

2 Way-90° Power Splitter/Combiner

HPQ-07

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
250	0.81	8.37	7.55	0.24	30.76	1.04	1.05	1.03
300	1.09	7.08	5.99	0.18	29.88	1.05	1.06	1.04
350	1.41	6.06	4.65	0.13	29.29	1.06	1.07	1.05
400	1.74	5.24	3.50	0.07	28.88	1.07	1.09	1.07
500	2.44	4.03	1.59	0.05	28.29	1.09	1.11	1.10
510	2.52	3.93	1.42	0.04	28.22	1.09	1.11	1.10
520	2.58	3.84	1.25	0.06	28.17	1.09	1.12	1.11
530	2.66	3.75	1.09	0.09	28.11	1.10	1.12	1.11
540	2.73	3.66	0.93	0.12	28.03	1.10	1.12	1.11
550	2.80	3.58	0.78	0.12	27.97	1.10	1.12	1.12
560	2.87	3.49	0.62	0.15	27.87	1.10	1.12	1.12
570	2.95	3.41	0.46	0.16	27.79	1.11	1.13	1.12
580	3.02	3.34	0.32	0.18	27.69	1.11	1.13	1.12
590	3.10	3.27	0.17	0.18	27.59	1.11	1.13	1.13
600	3.17	3.19	0.03	0.20	27.49	1.11	1.13	1.13
610	3.23	3.13	0.11	0.21	27.38	1.11	1.14	1.13
620	3.31	3.06	0.25	0.26	27.27	1.12	1.14	1.14
630	3.39	3.00	0.39	0.27	27.15	1.12	1.14	1.14
640	3.45	2.94	0.52	0.29	27.04	1.12	1.14	1.14
650	3.53	2.88	0.65	0.29	26.91	1.12	1.14	1.14
660	3.60	2.82	0.78	0.31	26.77	1.12	1.15	1.15
670	3.67	2.76	0.91	0.32	26.64	1.13	1.15	1.15
680	3.74	2.71	1.03	0.36	26.49	1.13	1.15	1.15
690	3.81	2.65	1.15	0.38	26.36	1.13	1.15	1.15
700	3.88	2.61	1.28	0.39	26.23	1.13	1.15	1.16
710	3.96	2.55	1.41	0.42	26.07	1.13	1.16	1.16
720	4.03	2.51	1.52	0.45	25.92	1.14	1.16	1.16
730	4.09	2.46	1.63	0.47	25.77	1.14	1.16	1.16
740	4.17	2.42	1.75	0.49	25.63	1.14	1.16	1.17
750	4.24	2.38	1.86	0.50	25.48	1.14	1.16	1.17
800	4.59	2.18	2.41	0.63	24.70	1.15	1.17	1.18
850	4.92	2.02	2.91	0.77	23.91	1.16	1.18	1.19
900	5.25	1.87	3.38	0.93	23.16	1.17	1.19	1.20
950	5.57	1.74	3.83	1.11	22.44	1.18	1.20	1.21
1000	5.88	1.63	4.25	1.31	21.76	1.19	1.21	1.22
1050	6.19	1.54	4.65	1.53	21.11	1.20	1.22	1.23
1100	6.48	1.47	5.01	1.74	20.49	1.21	1.24	1.24
1150	6.77	1.40	5.37	2.07	19.93	1.22	1.25	1.25
1200	7.04	1.34	5.70	2.39	19.38	1.23	1.27	1.27
1250	7.32	1.29	6.03	2.70	18.86	1.25	1.28	1.28
1300	7.57	1.25	6.32	3.06	18.36	1.26	1.30	1.29
1350	7.82	1.21	6.61	3.49	17.90	1.27	1.32	1.30
1400	8.05	1.19	6.87	3.93	17.46	1.29	1.33	1.31
1450	8.29	1.16	7.12	4.39	17.04	1.30	1.36	1.33
1500	8.51	1.15	7.36	4.93	16.64	1.32	1.38	1.34
1600	8.93	1.13	7.80	6.11	15.90	1.35	1.42	1.37

¹Total Loss = Insertion Loss + 3dB Splitter Loss

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2 Way-90° Power Splitter/Combiner

HPQ-07

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
250	0.74	8.44	7.69	0.29	31.87	1.05	1.06	1.04
300	1.02	7.14	6.12	0.40	30.81	1.06	1.07	1.04
350	1.32	6.11	4.79	0.56	30.05	1.07	1.08	1.06
400	1.64	5.28	3.64	0.69	29.55	1.08	1.09	1.07
500	2.33	4.06	1.73	1.00	28.58	1.09	1.12	1.10
510	2.41	3.95	1.55	0.99	28.46	1.10	1.12	1.11
520	2.47	3.86	1.38	1.06	28.36	1.10	1.12	1.11
530	2.54	3.77	1.22	1.10	28.26	1.10	1.12	1.11
540	2.62	3.68	1.06	1.14	28.12	1.10	1.13	1.12
550	2.68	3.59	0.91	1.16	28.01	1.11	1.13	1.12
560	2.76	3.51	0.75	1.17	27.87	1.11	1.13	1.12
570	2.83	3.43	0.60	1.22	27.75	1.11	1.13	1.12
580	2.90	3.35	0.45	1.25	27.61	1.11	1.14	1.13
590	2.97	3.28	0.31	1.28	27.47	1.11	1.14	1.13
600	3.05	3.20	0.16	1.33	27.35	1.11	1.14	1.13
610	3.11	3.14	0.02	1.36	27.21	1.12	1.14	1.14
620	3.18	3.07	0.11	1.41	27.06	1.12	1.14	1.14
630	3.26	3.00	0.25	1.44	26.93	1.12	1.14	1.14
640	3.32	2.94	0.39	1.47	26.79	1.12	1.14	1.14
650	3.40	2.88	0.52	1.47	26.65	1.12	1.14	1.15
660	3.47	2.82	0.64	1.53	26.47	1.13	1.15	1.15
670	3.54	2.76	0.78	1.56	26.33	1.13	1.15	1.15
680	3.61	2.71	0.90	1.62	26.17	1.13	1.15	1.15
690	3.68	2.65	1.02	1.65	26.03	1.13	1.15	1.16
700	3.74	2.61	1.14	1.70	25.88	1.13	1.15	1.16
710	3.82	2.56	1.26	1.73	25.71	1.14	1.16	1.16
720	3.89	2.51	1.38	1.74	25.52	1.14	1.16	1.16
730	3.95	2.46	1.49	1.81	25.39	1.14	1.16	1.17
740	4.03	2.41	1.62	1.85	25.25	1.14	1.16	1.17
750	4.09	2.37	1.73	1.88	25.09	1.14	1.16	1.17
800	4.43	2.17	2.27	2.09	24.28	1.15	1.17	1.18
850	4.77	2.00	2.78	2.31	23.49	1.16	1.18	1.20
900	5.09	1.85	3.24	2.57	22.75	1.17	1.19	1.21
950	5.41	1.72	3.69	2.84	22.07	1.18	1.20	1.22
1000	5.72	1.61	4.11	3.13	21.42	1.19	1.21	1.22
1050	6.02	1.51	4.51	3.44	20.79	1.20	1.22	1.24
1100	6.31	1.43	4.88	3.80	20.20	1.21	1.23	1.24
1150	6.58	1.36	5.22	4.15	19.64	1.22	1.25	1.26
1200	6.86	1.29	5.57	4.52	19.11	1.23	1.26	1.27
1250	7.13	1.24	5.89	4.95	18.60	1.25	1.28	1.27
1300	7.38	1.19	6.18	5.38	18.12	1.26	1.29	1.28
1350	7.62	1.16	6.46	5.89	17.67	1.27	1.31	1.30
1400	7.85	1.13	6.72	6.40	17.24	1.28	1.33	1.31
1450	8.09	1.10	6.99	6.92	16.83	1.30	1.35	1.32
1500	8.31	1.08	7.23	7.56	16.44	1.32	1.38	1.34
1600	8.72	1.06	7.66	8.86	15.72	1.35	1.42	1.37

¹Total Loss = Insertion Loss + 3dB Splitter Loss

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2 Way-90° Power Splitter/Combiner

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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. From 90° (deg.)	ISOLATION (dB) 1-2	VSWR (:1)		
	S-1	S-2				S	1	2
250	0.82	8.43	7.60	0.35	31.50	1.04	1.05	1.03
300	1.11	7.15	6.04	0.31	30.71	1.05	1.06	1.04
350	1.42	6.13	4.71	0.26	30.13	1.06	1.07	1.05
400	1.75	5.31	3.56	0.19	29.69	1.07	1.08	1.07
500	2.45	4.09	1.65	0.10	28.90	1.09	1.11	1.10
510	2.52	4.00	1.48	0.12	28.81	1.09	1.11	1.10
520	2.59	3.90	1.31	0.08	28.73	1.09	1.11	1.10
530	2.67	3.81	1.14	0.06	28.65	1.10	1.12	1.11
540	2.74	3.73	0.99	0.03	28.54	1.10	1.12	1.11
550	2.81	3.64	0.83	0.03	28.44	1.10	1.12	1.11
560	2.88	3.56	0.68	0.02	28.31	1.10	1.12	1.12
570	2.95	3.48	0.53	0.00	28.20	1.10	1.12	1.12
580	3.02	3.41	0.38	0.02	28.09	1.11	1.13	1.12
590	3.10	3.33	0.23	0.02	27.96	1.11	1.13	1.12
600	3.17	3.25	0.09	0.04	27.83	1.11	1.13	1.13
610	3.24	3.19	0.06	0.06	27.69	1.11	1.13	1.13
620	3.31	3.12	0.19	0.08	27.55	1.11	1.13	1.13
630	3.39	3.06	0.33	0.09	27.41	1.12	1.14	1.13
640	3.46	3.00	0.46	0.12	27.26	1.12	1.14	1.14
650	3.53	2.94	0.59	0.10	27.12	1.12	1.14	1.14
660	3.60	2.88	0.72	0.14	26.93	1.12	1.14	1.14
670	3.67	2.82	0.85	0.13	26.78	1.12	1.14	1.14
680	3.74	2.77	0.97	0.18	26.61	1.12	1.15	1.15
690	3.82	2.72	1.09	0.20	26.46	1.13	1.15	1.15
700	3.88	2.67	1.22	0.22	26.30	1.13	1.15	1.15
710	3.96	2.62	1.34	0.23	26.12	1.13	1.15	1.15
720	4.03	2.57	1.46	0.22	25.91	1.13	1.15	1.16
730	4.09	2.52	1.57	0.26	25.78	1.13	1.16	1.16
740	4.17	2.48	1.69	0.28	25.62	1.14	1.16	1.16
750	4.24	2.44	1.80	0.29	25.45	1.14	1.16	1.16
800	4.58	2.24	2.35	0.42	24.59	1.15	1.17	1.17
850	4.92	2.08	2.85	0.55	23.77	1.16	1.18	1.19
900	5.25	1.92	3.33	0.70	22.97	1.16	1.19	1.19
950	5.57	1.80	3.77	0.85	22.24	1.17	1.20	1.21
1000	5.88	1.70	4.18	1.02	21.57	1.18	1.21	1.22
1050	6.19	1.60	4.59	1.25	20.91	1.19	1.22	1.23
1100	6.49	1.53	4.96	1.52	20.30	1.20	1.23	1.24
1150	6.77	1.46	5.31	1.79	19.74	1.22	1.25	1.25
1200	7.04	1.40	5.64	2.06	19.21	1.23	1.26	1.26
1250	7.32	1.36	5.96	2.43	18.71	1.24	1.28	1.27
1300	7.58	1.31	6.27	2.78	18.22	1.26	1.29	1.28
1350	7.83	1.28	6.55	3.19	17.78	1.27	1.31	1.30
1400	8.06	1.25	6.81	3.63	17.35	1.28	1.33	1.31
1450	8.31	1.23	7.08	4.08	16.95	1.30	1.35	1.32
1500	8.53	1.22	7.31	4.61	16.57	1.32	1.37	1.34
1600	8.96	1.21	7.75	5.76	15.85	1.36	1.42	1.38

¹Total Loss = Insertion Loss + 4.8dB Splitter Loss

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