

2 Way-90° Power Splitter/Combiner

HPQ-10+

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
400	0.90	8.01	7.11	0.41	26.10	1.05	1.04	1.04
500	1.29	6.50	5.20	0.38	24.99	1.07	1.06	1.07
600	1.73	5.38	3.65	0.32	24.20	1.10	1.08	1.10
700	2.18	4.53	2.35	0.18	23.60	1.13	1.10	1.13
750	2.41	4.17	1.76	0.15	23.30	1.15	1.11	1.14
800	2.65	3.87	1.22	0.08	23.01	1.16	1.12	1.16
850	2.88	3.60	0.71	0.01	22.71	1.17	1.13	1.17
860	2.93	3.54	0.61	0.00	22.64	1.18	1.14	1.17
870	2.97	3.50	0.52	0.00	22.57	1.18	1.14	1.18
880	3.02	3.44	0.43	0.03	22.50	1.18	1.14	1.18
890	3.07	3.40	0.33	0.06	22.44	1.19	1.14	1.18
900	3.11	3.36	0.24	0.05	22.39	1.19	1.14	1.18
910	3.16	3.30	0.14	0.06	22.32	1.19	1.15	1.19
920	3.21	3.26	0.05	0.11	22.26	1.19	1.15	1.19
930	3.25	3.22	0.04	0.15	22.18	1.20	1.15	1.19
940	3.30	3.17	0.12	0.13	22.11	1.20	1.15	1.20
950	3.34	3.14	0.20	0.15	22.04	1.20	1.16	1.20
960	3.39	3.10	0.30	0.17	21.98	1.20	1.16	1.20
970	3.44	3.06	0.38	0.20	21.92	1.21	1.16	1.20
980	3.48	3.02	0.46	0.22	21.86	1.21	1.16	1.21
990	3.53	2.98	0.55	0.23	21.79	1.21	1.17	1.21
1000	3.58	2.94	0.63	0.24	21.71	1.21	1.17	1.21
1010	3.63	2.91	0.71	0.26	21.63	1.22	1.17	1.21
1020	3.67	2.88	0.80	0.30	21.56	1.22	1.17	1.22
1030	3.72	2.84	0.87	0.32	21.50	1.22	1.17	1.22
1040	3.76	2.80	0.96	0.32	21.45	1.22	1.18	1.22
1050	3.80	2.78	1.03	0.34	21.37	1.23	1.18	1.22
1100	4.03	2.62	1.41	0.47	21.01	1.24	1.19	1.24
1200	4.48	2.36	2.12	0.73	20.31	1.27	1.22	1.26
1300	4.91	2.15	2.76	1.08	19.64	1.29	1.25	1.28
1400	5.33	1.98	3.35	1.43	19.01	1.32	1.29	1.31
1500	5.74	1.84	3.90	1.85	18.43	1.35	1.32	1.34
1600	6.13	1.73	4.40	2.33	17.89	1.38	1.36	1.36
1700	6.51	1.65	4.87	2.87	17.40	1.41	1.41	1.40
1800	6.89	1.59	5.30	3.45	16.93	1.45	1.45	1.43
1900	7.25	1.55	5.70	4.15	16.52	1.49	1.50	1.47
2000	7.60	1.51	6.09	4.89	16.16	1.53	1.55	1.51

¹Total Loss = Insertion Loss + 3dB Splitter Loss

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2 Way-90° Power Splitter/Combiner

HPQ-10+

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
400	0.82	8.10	7.28	0.73	26.86	1.06	1.05	1.04
500	1.20	6.57	5.37	1.02	25.66	1.08	1.07	1.07
600	1.61	5.43	3.82	1.33	24.70	1.10	1.09	1.10
700	2.05	4.56	2.51	1.73	23.93	1.13	1.11	1.13
750	2.28	4.20	1.93	1.88	23.55	1.14	1.11	1.14
800	2.50	3.89	1.39	2.08	23.18	1.16	1.12	1.16
850	2.73	3.61	0.88	2.27	22.80	1.17	1.13	1.17
860	2.78	3.56	0.79	2.32	22.70	1.17	1.13	1.17
870	2.82	3.52	0.69	2.36	22.61	1.18	1.14	1.18
880	2.87	3.46	0.59	2.39	22.53	1.18	1.14	1.18
890	2.91	3.41	0.50	2.44	22.46	1.18	1.14	1.18
900	2.95	3.37	0.41	2.47	22.38	1.19	1.14	1.19
910	3.00	3.32	0.32	2.52	22.29	1.19	1.14	1.19
920	3.05	3.27	0.22	2.57	22.21	1.19	1.15	1.19
930	3.09	3.23	0.13	2.64	22.12	1.20	1.15	1.19
940	3.14	3.19	0.05	2.64	22.02	1.20	1.15	1.20
950	3.18	3.15	0.03	2.70	21.94	1.20	1.15	1.20
960	3.23	3.11	0.13	2.75	21.88	1.20	1.15	1.20
970	3.28	3.06	0.21	2.80	21.80	1.21	1.16	1.20
980	3.32	3.02	0.30	2.84	21.72	1.21	1.16	1.21
990	3.36	2.99	0.38	2.88	21.64	1.21	1.16	1.21
1000	3.41	2.95	0.46	2.93	21.56	1.22	1.16	1.21
1010	3.46	2.91	0.55	2.97	21.48	1.22	1.16	1.21
1020	3.50	2.87	0.63	3.01	21.38	1.22	1.16	1.22
1030	3.55	2.84	0.70	3.08	21.34	1.22	1.17	1.22
1040	3.59	2.80	0.79	3.11	21.27	1.23	1.17	1.22
1050	3.63	2.77	0.86	3.15	21.20	1.23	1.17	1.22
1100	3.86	2.62	1.24	3.42	20.84	1.24	1.19	1.24
1200	4.29	2.34	1.95	3.92	20.11	1.26	1.22	1.26
1300	4.71	2.12	2.60	4.55	19.41	1.29	1.25	1.28
1400	5.13	1.94	3.19	5.15	18.76	1.32	1.28	1.30
1500	5.52	1.80	3.72	5.82	18.16	1.34	1.32	1.33
1600	5.91	1.68	4.22	6.57	17.62	1.37	1.36	1.36
1700	6.28	1.60	4.69	7.35	17.14	1.41	1.41	1.39
1800	6.65	1.52	5.13	8.18	16.69	1.44	1.45	1.42
1900	7.01	1.48	5.53	9.18	16.31	1.48	1.50	1.46
2000	7.38	1.46	5.93	9.89	15.87	1.51	1.55	1.50

¹Total Loss = Insertion Loss + 3dB Splitter Loss

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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
400	0.91	8.14	7.23	0.57	27.18	1.05	1.04	1.04
500	1.30	6.62	5.32	0.57	26.03	1.07	1.06	1.06
600	1.73	5.49	3.76	0.54	25.15	1.09	1.08	1.09
700	2.17	4.63	2.46	0.43	24.38	1.12	1.10	1.12
750	2.40	4.28	1.88	0.42	23.96	1.14	1.11	1.13
800	2.63	3.97	1.34	0.39	23.55	1.15	1.12	1.15
850	2.87	3.70	0.83	0.34	23.13	1.16	1.13	1.16
860	2.91	3.64	0.73	0.33	23.03	1.17	1.13	1.16
870	2.96	3.60	0.63	0.32	22.95	1.17	1.13	1.17
880	3.01	3.54	0.54	0.30	22.86	1.17	1.13	1.17
890	3.05	3.50	0.45	0.29	22.79	1.18	1.14	1.17
900	3.09	3.46	0.36	0.29	22.71	1.18	1.14	1.17
910	3.15	3.40	0.26	0.28	22.63	1.18	1.14	1.18
920	3.19	3.36	0.17	0.24	22.54	1.18	1.14	1.18
930	3.23	3.32	0.08	0.21	22.44	1.19	1.14	1.18
940	3.28	3.27	0.01	0.22	22.34	1.19	1.15	1.19
950	3.33	3.24	0.09	0.21	22.26	1.19	1.15	1.19
960	3.37	3.20	0.18	0.18	22.19	1.20	1.15	1.19
970	3.42	3.16	0.26	0.16	22.11	1.20	1.15	1.19
980	3.47	3.12	0.35	0.14	22.02	1.20	1.16	1.20
990	3.51	3.08	0.44	0.12	21.94	1.20	1.16	1.20
1000	3.56	3.04	0.52	0.11	21.85	1.21	1.16	1.20
1010	3.61	3.01	0.60	0.09	21.76	1.21	1.16	1.20
1020	3.65	2.97	0.68	0.08	21.66	1.21	1.16	1.21
1030	3.70	2.93	0.76	0.05	21.59	1.21	1.17	1.21
1040	3.75	2.90	0.85	0.04	21.52	1.22	1.17	1.21
1050	3.78	2.87	0.92	0.04	21.44	1.22	1.17	1.21
1100	4.01	2.72	1.30	0.09	21.01	1.23	1.18	1.23
1200	4.46	2.45	2.01	0.30	20.20	1.26	1.21	1.25
1300	4.89	2.24	2.66	0.62	19.48	1.29	1.24	1.28
1400	5.32	2.06	3.26	0.91	18.83	1.31	1.28	1.30
1500	5.73	1.93	3.80	1.31	18.26	1.34	1.31	1.33
1600	6.12	1.82	4.30	1.72	17.75	1.37	1.36	1.36
1700	6.51	1.74	4.78	2.20	17.27	1.41	1.40	1.39
1800	6.89	1.67	5.22	2.74	16.83	1.44	1.44	1.43
1900	7.26	1.63	5.63	3.35	16.45	1.49	1.49	1.47
2000	7.63	1.62	6.01	3.65	16.03	1.53	1.53	1.51

¹Total Loss = Insertion Loss + 3dB Splitter Loss

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