0.82	16.51	14.15	13.89	1.72	2.12	2.16	2.34
150	5.13	5.26	5.34	0.20	0.77	17.33	15.00	14.84	1.67	1.92	1.95	2.10
175	5.12	5.25	5.32	0.20	0.78	18.00	15.77	15.70	1.63	1.78	1.80	1.93
200	5.11	5.24	5.33	0.21	0.78	18.55	16.47	16.51	1.61	1.68	1.69	1.80
225	5.11	5.24	5.33	0.21	0.79	18.99	17.07	17.21	1.59	1.61	1.61	1.70
250	5.11	5.24	5.33	0.21	0.77	19.40	17.63	17.84	1.57	1.55	1.54	1.63
275	5.12	5.24	5.33	0.21	0.76	19.73	18.12	18.41	1.56	1.50	1.49	1.57
300	5.12	5.24	5.33	0.21	0.77	20.05	18.59	18.92	1.55	1.46	1.45	1.52
325	5.13	5.25	5.34	0.20	0.76	20.34	19.00	19.35	1.54	1.43	1.41	1.48
350	5.14	5.25	5.34	0.20	0.72	20.63	19.40	19.75	1.53	1.41	1.38	1.44
375	5.15	5.25	5.34	0.20	0.70	20.89	19.76	20.08	1.52	1.38	1.35	1.41
400	5.15	5.26	5.34	0.19	0.68	21.17	20.14	20.40	1.50	1.36	1.33	1.38
425	5.16	5.27	5.35	0.18	0.63	21.44	20.48	20.65	1.50	1.35	1.31	1.36
450	5.17	5.27	5.35	0.18	0.65	21.75	20.82	20.89	1.48	1.33	1.29	1.34
475	5.18	5.27	5.35	0.17	0.62	22.07	21.18	21.09	1.47	1.32	1.27	1.32
500	5.19	5.28	5.35	0.16	0.62	22.40	21.52	21.29	1.45	1.31	1.26	1.30
525	5.20	5.29	5.36	0.15	0.60	22.82	21.95	21.50	1.44	1.29	1.24	1.28
550	5.21	5.30	5.35	0.14	0.57	23.21	22.32	21.65	1.42	1.28	1.23	1.27
575	5.23	5.30	5.36	0.13	0.55	23.73	22.79	21.85	1.40	1.27	1.22	1.25
600	5.24	5.31	5.36	0.11	0.50	24.23	23.21	21.96	1.38	1.26	1.20	1.24
625	5.25	5.32	5.36	0.10	0.58	24.91	23.77	22.18	1.36	1.25	1.19	1.23
650	5.27	5.34	5.36	0.09	0.70	25.64	24.33	22.31	1.34	1.24	1.18	1.22
675	5.29	5.35	5.36	0.07	0.85	26.57	25.01	22.55	1.31	1.23	1.17	1.21
700	5.30	5.36	5.36	0.06	1.02	27.67	25.81	22.73	1.28	1.22	1.16	1.19
725	5.33	5.39	5.37	0.06	1.17	29.09	26.71	22.97	1.25	1.21	1.15	1.18
750	5.35	5.41	5.38	0.06	1.34	31.05	27.89	23.16	1.21	1.20	1.14	1.17
775	5.38	5.45	5.39	0.07	1.62	33.80	29.17	23.40	1.18	1.19	1.13	1.16
800	5.42	5.48	5.40	0.08	2.03	38.74	31.07	23.58	1.15	1.18	1.13	1.15
825	5.47	5.54	5.43	0.11	2.46	52.16	33.06	23.70	1.12	1.18	1.13	1.14
850	5.52	5.60	5.46	0.14	3.00	41.16	35.39	23.72	1.12	1.17	1.13	1.12
875	5.59	5.68	5.51	0.17	3.53	33.90	35.93	23.51	1.14	1.17	1.13	1.11
900	5.69	5.79	5.57	0.22	4.23	29.44	33.33	23.14	1.19	1.18	1.14	1.10
925	5.81	5.92	5.66	0.26	5.03	26.36	30.25	22.44	1.27	1.19	1.16	1.09
950	5.97	6.09	5.78	0.31	5.90	23.82	27.29	21.57	1.37	1.21	1.18	1.08
975	6.17	6.32	5.94	0.38	6.92	21.71	24.87	20.46	1.50	1.24	1.20	1.07
1000	6.43	6.61	6.15	0.46	8.17	19.88	22.76	19.31	1.66	1.28	1.24	1.08

¹Total Loss = Insertion Loss + 4.8dB Splitter Loss

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3 Way-0° Power Splitter/Combiner

LRPS-3-850

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
40	5.99	6.08	6.07	0.08	0.83	12.74	11.41	11.10	2.85	4.93	5.01	5.20
50	5.67	5.77	5.77	0.10	1.07	13.03	11.47	11.15	2.44	4.08	4.16	4.39
75	5.31	5.45	5.49	0.18	1.31	14.24	12.24	11.92	2.00	2.98	3.09	3.34
100	5.17	5.34	5.38	0.21	1.17	15.48	13.19	12.92	1.81	2.44	2.54	2.75
125	5.12	5.28	5.32	0.20	1.20	16.56	14.16	13.92	1.71	2.13	2.19	2.37
150	5.11	5.24	5.32	0.20	1.41	17.43	15.05	14.88	1.67	1.94	1.97	2.12
175	5.11	5.23	5.32	0.21	1.54	18.14	15.87	15.79	1.65	1.81	1.83	1.97
200	5.10	5.23	5.32	0.22	1.58	18.68	16.57	16.59	1.63	1.72	1.73	1.85
225	5.10	5.23	5.31	0.20	1.66	19.10	17.14	17.26	1.61	1.65	1.64	1.74
250	5.11	5.22	5.31	0.20	1.89	19.44	17.66	17.84	1.60	1.59	1.57	1.66
275	5.12	5.22	5.32	0.21	2.04	19.73	18.11	18.36	1.59	1.54	1.51	1.61
300	5.11	5.22	5.32	0.21	2.13	20.01	18.54	18.85	1.58	1.50	1.48	1.56
325	5.11	5.22	5.31	0.20	2.21	20.27	18.92	19.26	1.56	1.46	1.45	1.51
350	5.11	5.22	5.30	0.19	2.33	20.55	19.30	19.64	1.55	1.43	1.41	1.46
375	5.12	5.22	5.31	0.19	2.45	20.81	19.66	19.98	1.54	1.40	1.38	1.43
400	5.12	5.22	5.31	0.18	2.54	21.11	20.04	20.31	1.52	1.38	1.36	1.41
425	5.13	5.23	5.31	0.18	2.59	21.36	20.36	20.55	1.51	1.37	1.34	1.38
450	5.13	5.22	5.30	0.17	2.64	21.65	20.68	20.78	1.50	1.35	1.32	1.35
475	5.14	5.23	5.30	0.16	2.72	21.93	21.00	20.95	1.49	1.34	1.29	1.33
500	5.15	5.23	5.30	0.15	2.79	22.23	21.31	21.12	1.47	1.32	1.27	1.31
525	5.16	5.24	5.30	0.14	2.86	22.62	21.69	21.32	1.45	1.31	1.26	1.30
550	5.17	5.24	5.29	0.13	2.92	23.01	22.04	21.52	1.43	1.29	1.24	1.28
575	5.17	5.24	5.29	0.12	2.92	23.52	22.50	21.76	1.41	1.28	1.22	1.26
600	5.18	5.24	5.29	0.10	2.90	24.03	22.91	21.94	1.39	1.26	1.21	1.25
625	5.19	5.25	5.28	0.09	2.89	24.76	23.48	22.22	1.36	1.25	1.20	1.23
650	5.20	5.26	5.28	0.08	2.87	25.52	24.05	22.41	1.33	1.24	1.19	1.22
675	5.21	5.27	5.27	0.06	2.78	26.50	24.75	22.70	1.30	1.22	1.17	1.21
700	5.23	5.28	5.27	0.05	2.65	27.62	25.52	22.90	1.27	1.22	1.16	1.19
725	5.25	5.30	5.28	0.05	2.57	29.09	26.40	23.17	1.24	1.21	1.16	1.18
750	5.27	5.33	5.28	0.05	2.39	31.07	27.51	23.41	1.21	1.20	1.15	1.17
775	5.30	5.36	5.30	0.06	2.18	33.84	28.71	23.68	1.18	1.19	1.14	1.16
800	5.33	5.39	5.31	0.08	1.98	38.82	30.39	23.91	1.14	1.19	1.13	1.15
825	5.37	5.43	5.32	0.11	1.83	50.75	32.04	24.06	1.11	1.18	1.13	1.13
850	5.42	5.49	5.35	0.14	1.68	40.47	33.78	24.12	1.11	1.18	1.13	1.12
875	5.49	5.57	5.39	0.18	1.50	33.57	34.12	23.91	1.13	1.18	1.14	1.11
900	5.58	5.67	5.45	0.22	1.22	29.17	32.14	23.48	1.19	1.18	1.15	1.10
925	5.70	5.80	5.53	0.27	1.26	26.15	29.57	22.71	1.26	1.20	1.16	1.09
950	5.85	5.96	5.65	0.32	1.67	23.64	26.86	21.76	1.37	1.22	1.18	1.08
975	6.04	6.18	5.80	0.38	2.13	21.57	24.61	20.59	1.49	1.25	1.21	1.08
1000	6.28	6.46	6.00	0.46	3.05	19.76	22.57	19.39	1.65	1.29	1.25	1.08

¹Total Loss = Insertion Loss + 4.8dB Splitter Loss

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3 Way-0° Power Splitter/Combiner

LRPS-3-850

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
40	5.98	6.17	6.16	0.18	0.35	12.91	11.55	11.34	2.90	4.91	5.12	5.31
50	5.67	5.84	5.84	0.17	0.46	13.19	11.61	11.36	2.47	4.07	4.24	4.46
75	5.36	5.47	5.49	0.14	0.63	14.34	12.31	11.96	1.99	2.99	3.05	3.28
100	5.25	5.34	5.39	0.14	0.70	15.48	13.22	12.85	1.82	2.45	2.45	2.67
125	5.19	5.30	5.37	0.19	0.63	16.46	14.14	13.86	1.73	2.13	2.14	2.33
150	5.14	5.27	5.36	0.22	0.52	17.21	14.95	14.78	1.67	1.91	1.94	2.10
175	5.11	5.25	5.33	0.21	0.70	17.84	15.68	15.61	1.62	1.76	1.78	1.90
200	5.11	5.24	5.33	0.21	0.84	18.37	16.35	16.38	1.58	1.65	1.65	1.76
225	5.11	5.24	5.34	0.23	0.92	18.84	16.97	17.10	1.57	1.57	1.57	1.67
250	5.10	5.24	5.34	0.24	1.01	19.28	17.55	17.78	1.55	1.51	1.51	1.61
275	5.11	5.24	5.35	0.24	1.17	19.67	18.08	18.39	1.53	1.46	1.47	1.54
300	5.11	5.24	5.34	0.22	1.33	20.04	18.58	18.93	1.51	1.43	1.42	1.48
325	5.13	5.25	5.35	0.21	1.48	20.37	19.03	19.40	1.50	1.40	1.38	1.44
350	5.14	5.25	5.35	0.21	1.58	20.69	19.47	19.83	1.50	1.38	1.35	1.41
375	5.15	5.26	5.36	0.21	1.71	20.97	19.85	20.18	1.49	1.36	1.33	1.39
400	5.16	5.27	5.36	0.20	1.84	21.28	20.25	20.52	1.48	1.34	1.31	1.36
425	5.18	5.28	5.37	0.19	2.03	21.55	20.59	20.76	1.47	1.33	1.29	1.33
450	5.19	5.28	5.37	0.18	2.17	21.87	20.96	21.02	1.46	1.31	1.27	1.31
475	5.20	5.29	5.38	0.18	2.36	22.19	21.33	21.22	1.45	1.30	1.25	1.30
500	5.21	5.30	5.38	0.17	2.50	22.54	21.70	21.42	1.43	1.28	1.24	1.28
525	5.23	5.31	5.39	0.16	2.68	22.98	22.14	21.62	1.42	1.27	1.23	1.26
550	5.24	5.32	5.39	0.15	2.87	23.41	22.55	21.78	1.40	1.26	1.21	1.25
575	5.26	5.33	5.40	0.14	3.11	23.95	23.07	21.98	1.38	1.26	1.20	1.24
600	5.28	5.35	5.40	0.12	3.30	24.44	23.50	22.07	1.37	1.25	1.19	1.23
625	5.30	5.36	5.40	0.10	3.53	25.15	24.09	22.26	1.35	1.24	1.18	1.21
650	5.32	5.38	5.41	0.09	3.74	25.87	24.68	22.35	1.33	1.23	1.17	1.21
675	5.33	5.39	5.41	0.08	4.00	26.80	25.40	22.54	1.30	1.22	1.16	1.19
700	5.36	5.41	5.42	0.06	4.36	27.87	26.21	22.65	1.28	1.21	1.16	1.19
725	5.39	5.44	5.43	0.05	4.72	29.31	27.17	22.83	1.25	1.20	1.15	1.18
750	5.42	5.47	5.44	0.05	5.14	31.20	28.41	22.96	1.22	1.20	1.14	1.17
775	5.45	5.51	5.46	0.06	5.61	33.90	29.85	23.13	1.19	1.19	1.13	1.16
800	5.49	5.55	5.48	0.07	6.14	38.38	31.97	23.25	1.16	1.18	1.13	1.15
825	5.54	5.60	5.51	0.10	6.76	45.34	34.50	23.29	1.14	1.17	1.13	1.14
850	5.60	5.67	5.54	0.13	7.39	40.05	38.02	23.26	1.13	1.17	1.12	1.13
875	5.68	5.76	5.59	0.17	8.12	33.84	39.23	23.03	1.15	1.17	1.13	1.12
900	5.78	5.87	5.66	0.21	8.96	29.56	35.13	22.68	1.20	1.17	1.13	1.10
925	5.91	6.01	5.75	0.26	9.88	26.53	31.24	22.05	1.27	1.18	1.15	1.09
950	6.08	6.18	5.88	0.31	10.93	24.00	27.91	21.27	1.36	1.20	1.17	1.08
975	6.28	6.41	6.04	0.37	12.10	21.90	25.33	20.26	1.49	1.23	1.20	1.08
1000	6.55	6.71	6.25	0.46	13.52	20.06	23.13	19.19	1.64	1.26	1.23	1.08

¹Total Loss = Insertion Loss + 4.8dB Splitter Loss

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