

2 Way-90° Power Splitter/Combiner

HPQ-11+

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	0.76	8.90	8.14	0.79	24.33	1.05	1.04	1.06
500	1.09	7.33	6.24	0.81	23.29	1.07	1.06	1.08
600	1.45	6.15	4.69	0.76	22.73	1.10	1.08	1.10
700	1.84	5.23	3.39	0.66	22.50	1.12	1.09	1.12
800	2.23	4.51	2.27	0.59	22.46	1.14	1.11	1.14
900	2.64	3.93	1.28	0.46	22.55	1.16	1.13	1.16
920	2.72	3.83	1.11	0.43	22.57	1.16	1.13	1.16
940	2.80	3.72	0.92	0.41	22.58	1.17	1.13	1.17
960	2.88	3.63	0.75	0.41	22.59	1.17	1.14	1.17
980	2.97	3.54	0.57	0.38	22.60	1.17	1.14	1.17
1000	3.05	3.46	0.42	0.34	22.62	1.18	1.14	1.18
1020	3.12	3.38	0.25	0.29	22.63	1.18	1.15	1.18
1040	3.21	3.30	0.09	0.27	22.65	1.18	1.15	1.18
1060	3.29	3.22	0.07	0.25	22.65	1.19	1.16	1.19
1070	3.33	3.18	0.15	0.25	22.64	1.19	1.16	1.19
1080	3.37	3.15	0.22	0.22	22.64	1.19	1.16	1.19
1100	3.45	3.08	0.37	0.19	22.62	1.20	1.16	1.20
1120	3.53	3.01	0.52	0.15	22.59	1.20	1.17	1.20
1140	3.60	2.95	0.66	0.12	22.58	1.20	1.17	1.20
1160	3.69	2.88	0.81	0.09	22.54	1.21	1.17	1.21
1180	3.77	2.82	0.94	0.04	22.51	1.21	1.18	1.21
1200	3.84	2.76	1.08	0.03	22.46	1.21	1.18	1.22
1300	4.23	2.51	1.73	0.20	22.14	1.23	1.20	1.24
1400	4.62	2.29	2.33	0.45	21.70	1.25	1.22	1.26
1500	4.99	2.12	2.88	0.65	21.13	1.27	1.25	1.28
1600	5.35	1.97	3.37	0.98	20.52	1.29	1.27	1.30
1700	5.70	1.86	3.84	1.32	19.87	1.31	1.30	1.33
1800	6.04	1.77	4.28	1.69	19.22	1.34	1.33	1.36
1900	6.38	1.69	4.69	2.14	18.58	1.38	1.37	1.40
2000	6.70	1.64	5.06	2.60	18.00	1.41	1.41	1.44
2100	7.02	1.61	5.41	3.16	17.45	1.46	1.45	1.49

¹Total Loss = Insertion Loss + 3dB Splitter Loss



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REV. X2
HPQ-11+
100623
Page 1 of 3

2 Way-90° Power Splitter/Combiner

HPQ-11+

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	0.67	9.00	8.34	0.59	25.08	1.04	1.03	1.05
500	0.97	7.40	6.43	0.88	23.97	1.06	1.05	1.07
600	1.32	6.20	4.88	1.18	23.30	1.09	1.06	1.09
700	1.69	5.26	3.58	1.56	22.98	1.11	1.08	1.12
800	2.06	4.53	2.46	1.87	22.92	1.13	1.10	1.14
900	2.45	3.93	1.47	2.28	22.97	1.15	1.12	1.15
920	2.53	3.83	1.30	2.36	22.96	1.15	1.12	1.16
940	2.61	3.72	1.11	2.45	22.96	1.16	1.12	1.16
960	2.69	3.63	0.94	2.52	22.95	1.16	1.13	1.16
980	2.77	3.54	0.77	2.64	22.96	1.16	1.13	1.17
1000	2.85	3.45	0.60	2.68	22.94	1.17	1.13	1.17
1020	2.92	3.37	0.44	2.81	22.96	1.17	1.14	1.17
1040	3.01	3.29	0.28	2.90	22.96	1.17	1.14	1.18
1060	3.09	3.21	0.12	2.96	22.95	1.18	1.14	1.18
1070	3.13	3.17	0.04	3.00	22.95	1.18	1.14	1.18
1080	3.16	3.13	0.03	3.06	22.95	1.18	1.15	1.18
1100	3.24	3.06	0.18	3.14	22.92	1.18	1.15	1.19
1120	3.32	2.98	0.33	3.26	22.88	1.19	1.15	1.19
1140	3.39	2.92	0.48	3.33	22.85	1.19	1.16	1.19
1160	3.47	2.85	0.62	3.41	22.80	1.19	1.16	1.20
1180	3.55	2.80	0.75	3.53	22.75	1.19	1.16	1.20
1200	3.62	2.73	0.89	3.60	22.68	1.20	1.17	1.20
1300	4.00	2.47	1.54	4.12	22.14	1.22	1.19	1.22
1400	4.38	2.24	2.14	4.64	21.50	1.24	1.21	1.24
1500	4.74	2.06	2.68	5.16	20.83	1.25	1.24	1.26
1600	5.09	1.91	3.18	5.80	20.18	1.27	1.27	1.29
1700	5.43	1.79	3.65	6.46	19.47	1.30	1.30	1.32
1800	5.77	1.69	4.09	7.19	18.76	1.33	1.34	1.35
1900	6.11	1.62	4.49	7.93	18.11	1.37	1.38	1.40
2000	6.44	1.56	4.88	8.59	17.55	1.41	1.43	1.44
2100	6.74	1.52	5.22	9.53	17.08	1.46	1.47	1.50

¹Total Loss = Insertion Loss + 3dB Splitter Loss

REV. X2

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100623

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
400	0.79	9.01	8.23	0.88	25.02	1.05	1.04	1.05
500	1.11	7.43	6.32	0.89	24.01	1.07	1.05	1.07
600	1.47	6.25	4.77	0.86	23.49	1.09	1.06	1.08
700	1.86	5.32	3.47	0.77	23.25	1.11	1.08	1.10
800	2.26	4.60	2.34	0.74	23.15	1.13	1.10	1.12
900	2.66	4.02	1.35	0.66	23.10	1.15	1.12	1.15
920	2.74	3.92	1.18	0.65	23.08	1.15	1.12	1.15
940	2.83	3.82	0.99	0.63	23.07	1.16	1.13	1.16
960	2.91	3.73	0.82	0.61	23.05	1.16	1.13	1.16
980	2.99	3.64	0.65	0.56	23.03	1.17	1.13	1.17
1000	3.08	3.55	0.47	0.57	22.99	1.17	1.14	1.17
1020	3.15	3.47	0.31	0.52	22.98	1.18	1.14	1.18
1040	3.24	3.39	0.15	0.45	22.96	1.18	1.15	1.18
1060	3.32	3.32	0.01	0.47	22.92	1.18	1.15	1.18
1070	3.36	3.28	0.08	0.46	22.91	1.19	1.15	1.19
1080	3.40	3.25	0.16	0.43	22.89	1.19	1.15	1.19
1100	3.48	3.18	0.31	0.43	22.84	1.19	1.16	1.19
1120	3.57	3.10	0.46	0.39	22.77	1.20	1.16	1.20
1140	3.64	3.04	0.60	0.37	22.73	1.20	1.17	1.20
1160	3.72	2.98	0.74	0.37	22.66	1.21	1.17	1.21
1180	3.81	2.92	0.89	0.31	22.61	1.21	1.17	1.21
1200	3.88	2.86	1.02	0.29	22.54	1.21	1.18	1.22
1300	4.28	2.61	1.68	0.11	22.14	1.23	1.20	1.24
1400	4.67	2.39	2.28	0.05	21.69	1.25	1.22	1.27
1500	5.04	2.22	2.83	0.21	21.13	1.27	1.24	1.29
1600	5.40	2.07	3.33	0.50	20.56	1.29	1.27	1.31
1700	5.75	1.96	3.79	0.78	19.94	1.31	1.29	1.33
1800	6.09	1.86	4.24	1.09	19.33	1.33	1.32	1.35
1900	6.42	1.79	4.63	1.50	18.71	1.36	1.35	1.38
2000	6.74	1.74	5.00	1.81	18.11	1.39	1.38	1.42
2100	7.05	1.70	5.35	2.45	17.57	1.43	1.42	1.46

¹Total Loss = Insertion Loss + 3dB Splitter Loss

REV. X2

HPQ-11+

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Page 3 of 3



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