

2 Way-90° Power Splitter/Combiner

HPQ-09+

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
300	0.80	8.43	7.63	0.53	28.83	1.04	1.04	1.02
350	1.04	7.34	6.29	0.50	28.07	1.04	1.05	1.04
400	1.29	6.44	5.15	0.49	27.54	1.05	1.06	1.05
450	1.56	5.70	4.14	0.47	27.19	1.07	1.08	1.07
500	1.84	5.08	3.24	0.46	26.94	1.08	1.09	1.08
550	2.12	4.55	2.43	0.44	26.75	1.09	1.10	1.10
600	2.42	4.09	1.68	0.42	26.58	1.10	1.11	1.11
650	2.71	3.71	0.99	0.39	26.34	1.12	1.12	1.13
660	2.77	3.64	0.87	0.36	26.29	1.12	1.12	1.13
670	2.83	3.57	0.74	0.38	26.25	1.12	1.12	1.13
680	2.89	3.51	0.61	0.35	26.19	1.12	1.13	1.14
690	2.95	3.44	0.49	0.33	26.13	1.12	1.13	1.14
700	3.01	3.38	0.37	0.33	26.07	1.13	1.13	1.14
710	3.07	3.32	0.25	0.34	26.01	1.13	1.13	1.15
720	3.14	3.26	0.12	0.31	25.96	1.13	1.13	1.15
730	3.19	3.20	0.01	0.30	25.89	1.13	1.14	1.15
740	3.25	3.14	0.10	0.29	25.82	1.14	1.14	1.15
750	3.31	3.09	0.22	0.29	25.74	1.14	1.14	1.16
760	3.38	3.04	0.34	0.29	25.66	1.14	1.14	1.16
770	3.43	2.98	0.44	0.26	25.59	1.14	1.14	1.16
780	3.49	2.94	0.55	0.27	25.50	1.15	1.15	1.16
790	3.55	2.89	0.66	0.26	25.40	1.15	1.15	1.17
800	3.61	2.84	0.78	0.26	25.31	1.15	1.15	1.17
810	3.67	2.79	0.87	0.23	25.22	1.15	1.15	1.17
820	3.73	2.75	0.98	0.24	25.13	1.16	1.15	1.17
830	3.79	2.70	1.09	0.21	25.03	1.16	1.15	1.18
840	3.84	2.67	1.17	0.18	24.94	1.16	1.16	1.18
850	3.90	2.63	1.28	0.19	24.83	1.16	1.16	1.18
900	4.19	2.43	1.75	0.12	24.33	1.18	1.17	1.19
950	4.48	2.27	2.21	0.00	23.80	1.19	1.18	1.20
1000	4.76	2.12	2.64	0.06	23.27	1.20	1.18	1.21
1050	5.04	2.00	3.05	0.19	22.74	1.21	1.19	1.22
1100	5.31	1.88	3.43	0.33	22.21	1.23	1.20	1.23
1150	5.58	1.78	3.80	0.44	21.70	1.24	1.21	1.24
1200	5.83	1.69	4.15	0.59	21.22	1.25	1.23	1.25
1250	6.09	1.61	4.48	0.74	20.73	1.26	1.24	1.26
1300	6.33	1.54	4.80	0.91	20.26	1.28	1.25	1.27
1350	6.58	1.47	5.10	1.11	19.84	1.29	1.26	1.28
1400	6.82	1.43	5.39	1.30	19.42	1.30	1.28	1.29
1450	7.04	1.38	5.66	1.50	19.04	1.32	1.29	1.31
1500	7.27	1.34	5.93	1.79	18.67	1.33	1.31	1.32
1600	7.71	1.27	6.44	2.32	17.97	1.36	1.34	1.34
1700	8.13	1.23	6.91	3.00	17.33	1.39	1.38	1.37
1800	8.54	1.20	7.34	3.64	16.71	1.42	1.41	1.40
1900	8.91	1.19	7.72	4.42	16.23	1.46	1.46	1.44
2000	9.27	1.19	8.08	5.48	15.76	1.51	1.50	1.49

¹Total Loss = Insertion Loss + 3dB Splitter Loss

REV. X2
HPQ-09+
100623
Page 1 of 3



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2 Way-90° Power Splitter/Combiner

HPQ-09+

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
300	0.73	8.51	7.78	0.16	29.83	1.05	1.05	1.03
350	0.95	7.41	6.45	0.27	28.99	1.05	1.06	1.04
400	1.19	6.50	5.31	0.38	28.39	1.06	1.07	1.05
450	1.45	5.74	4.29	0.50	27.96	1.07	1.08	1.07
500	1.73	5.11	3.38	0.58	27.55	1.08	1.09	1.08
550	2.00	4.57	2.57	0.72	27.21	1.09	1.10	1.10
600	2.29	4.11	1.83	0.83	26.86	1.10	1.11	1.12
650	2.58	3.72	1.13	0.97	26.49	1.12	1.12	1.13
660	2.63	3.65	1.02	1.00	26.41	1.12	1.12	1.13
670	2.69	3.58	0.89	0.99	26.35	1.12	1.12	1.14
680	2.75	3.52	0.76	1.05	26.27	1.12	1.12	1.14
690	2.81	3.45	0.64	1.09	26.19	1.13	1.13	1.14
700	2.87	3.38	0.51	1.13	26.09	1.13	1.13	1.14
710	2.93	3.32	0.39	1.14	26.00	1.13	1.13	1.15
720	2.99	3.26	0.27	1.17	25.95	1.13	1.13	1.15
730	3.05	3.20	0.15	1.20	25.86	1.14	1.13	1.15
740	3.11	3.15	0.04	1.24	25.77	1.14	1.14	1.16
750	3.17	3.09	0.08	1.25	25.67	1.14	1.14	1.16
760	3.22	3.03	0.19	1.26	25.56	1.14	1.14	1.16
770	3.28	2.98	0.30	1.32	25.48	1.15	1.14	1.16
780	3.33	2.94	0.40	1.32	25.36	1.15	1.14	1.17
790	3.39	2.88	0.51	1.36	25.25	1.15	1.15	1.17
800	3.45	2.84	0.62	1.40	25.15	1.15	1.15	1.17
810	3.51	2.79	0.72	1.43	25.03	1.15	1.15	1.17
820	3.57	2.74	0.83	1.45	24.92	1.16	1.15	1.18
830	3.63	2.70	0.93	1.49	24.81	1.16	1.15	1.18
840	3.68	2.66	1.02	1.53	24.70	1.16	1.15	1.18
850	3.74	2.61	1.13	1.54	24.58	1.16	1.15	1.18
900	4.03	2.42	1.60	1.71	24.03	1.18	1.16	1.20
950	4.31	2.24	2.06	1.92	23.49	1.19	1.17	1.21
1000	4.59	2.10	2.49	2.10	22.95	1.20	1.18	1.22
1050	4.85	1.97	2.89	2.32	22.43	1.21	1.19	1.22
1100	5.13	1.84	3.28	2.56	21.90	1.22	1.20	1.23
1150	5.39	1.74	3.65	2.79	21.40	1.24	1.21	1.25
1200	5.64	1.65	3.99	3.02	20.92	1.25	1.22	1.25
1250	5.88	1.56	4.32	3.29	20.45	1.26	1.23	1.26
1300	6.13	1.49	4.65	3.55	19.97	1.27	1.25	1.27
1350	6.37	1.42	4.95	3.85	19.54	1.29	1.26	1.28
1400	6.61	1.37	5.24	4.14	19.13	1.30	1.27	1.29
1450	6.83	1.31	5.52	4.43	18.75	1.31	1.29	1.30
1500	7.05	1.27	5.78	4.81	18.40	1.33	1.31	1.31
1600	7.49	1.20	6.29	5.54	17.72	1.35	1.34	1.34
1700	7.90	1.15	6.75	6.39	17.10	1.38	1.38	1.36
1800	8.32	1.11	7.21	7.20	16.45	1.41	1.42	1.39
1900	8.66	1.10	7.56	8.21	16.07	1.45	1.47	1.43
2000	9.03	1.09	7.94	9.46	15.56	1.49	1.51	1.46

¹Total Loss = Insertion Loss + 3dB Splitter Loss

REV. X2
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Page 2 of 3



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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
300	0.82	8.51	7.69	0.69	29.60	1.03	1.04	1.03
350	1.05	7.41	6.36	0.66	28.90	1.04	1.05	1.04
400	1.30	6.51	5.21	0.66	28.41	1.05	1.06	1.05
450	1.57	5.77	4.20	0.68	28.05	1.06	1.08	1.07
500	1.85	5.14	3.29	0.67	27.78	1.07	1.09	1.08
550	2.13	4.61	2.48	0.64	27.55	1.09	1.10	1.10
600	2.43	4.16	1.74	0.64	27.31	1.10	1.11	1.11
650	2.72	3.78	1.05	0.63	26.99	1.11	1.12	1.12
660	2.78	3.70	0.92	0.61	26.90	1.11	1.12	1.12
670	2.84	3.64	0.79	0.64	26.84	1.12	1.12	1.13
680	2.90	3.57	0.67	0.61	26.75	1.12	1.12	1.13
690	2.96	3.51	0.55	0.59	26.67	1.12	1.12	1.13
700	3.02	3.44	0.42	0.58	26.58	1.12	1.13	1.13
710	3.08	3.38	0.30	0.60	26.48	1.12	1.13	1.14
720	3.14	3.32	0.18	0.58	26.41	1.13	1.13	1.14
730	3.20	3.27	0.07	0.57	26.32	1.13	1.13	1.14
740	3.26	3.21	0.05	0.57	26.22	1.13	1.13	1.14
750	3.32	3.15	0.17	0.56	26.11	1.13	1.14	1.15
760	3.38	3.10	0.27	0.57	26.01	1.14	1.14	1.15
770	3.44	3.05	0.38	0.54	25.91	1.14	1.14	1.15
780	3.49	3.01	0.49	0.54	25.80	1.14	1.14	1.15
790	3.55	2.95	0.60	0.55	25.68	1.14	1.14	1.16
800	3.62	2.91	0.71	0.53	25.56	1.15	1.14	1.16
810	3.67	2.86	0.81	0.53	25.45	1.15	1.15	1.16
820	3.74	2.81	0.93	0.53	25.32	1.15	1.15	1.16
830	3.79	2.77	1.02	0.52	25.22	1.15	1.15	1.16
840	3.85	2.73	1.12	0.49	25.10	1.16	1.15	1.17
850	3.91	2.69	1.22	0.52	24.97	1.16	1.15	1.17
900	4.20	2.49	1.70	0.46	24.36	1.17	1.16	1.18
950	4.48	2.33	2.15	0.35	23.77	1.18	1.17	1.19
1000	4.77	2.18	2.59	0.30	23.16	1.19	1.18	1.20
1050	5.04	2.06	2.99	0.17	22.60	1.20	1.19	1.21
1100	5.32	1.94	3.38	0.06	22.04	1.22	1.20	1.22
1150	5.59	1.84	3.75	0.04	21.52	1.23	1.21	1.23
1200	5.84	1.76	4.09	0.19	21.02	1.24	1.22	1.24
1250	6.09	1.67	4.42	0.33	20.54	1.26	1.23	1.26
1300	6.35	1.61	4.74	0.45	20.08	1.27	1.24	1.27
1350	6.59	1.54	5.05	0.65	19.66	1.29	1.26	1.28
1400	6.83	1.49	5.34	0.84	19.27	1.30	1.27	1.29
1450	7.06	1.45	5.61	1.03	18.89	1.31	1.29	1.30
1500	7.29	1.41	5.88	1.30	18.53	1.33	1.30	1.32
1600	7.74	1.34	6.39	1.83	17.87	1.36	1.34	1.34
1700	8.16	1.30	6.86	2.43	17.27	1.39	1.37	1.38
1800	8.60	1.28	7.32	2.88	16.60	1.43	1.41	1.41
1900	8.94	1.28	7.66	3.82	16.27	1.47	1.45	1.45
2000	9.32	1.26	8.06	4.85	15.79	1.51	1.49	1.49

¹Total Loss = Insertion Loss + 3dB Splitter Loss

REV. X2
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Page 3 of 3



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