

2 Way-90° Power Splitter/Combiner

HPQ-06W

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	0.75	8.83	8.08	0.56	31.78	1.03	1.03	1.01
250	1.07	7.23	6.15	0.52	30.62	1.04	1.05	1.02
300	1.45	6.03	4.58	0.45	29.88	1.06	1.06	1.03
350	1.83	5.10	3.26	0.41	29.37	1.07	1.07	1.04
400	2.24	4.36	2.12	0.34	29.00	1.08	1.08	1.06
450	2.66	3.77	1.11	0.27	28.59	1.09	1.09	1.07
460	2.75	3.67	0.92	0.25	28.51	1.10	1.10	1.07
470	2.83	3.57	0.74	0.26	28.40	1.10	1.10	1.08
480	2.92	3.47	0.55	0.24	28.29	1.10	1.10	1.08
490	3.00	3.38	0.38	0.23	28.18	1.10	1.10	1.08
500	3.09	3.29	0.21	0.23	28.08	1.10	1.10	1.08
510	3.17	3.21	0.05	0.18	27.96	1.11	1.11	1.09
520	3.25	3.13	0.13	0.19	27.86	1.11	1.11	1.09
530	3.33	3.05	0.28	0.17	27.74	1.11	1.11	1.09
540	3.43	2.98	0.45	0.13	27.63	1.11	1.11	1.09
550	3.50	2.91	0.60	0.12	27.49	1.12	1.11	1.10
560	3.59	2.83	0.76	0.13	27.37	1.12	1.11	1.10
570	3.68	2.77	0.91	0.10	27.23	1.12	1.12	1.10
580	3.76	2.71	1.05	0.08	27.09	1.12	1.12	1.10
590	3.84	2.65	1.20	0.07	26.94	1.12	1.12	1.10
600	3.93	2.58	1.34	0.07	26.78	1.12	1.12	1.11
610	4.00	2.53	1.48	0.07	26.62	1.13	1.12	1.11
620	4.09	2.47	1.62	0.03	26.47	1.13	1.13	1.11
630	4.17	2.42	1.75	0.01	26.30	1.13	1.13	1.11
640	4.25	2.37	1.88	0.02	26.15	1.13	1.13	1.12
650	4.33	2.32	2.01	0.01	25.98	1.13	1.13	1.12
700	4.73	2.10	2.64	0.13	25.16	1.14	1.14	1.13
750	5.12	1.91	3.21	0.24	24.31	1.15	1.15	1.14
800	5.50	1.76	3.75	0.36	23.50	1.16	1.16	1.15
850	5.86	1.62	4.24	0.52	22.74	1.17	1.16	1.16
900	6.22	1.51	4.70	0.67	21.99	1.18	1.17	1.16
950	6.56	1.41	5.15	0.85	21.31	1.18	1.18	1.17
1000	6.89	1.34	5.55	1.06	20.67	1.19	1.20	1.18
1050	7.21	1.27	5.94	1.30	20.07	1.20	1.21	1.19
1100	7.51	1.21	6.30	1.59	19.51	1.21	1.22	1.20
1150	7.79	1.16	6.63	1.86	18.97	1.22	1.24	1.21
1200	8.08	1.12	6.96	2.21	18.46	1.24	1.26	1.22
1250	8.35	1.09	7.26	2.59	18.01	1.25	1.27	1.24
1300	8.60	1.06	7.54	3.03	17.56	1.26	1.29	1.25
1350	8.84	1.04	7.80	3.51	17.12	1.27	1.31	1.26
1400	9.08	1.03	8.05	4.01	16.72	1.29	1.34	1.28
1450	9.31	1.02	8.29	4.60	16.35	1.30	1.36	1.29
1500	9.52	1.01	8.51	5.22	15.97	1.32	1.38	1.31
1600	9.91	1.02	8.89	6.69	15.29	1.36	1.44	1.34

¹Total Loss = Insertion Loss + 3dB Splitter Loss



2 Way-90° Power Splitter/Combiner

HPQ-06W

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	0.68	8.96	8.28	0.01	33.94	1.05	1.05	1.03
250	0.99	7.35	6.35	0.12	32.32	1.06	1.06	1.03
300	1.34	6.13	4.79	0.26	31.19	1.07	1.07	1.04
350	1.72	5.17	3.45	0.37	30.34	1.08	1.08	1.05
400	2.11	4.42	2.31	0.52	29.63	1.09	1.09	1.06
450	2.52	3.82	1.30	0.66	28.83	1.10	1.10	1.07
460	2.60	3.71	1.11	0.68	28.67	1.10	1.10	1.07
470	2.68	3.61	0.93	0.69	28.47	1.10	1.11	1.08
480	2.77	3.51	0.74	0.73	28.29	1.11	1.11	1.08
490	2.85	3.42	0.57	0.76	28.11	1.11	1.11	1.08
500	2.93	3.33	0.40	0.78	27.93	1.11	1.11	1.08
510	3.02	3.24	0.23	0.82	27.76	1.11	1.11	1.09
520	3.09	3.16	0.06	0.85	27.59	1.11	1.11	1.09
530	3.18	3.08	0.10	0.88	27.43	1.12	1.11	1.09
540	3.27	3.01	0.26	0.93	27.26	1.12	1.12	1.09
550	3.34	2.93	0.41	0.96	27.09	1.12	1.12	1.10
560	3.43	2.86	0.57	0.97	26.93	1.12	1.12	1.10
570	3.51	2.79	0.72	1.01	26.76	1.12	1.12	1.10
580	3.59	2.73	0.86	1.06	26.59	1.12	1.12	1.10
590	3.68	2.67	1.01	1.09	26.40	1.12	1.12	1.11
600	3.75	2.60	1.14	1.09	26.24	1.13	1.13	1.11
610	3.83	2.54	1.30	1.12	26.06	1.13	1.13	1.11
620	3.91	2.48	1.43	1.15	25.90	1.13	1.13	1.11
630	3.99	2.43	1.56	1.19	25.71	1.13	1.13	1.11
640	4.07	2.38	1.70	1.24	25.55	1.13	1.13	1.12
650	4.15	2.33	1.82	1.24	25.37	1.13	1.13	1.12
700	4.54	2.10	2.45	1.47	24.52	1.14	1.14	1.13
750	4.93	1.91	3.02	1.63	23.64	1.15	1.14	1.14
800	5.30	1.75	3.55	1.86	22.87	1.16	1.15	1.15
850	5.66	1.61	4.06	2.08	22.15	1.17	1.16	1.16
900	6.01	1.49	4.52	2.30	21.45	1.18	1.17	1.17
950	6.34	1.38	4.96	2.58	20.82	1.18	1.18	1.17
1000	6.67	1.30	5.37	2.84	20.21	1.19	1.19	1.18
1050	6.98	1.23	5.75	3.19	19.64	1.20	1.20	1.19
1100	7.28	1.17	6.11	3.56	19.11	1.21	1.22	1.20
1150	7.56	1.11	6.45	3.91	18.61	1.22	1.23	1.21
1200	7.85	1.07	6.78	4.34	18.13	1.23	1.25	1.22
1250	8.11	1.03	7.08	4.79	17.69	1.24	1.27	1.23
1300	8.37	1.00	7.37	5.30	17.27	1.25	1.29	1.24
1350	8.60	0.98	7.62	5.85	16.84	1.27	1.31	1.26
1400	8.84	0.96	7.88	6.43	16.46	1.28	1.33	1.27
1450	9.06	0.95	8.11	7.05	16.10	1.29	1.36	1.28
1500	9.28	0.94	8.34	7.75	15.75	1.31	1.38	1.30
1600	9.66	0.93	8.73	9.34	15.09	1.35	1.44	1.33

¹Total Loss = Insertion Loss + 3dB Splitter Loss

REV. X2
HPQ-06W
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Page 2 of 3



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2 Way-90° Power Splitter/Combiner

HPQ-06W

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	0.76	8.91	8.15	0.65	32.91	1.04	1.04	1.02
250	1.08	7.33	6.24	0.64	31.79	1.05	1.05	1.03
300	1.45	6.12	4.67	0.56	31.04	1.06	1.06	1.04
350	1.84	5.19	3.35	0.54	30.43	1.07	1.07	1.05
400	2.24	4.44	2.20	0.48	29.91	1.09	1.08	1.06
450	2.66	3.85	1.19	0.42	29.31	1.10	1.09	1.07
460	2.74	3.75	1.01	0.41	29.20	1.10	1.09	1.07
470	2.83	3.65	0.82	0.41	29.03	1.10	1.09	1.08
480	2.91	3.55	0.64	0.41	28.88	1.10	1.10	1.08
490	3.00	3.46	0.46	0.40	28.73	1.10	1.10	1.08
500	3.08	3.37	0.30	0.38	28.59	1.11	1.10	1.08
510	3.17	3.29	0.13	0.36	28.45	1.11	1.10	1.09
520	3.24	3.21	0.04	0.36	28.30	1.11	1.10	1.09
530	3.33	3.13	0.20	0.33	28.15	1.11	1.11	1.09
540	3.42	3.06	0.36	0.32	27.99	1.11	1.11	1.09
550	3.50	2.99	0.51	0.31	27.82	1.12	1.11	1.10
560	3.58	2.91	0.67	0.30	27.67	1.12	1.11	1.10
570	3.67	2.85	0.82	0.27	27.50	1.12	1.11	1.10
580	3.75	2.79	0.96	0.26	27.33	1.12	1.11	1.10
590	3.84	2.73	1.11	0.23	27.13	1.12	1.12	1.10
600	3.92	2.66	1.25	0.26	26.95	1.12	1.12	1.11
610	3.99	2.61	1.39	0.24	26.77	1.13	1.12	1.11
620	4.08	2.55	1.53	0.23	26.59	1.13	1.12	1.11
630	4.16	2.50	1.66	0.19	26.40	1.13	1.12	1.11
640	4.24	2.44	1.80	0.18	26.22	1.13	1.12	1.11
650	4.32	2.40	1.92	0.19	26.03	1.13	1.13	1.12
700	4.72	2.17	2.55	0.06	25.13	1.14	1.13	1.13
750	5.11	1.99	3.12	0.02	24.20	1.15	1.14	1.13
800	5.49	1.83	3.66	0.14	23.38	1.15	1.15	1.14
850	5.85	1.70	4.15	0.27	22.59	1.16	1.16	1.15
900	6.20	1.58	4.61	0.40	21.84	1.17	1.17	1.16
950	6.54	1.48	5.06	0.58	21.15	1.17	1.18	1.17
1000	6.87	1.41	5.46	0.81	20.49	1.18	1.19	1.18
1050	7.19	1.34	5.85	1.02	19.91	1.19	1.20	1.19
1100	7.49	1.29	6.20	1.34	19.35	1.20	1.22	1.20
1150	7.78	1.24	6.54	1.59	18.82	1.21	1.23	1.21
1200	8.06	1.20	6.86	1.94	18.33	1.22	1.25	1.22
1250	8.33	1.16	7.17	2.35	17.88	1.23	1.27	1.23
1300	8.59	1.14	7.45	2.78	17.44	1.25	1.29	1.24
1350	8.83	1.12	7.71	3.23	17.01	1.26	1.31	1.26
1400	9.07	1.11	7.97	3.75	16.62	1.27	1.33	1.27
1450	9.30	1.10	8.20	4.29	16.26	1.29	1.35	1.28
1500	9.52	1.09	8.43	4.94	15.91	1.31	1.38	1.30
1600	9.93	1.10	8.83	6.41	15.25	1.35	1.43	1.34

¹Total Loss = Insertion Loss + 3dB Splitter Loss

