

2 Way-90° Power Splitter/Combiner

LRPQ-700

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	1	2
300	1.19	6.75	5.56	89.79	32.16	1.08	1.07	1.07
350	1.52	5.77	4.25	89.78	30.78	1.08	1.08	1.08
375	1.69	5.36	3.68	89.80	30.08	1.09	1.09	1.08
400	1.86	4.99	3.13	89.80	29.42	1.09	1.10	1.08
425	2.03	4.67	2.64	89.81	28.82	1.09	1.10	1.09
450	2.22	4.38	2.16	89.82	28.28	1.10	1.11	1.09
475	2.39	4.10	1.71	89.84	27.73	1.10	1.11	1.09
500	2.56	3.86	1.30	89.88	27.22	1.10	1.12	1.10
510	2.64	3.77	1.13	89.85	27.03	1.10	1.12	1.10
520	2.71	3.68	0.98	89.87	26.86	1.11	1.12	1.10
530	2.78	3.60	0.82	89.89	26.69	1.11	1.12	1.10
540	2.85	3.52	0.68	89.90	26.51	1.11	1.12	1.11
550	2.92	3.44	0.52	89.91	26.34	1.11	1.13	1.11
560	2.99	3.37	0.38	89.91	26.14	1.11	1.13	1.11
570	3.05	3.30	0.24	89.91	25.97	1.11	1.13	1.11
580	3.13	3.23	0.10	89.95	25.78	1.11	1.13	1.11
590	3.20	3.16	0.03	89.94	25.61	1.11	1.14	1.11
600	3.26	3.10	0.17	89.95	25.44	1.11	1.14	1.12
610	3.34	3.04	0.30	89.94	25.26	1.12	1.14	1.12
620	3.40	2.98	0.42	89.97	25.08	1.12	1.14	1.12
630	3.47	2.92	0.54	89.98	24.91	1.12	1.15	1.12
640	3.53	2.87	0.67	89.99	24.75	1.12	1.15	1.12
650	3.60	2.82	0.78	89.97	24.60	1.12	1.15	1.12
660	3.67	2.76	0.90	89.97	24.44	1.12	1.15	1.13
670	3.73	2.72	1.02	89.96	24.29	1.12	1.16	1.13
680	3.81	2.67	1.14	89.94	24.14	1.13	1.16	1.13
690	3.86	2.62	1.24	89.90	23.99	1.13	1.16	1.13
700	3.93	2.57	1.35	89.88	23.84	1.13	1.16	1.13
750	4.24	2.38	1.86	89.83	23.09	1.14	1.18	1.15
800	4.54	2.21	2.33	89.71	22.37	1.14	1.19	1.16
850	4.82	2.07	2.75	89.58	21.65	1.15	1.21	1.17
900	5.09	1.96	3.13	89.39	21.01	1.16	1.22	1.18
950	5.33	1.86	3.47	89.18	20.34	1.17	1.24	1.20
1000	5.57	1.78	3.79	88.95	19.67	1.19	1.26	1.21
1050	5.78	1.73	4.05	88.65	19.06	1.20	1.28	1.23
1100	5.98	1.68	4.30	88.33	18.45	1.22	1.30	1.25
1150	6.14	1.65	4.49	87.95	17.85	1.23	1.33	1.27
1200	6.30	1.63	4.67	87.49	17.25	1.25	1.36	1.29
1250	6.44	1.62	4.82	86.92	16.68	1.28	1.39	1.32
1300	6.56	1.63	4.93	86.34	16.11	1.30	1.42	1.35

¹Total Loss = Insertion Loss + 3dB Splitter Loss



2 Way-90° Power Splitter/Combiner

LRPQ-700

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	1	2
300	1.15	6.69	5.54	89.84	31.25	1.10	1.10	1.07
350	1.47	5.70	4.24	89.80	30.26	1.09	1.09	1.08
375	1.63	5.29	3.66	89.81	29.63	1.09	1.10	1.08
400	1.80	4.93	3.13	89.83	28.85	1.10	1.11	1.09
425	1.98	4.59	2.61	89.83	28.21	1.10	1.11	1.09
450	2.16	4.30	2.14	89.83	27.83	1.10	1.11	1.10
475	2.33	4.02	1.69	89.84	27.39	1.11	1.12	1.10
500	2.50	3.78	1.27	89.88	26.89	1.11	1.12	1.11
510	2.58	3.69	1.11	89.88	26.72	1.11	1.13	1.11
520	2.65	3.60	0.95	89.88	26.61	1.11	1.13	1.11
530	2.71	3.51	0.80	89.89	26.49	1.11	1.13	1.11
540	2.78	3.43	0.65	89.89	26.39	1.11	1.13	1.11
550	2.85	3.35	0.50	89.92	26.27	1.11	1.13	1.11
560	2.92	3.27	0.36	89.91	26.12	1.11	1.13	1.11
570	2.99	3.21	0.21	89.90	25.96	1.11	1.13	1.11
580	3.06	3.14	0.08	89.94	25.78	1.11	1.14	1.11
590	3.13	3.07	0.05	89.94	25.60	1.12	1.14	1.11
600	3.19	3.01	0.19	89.94	25.43	1.12	1.14	1.12
610	3.26	2.94	0.32	89.94	25.26	1.12	1.14	1.12
620	3.33	2.88	0.45	89.95	25.12	1.12	1.15	1.12
630	3.40	2.82	0.57	89.97	25.00	1.12	1.15	1.12
640	3.46	2.77	0.70	89.97	24.88	1.12	1.15	1.12
650	3.53	2.71	0.82	89.98	24.76	1.12	1.15	1.12
660	3.60	2.66	0.93	89.99	24.62	1.12	1.15	1.13
670	3.66	2.61	1.05	89.99	24.46	1.12	1.16	1.13
680	3.73	2.56	1.17	89.97	24.30	1.12	1.16	1.13
690	3.79	2.52	1.27	89.96	24.12	1.12	1.16	1.13
700	3.86	2.47	1.38	89.94	23.94	1.13	1.16	1.14
750	4.16	2.27	1.89	89.91	23.20	1.13	1.17	1.15
800	4.46	2.10	2.36	89.76	22.42	1.14	1.19	1.16
850	4.73	1.96	2.77	89.67	21.69	1.16	1.20	1.17
900	5.00	1.84	3.16	89.50	20.99	1.17	1.22	1.18
950	5.24	1.74	3.50	89.28	20.29	1.18	1.24	1.20
1000	5.48	1.66	3.82	89.02	19.65	1.19	1.26	1.22
1050	5.69	1.60	4.09	88.73	19.02	1.21	1.28	1.24
1100	5.89	1.55	4.34	88.46	18.51	1.22	1.30	1.26
1150	6.06	1.50	4.56	88.13	17.92	1.23	1.33	1.27
1200	6.20	1.48	4.72	87.71	17.33	1.25	1.36	1.29
1250	6.33	1.46	4.87	87.22	16.77	1.27	1.38	1.31
1300	6.45	1.46	4.99	86.70	16.18	1.28	1.42	1.33

¹Total Loss = Insertion Loss + 3dB Splitter Loss



2 Way-90° Power Splitter/Combiner

LRPQ-700

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	1	2
300	1.22	6.77	5.55	89.75	33.13	1.05	1.04	1.05
350	1.55	5.80	4.25	89.77	31.81	1.07	1.07	1.07
375	1.72	5.39	3.67	89.80	30.77	1.08	1.08	1.08
400	1.90	5.03	3.13	89.84	30.21	1.08	1.08	1.08
425	2.07	4.70	2.63	89.82	29.80	1.08	1.08	1.08
450	2.25	4.41	2.16	89.82	29.23	1.08	1.09	1.09
475	2.42	4.14	1.72	89.85	28.45	1.09	1.10	1.09
500	2.60	3.90	1.29	89.91	27.80	1.10	1.11	1.10
510	2.68	3.81	1.13	89.90	27.59	1.10	1.11	1.10
520	2.75	3.72	0.98	89.93	27.44	1.10	1.11	1.10
530	2.81	3.64	0.83	89.95	27.26	1.10	1.11	1.10
540	2.89	3.56	0.68	89.95	27.09	1.10	1.11	1.10
550	2.95	3.48	0.53	89.97	26.88	1.10	1.12	1.11
560	3.03	3.41	0.39	89.98	26.64	1.10	1.12	1.11
570	3.09	3.34	0.24	89.98	26.41	1.11	1.13	1.11
580	3.17	3.28	0.11	89.97	26.17	1.11	1.13	1.11
590	3.24	3.21	0.02	89.98	25.93	1.11	1.13	1.11
600	3.30	3.15	0.16	89.94	25.71	1.11	1.14	1.12
610	3.37	3.09	0.28	89.94	25.49	1.11	1.14	1.12
620	3.44	3.03	0.41	89.92	25.30	1.12	1.14	1.12
630	3.51	2.97	0.53	89.89	25.12	1.12	1.15	1.12
640	3.58	2.92	0.67	89.87	24.95	1.12	1.15	1.12
650	3.64	2.87	0.77	89.86	24.78	1.12	1.15	1.12
660	3.72	2.81	0.90	89.83	24.61	1.12	1.15	1.13
670	3.77	2.77	1.01	89.81	24.44	1.12	1.16	1.13
680	3.84	2.72	1.12	89.79	24.27	1.12	1.16	1.13
690	3.91	2.67	1.24	89.76	24.09	1.12	1.16	1.13
700	3.97	2.63	1.34	89.73	23.91	1.13	1.16	1.13
750	4.28	2.43	1.85	89.65	23.04	1.14	1.18	1.14
800	4.58	2.27	2.31	89.49	22.28	1.14	1.19	1.16
850	4.86	2.14	2.72	89.33	21.54	1.15	1.21	1.17
900	5.13	2.03	3.10	89.11	20.84	1.16	1.23	1.18
950	5.37	1.93	3.44	88.87	20.14	1.17	1.24	1.20
1000	5.61	1.86	3.75	88.57	19.42	1.19	1.27	1.21
1050	5.83	1.81	4.02	88.22	18.78	1.20	1.29	1.23
1100	6.02	1.77	4.25	87.83	18.17	1.22	1.31	1.26
1150	6.20	1.75	4.45	87.38	17.55	1.25	1.34	1.28
1200	6.35	1.73	4.62	86.86	16.99	1.27	1.37	1.31
1250	6.50	1.73	4.77	86.17	16.43	1.30	1.40	1.34
1300	6.63	1.74	4.89	85.49	15.89	1.33	1.44	1.37

¹Total Loss = Insertion Loss + 3dB Splitter Loss

