

2 Way-90° Power Splitter/Combiner

HPQ-06

Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS ¹ (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. From 90° (deg.)	ISOLATION (dB) 1-2	VSWR (:1)		
	S-1	S-2				S	1	2
200	0.69	9.08	8.39	0.33	39.99	1.05	1.05	1.04
225	0.84	8.22	7.38	0.30	39.13	1.05	1.06	1.04
250	0.99	7.47	6.47	0.22	38.33	1.06	1.06	1.05
275	1.17	6.82	5.65	0.22	37.61	1.06	1.07	1.05
300	1.34	6.25	4.91	0.18	36.84	1.07	1.07	1.05
325	1.53	5.74	4.21	0.13	35.97	1.07	1.08	1.06
350	1.71	5.29	3.58	0.10	35.17	1.08	1.08	1.06
375	1.91	4.90	2.99	0.05	34.24	1.08	1.09	1.07
400	2.10	4.53	2.43	0.04	33.36	1.09	1.09	1.07
425	2.30	4.22	1.92	0.02	32.41	1.09	1.10	1.08
450	2.50	3.93	1.43	0.00	31.51	1.10	1.10	1.08
460	2.58	3.83	1.25	0.02	31.18	1.10	1.10	1.09
470	2.66	3.73	1.07	0.03	30.82	1.10	1.11	1.09
480	2.75	3.63	0.88	0.04	30.46	1.10	1.11	1.09
490	2.83	3.53	0.70	0.06	30.09	1.10	1.11	1.09
500	2.91	3.44	0.54	0.06	29.75	1.10	1.11	1.09
510	2.99	3.36	0.38	0.05	29.40	1.11	1.11	1.09
520	3.07	3.28	0.20	0.08	29.10	1.11	1.11	1.10
530	3.15	3.20	0.04	0.10	28.77	1.11	1.11	1.10
540	3.23	3.11	0.12	0.12	28.46	1.11	1.12	1.10
550	3.31	3.05	0.26	0.13	28.14	1.11	1.12	1.10
560	3.39	2.98	0.41	0.15	27.84	1.11	1.12	1.10
570	3.48	2.90	0.57	0.15	27.52	1.11	1.12	1.11
580	3.56	2.84	0.72	0.18	27.22	1.12	1.12	1.11
590	3.63	2.78	0.85	0.17	26.94	1.12	1.12	1.11
600	3.72	2.71	1.00	0.18	26.65	1.12	1.12	1.11
610	3.79	2.66	1.14	0.18	26.38	1.12	1.12	1.11
620	3.87	2.60	1.27	0.20	26.10	1.12	1.13	1.11
630	3.95	2.54	1.40	0.23	25.84	1.12	1.13	1.12
640	4.02	2.49	1.53	0.24	25.58	1.12	1.13	1.12
650	4.10	2.44	1.66	0.26	25.33	1.13	1.13	1.12
700	4.48	2.22	2.27	0.29	24.14	1.13	1.13	1.13
750	4.86	2.03	2.83	0.41	23.07	1.14	1.14	1.13
800	5.22	1.86	3.36	0.50	22.11	1.14	1.14	1.14
850	5.56	1.73	3.83	0.60	21.23	1.15	1.14	1.15
900	5.90	1.61	4.28	0.75	20.45	1.15	1.15	1.15
950	6.21	1.52	4.69	0.89	19.73	1.16	1.15	1.16
1000	6.52	1.44	5.07	1.10	19.06	1.17	1.15	1.16
1050	6.80	1.38	5.42	1.28	18.47	1.18	1.16	1.17
1100	7.08	1.33	5.75	1.57	17.89	1.19	1.17	1.18
1150	7.33	1.28	6.05	1.85	17.35	1.20	1.18	1.19
1200	7.58	1.24	6.34	2.22	16.86	1.21	1.19	1.20
1250	7.81	1.21	6.60	2.62	16.38	1.22	1.20	1.21
1300	8.03	1.19	6.84	3.07	15.93	1.23	1.22	1.22
1350	8.24	1.18	7.06	3.57	15.51	1.25	1.24	1.23
1400	8.43	1.17	7.26	4.10	15.10	1.26	1.26	1.25
1450	8.62	1.17	7.45	4.72	14.72	1.28	1.28	1.26
1500	8.78	1.17	7.61	5.44	14.35	1.30	1.31	1.28
1600	9.09	1.20	7.89	7.05	13.67	1.35	1.37	1.33

¹ Total Loss = Insertion Loss+ 3dB Splitter Loss

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2 Way-90° Power Splitter/Combiner

HPQ-06

Typical Performance Data

TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = -40°C

FREQ. (MHz)	TOTAL LOSS ¹ (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. From 90° (deg.)	ISOLATION (dB) 1-2	VSWR (:1)		
	S-1	S-2				S	1	2
200	0.63	9.18	8.55	0.08	41.55	1.06	1.07	1.06
225	0.77	8.31	7.54	0.15	39.77	1.07	1.08	1.06
250	0.92	7.55	6.62	0.23	38.34	1.08	1.09	1.06
275	1.09	6.89	5.80	0.31	37.07	1.08	1.09	1.06
300	1.25	6.31	5.06	0.34	35.91	1.09	1.09	1.07
325	1.43	5.80	4.37	0.43	34.88	1.09	1.10	1.07
350	1.61	5.34	3.73	0.50	33.85	1.10	1.11	1.08
375	1.80	4.94	3.14	0.57	32.89	1.10	1.11	1.08
400	1.99	4.57	2.59	0.61	31.98	1.10	1.11	1.08
425	2.18	4.25	2.07	0.67	31.02	1.11	1.12	1.09
450	2.37	3.96	1.59	0.71	30.10	1.11	1.12	1.09
460	2.45	3.85	1.40	0.71	29.79	1.11	1.12	1.10
470	2.53	3.75	1.22	0.74	29.46	1.11	1.13	1.10
480	2.61	3.65	1.04	0.78	29.09	1.12	1.13	1.10
490	2.69	3.55	0.86	0.82	28.72	1.12	1.13	1.10
500	2.77	3.46	0.69	0.85	28.40	1.12	1.13	1.10
510	2.85	3.37	0.53	0.86	28.10	1.12	1.13	1.11
520	2.92	3.29	0.36	0.91	27.83	1.12	1.13	1.11
530	3.01	3.21	0.20	0.96	27.50	1.12	1.13	1.11
540	3.08	3.12	0.04	0.99	27.19	1.12	1.13	1.11
550	3.16	3.05	0.11	0.99	26.91	1.12	1.13	1.11
560	3.24	2.98	0.26	1.04	26.65	1.13	1.13	1.11
570	3.33	2.91	0.41	1.05	26.38	1.13	1.14	1.12
580	3.40	2.85	0.56	1.09	26.11	1.13	1.14	1.12
590	3.48	2.78	0.70	1.11	25.84	1.13	1.14	1.12
600	3.56	2.71	0.84	1.14	25.56	1.13	1.14	1.12
610	3.63	2.66	0.98	1.16	25.33	1.13	1.14	1.12
620	3.71	2.60	1.11	1.19	25.11	1.13	1.14	1.12
630	3.79	2.54	1.25	1.24	24.89	1.13	1.14	1.13
640	3.86	2.49	1.38	1.26	24.64	1.13	1.14	1.13
650	3.94	2.43	1.51	1.28	24.40	1.13	1.14	1.13
700	4.31	2.20	2.12	1.39	23.36	1.14	1.14	1.13
750	4.69	2.01	2.68	1.62	22.41	1.14	1.15	1.14
800	5.05	1.84	3.21	1.71	21.51	1.15	1.15	1.15
850	5.37	1.70	3.68	1.84	20.68	1.16	1.15	1.15
900	5.69	1.57	4.11	2.09	19.94	1.16	1.15	1.16
950	6.00	1.48	4.52	2.35	19.28	1.17	1.15	1.16
1000	6.31	1.40	4.90	2.73	18.66	1.17	1.15	1.17
1050	6.60	1.33	5.27	3.06	18.10	1.18	1.16	1.18
1100	6.87	1.27	5.60	3.31	17.55	1.19	1.16	1.18
1150	7.11	1.21	5.90	3.66	17.05	1.20	1.17	1.19
1200	7.36	1.17	6.19	4.11	16.58	1.21	1.18	1.20
1250	7.59	1.14	6.45	4.60	16.11	1.22	1.20	1.21
1300	7.81	1.12	6.69	5.04	15.68	1.23	1.21	1.22
1350	8.01	1.09	6.91	5.50	15.28	1.25	1.23	1.23
1400	8.20	1.09	7.11	6.07	14.90	1.26	1.25	1.24
1450	8.38	1.08	7.30	6.70	14.52	1.28	1.28	1.26
1500	8.55	1.08	7.47	7.59	14.16	1.29	1.31	1.27
1600	8.85	1.09	7.76	9.35	13.50	1.34	1.36	1.32

¹ Total Loss = Insertion Loss+ 3dB Splitter Loss

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2 Way-90° Power Splitter/Combiner

HPQ-06

Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS ¹ (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. From 90° (deg.)	ISOLATION (dB) 1-2	VSWR (:1)		
	S-1	S-2				S	1	2
200	0.70	9.14	8.44	0.46	41.62	1.05	1.05	1.04
225	0.85	8.28	7.43	0.46	40.53	1.05	1.06	1.05
250	1.00	7.53	6.52	0.39	39.56	1.06	1.06	1.05
275	1.17	6.88	5.71	0.39	38.63	1.06	1.07	1.06
300	1.35	6.30	4.95	0.40	37.49	1.07	1.08	1.06
325	1.53	5.80	4.27	0.33	36.42	1.08	1.08	1.06
350	1.71	5.35	3.64	0.33	35.20	1.08	1.09	1.07
375	1.91	4.95	3.04	0.30	34.09	1.09	1.09	1.07
400	2.10	4.59	2.50	0.32	33.04	1.09	1.10	1.08
425	2.30	4.27	1.97	0.35	31.95	1.10	1.10	1.09
450	2.50	3.99	1.49	0.33	30.99	1.10	1.11	1.09
460	2.57	3.87	1.30	0.36	30.66	1.10	1.11	1.09
470	2.65	3.78	1.13	0.35	30.30	1.11	1.11	1.09
480	2.74	3.68	0.94	0.33	29.90	1.11	1.11	1.10
490	2.82	3.58	0.76	0.30	29.50	1.11	1.11	1.10
500	2.90	3.49	0.60	0.29	29.18	1.11	1.11	1.10
510	2.98	3.40	0.43	0.29	28.88	1.11	1.12	1.10
520	3.05	3.33	0.27	0.27	28.60	1.11	1.12	1.10
530	3.14	3.24	0.10	0.24	28.22	1.11	1.12	1.11
540	3.22	3.16	0.06	0.22	27.87	1.12	1.12	1.11
550	3.30	3.09	0.21	0.22	27.59	1.12	1.12	1.11
560	3.39	3.02	0.37	0.20	27.33	1.12	1.12	1.11
570	3.47	2.95	0.51	0.20	27.05	1.12	1.12	1.11
580	3.55	2.89	0.66	0.19	26.74	1.12	1.13	1.11
590	3.63	2.82	0.81	0.19	26.43	1.12	1.13	1.11
600	3.71	2.76	0.94	0.19	26.12	1.12	1.13	1.12
610	3.78	2.71	1.08	0.18	25.87	1.13	1.13	1.12
620	3.86	2.64	1.22	0.19	25.64	1.13	1.13	1.12
630	3.94	2.59	1.35	0.15	25.40	1.13	1.13	1.12
640	4.01	2.54	1.48	0.15	25.14	1.13	1.13	1.12
650	4.10	2.49	1.61	0.16	24.86	1.13	1.13	1.12
700	4.47	2.26	2.22	0.11	23.73	1.14	1.14	1.13
750	4.86	2.07	2.79	0.00	22.75	1.14	1.14	1.14
800	5.22	1.91	3.31	0.08	21.79	1.15	1.15	1.14
850	5.55	1.77	3.79	0.12	20.92	1.15	1.15	1.15
900	5.87	1.65	4.21	0.05	20.15	1.16	1.15	1.15
950	6.18	1.56	4.62	0.22	19.46	1.16	1.16	1.16
1000	6.49	1.49	5.00	0.58	18.81	1.17	1.16	1.17
1050	6.80	1.43	5.37	0.90	18.24	1.18	1.17	1.17
1100	7.07	1.38	5.69	0.99	17.68	1.19	1.17	1.18
1150	7.32	1.32	6.00	1.22	17.19	1.20	1.18	1.19
1200	7.57	1.29	6.28	1.62	16.72	1.21	1.19	1.20
1250	7.81	1.26	6.55	2.06	16.25	1.22	1.21	1.21
1300	8.02	1.24	6.78	2.35	15.81	1.24	1.22	1.22
1350	8.23	1.22	7.00	2.63	15.41	1.25	1.24	1.23
1400	8.42	1.22	7.20	3.12	15.03	1.27	1.26	1.25
1450	8.61	1.22	7.39	3.62	14.67	1.29	1.29	1.27
1500	8.78	1.22	7.56	4.51	14.30	1.31	1.31	1.29
1600	9.10	1.24	7.86	6.14	13.67	1.36	1.36	1.33

¹ Total Loss = Insertion Loss+ 3dB Splitter Loss

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