

2 Way-90° Power Splitter/Combiner

HPQ-12+

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	0.75	8.91	8.16	0.62	23.99	1.04	1.04	1.04
500	1.09	7.33	6.24	0.65	22.76	1.07	1.07	1.07
550	1.27	6.69	5.43	0.61	22.32	1.08	1.08	1.08
600	1.46	6.14	4.68	0.61	21.97	1.10	1.09	1.10
650	1.64	5.65	4.00	0.59	21.66	1.11	1.10	1.11
700	1.84	5.21	3.37	0.58	21.44	1.12	1.12	1.13
750	2.05	4.84	2.79	0.56	21.26	1.14	1.13	1.14
800	2.25	4.49	2.24	0.53	21.11	1.15	1.15	1.15
850	2.45	4.18	1.73	0.48	21.01	1.16	1.16	1.17
900	2.66	3.91	1.25	0.45	20.90	1.17	1.17	1.18
950	2.88	3.66	0.79	0.42	20.82	1.19	1.19	1.19
960	2.92	3.62	0.70	0.40	20.80	1.19	1.19	1.20
970	2.96	3.57	0.61	0.39	20.78	1.19	1.19	1.20
980	3.00	3.53	0.53	0.40	20.77	1.20	1.20	1.20
990	3.05	3.49	0.44	0.35	20.76	1.20	1.20	1.20
1000	3.09	3.44	0.36	0.35	20.74	1.20	1.20	1.21
1020	3.17	3.35	0.18	0.33	20.71	1.21	1.21	1.21
1030	3.21	3.32	0.11	0.32	20.70	1.21	1.21	1.21
1040	3.25	3.28	0.03	0.32	20.69	1.21	1.22	1.22
1050	3.29	3.24	0.05	0.28	20.67	1.21	1.22	1.22
1060	3.34	3.20	0.14	0.25	20.66	1.21	1.22	1.22
1070	3.39	3.17	0.21	0.27	20.64	1.22	1.22	1.22
1080	3.43	3.13	0.29	0.26	20.63	1.22	1.23	1.23
1090	3.46	3.10	0.37	0.23	20.61	1.22	1.23	1.23
1100	3.50	3.06	0.44	0.22	20.58	1.23	1.23	1.23
1120	3.59	3.00	0.59	0.18	20.56	1.23	1.24	1.24
1140	3.67	2.93	0.74	0.16	20.53	1.23	1.25	1.24
1150	3.71	2.89	0.82	0.12	20.51	1.24	1.25	1.25
1200	3.92	2.75	1.17	0.06	20.42	1.25	1.26	1.26
1250	4.12	2.61	1.52	0.05	20.33	1.26	1.28	1.27
1300	4.33	2.49	1.84	0.18	20.22	1.27	1.30	1.28
1350	4.53	2.38	2.15	0.24	20.12	1.28	1.31	1.29
1400	4.73	2.27	2.46	0.32	20.02	1.29	1.33	1.31
1450	4.93	2.18	2.76	0.47	19.90	1.30	1.35	1.32
1500	5.12	2.09	3.03	0.57	19.76	1.32	1.36	1.33
1600	5.52	1.95	3.57	0.84	19.49	1.34	1.40	1.36
1700	5.89	1.82	4.07	1.15	19.16	1.37	1.44	1.39
1800	6.27	1.73	4.54	1.51	18.83	1.40	1.47	1.42
1900	6.63	1.66	4.97	1.84	18.48	1.43	1.51	1.45
2000	6.98	1.60	5.38	2.29	18.14	1.47	1.56	1.50
2100	7.34	1.56	5.78	2.74	17.79	1.51	1.60	1.54
2200	7.69	1.53	6.16	3.28	17.44	1.55	1.64	1.59
2300	8.03	1.51	6.52	3.79	17.11	1.61	1.69	1.65

¹Total Loss = Insertion Loss + 3dB Splitter Loss



2 Way-90° Power Splitter/Combiner

HPQ-12+

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	8.99	8.32	0.57	24.57	1.04	1.04	1.03
500	0.98	7.38	6.40	0.79	23.22	1.06	1.06	1.06
550	1.16	6.74	5.58	0.96	22.72	1.08	1.07	1.07
600	1.34	6.17	4.83	1.08	22.30	1.09	1.09	1.09
650	1.52	5.68	4.15	1.21	21.92	1.10	1.10	1.11
700	1.71	5.24	3.53	1.35	21.64	1.12	1.11	1.12
750	1.92	4.85	2.93	1.49	21.43	1.13	1.13	1.14
800	2.12	4.50	2.38	1.65	21.24	1.14	1.14	1.15
850	2.31	4.18	1.87	1.78	21.09	1.16	1.16	1.16
900	2.52	3.90	1.38	1.95	20.95	1.17	1.17	1.18
950	2.72	3.65	0.94	2.09	20.82	1.18	1.18	1.19
960	2.76	3.61	0.85	2.12	20.80	1.19	1.19	1.20
970	2.81	3.56	0.75	2.16	20.78	1.19	1.19	1.20
980	2.85	3.52	0.67	2.17	20.76	1.19	1.19	1.20
990	2.89	3.48	0.59	2.24	20.74	1.19	1.19	1.20
1000	2.93	3.44	0.51	2.27	20.70	1.20	1.20	1.20
1020	3.01	3.34	0.33	2.38	20.66	1.20	1.20	1.21
1030	3.05	3.30	0.25	2.40	20.65	1.20	1.21	1.21
1040	3.09	3.26	0.17	2.46	20.64	1.21	1.21	1.22
1050	3.13	3.22	0.09	2.51	20.63	1.21	1.21	1.22
1060	3.17	3.18	0.01	2.56	20.62	1.21	1.22	1.22
1070	3.22	3.15	0.06	2.56	20.60	1.21	1.22	1.22
1080	3.25	3.12	0.14	2.57	20.56	1.22	1.22	1.22
1090	3.29	3.08	0.22	2.63	20.55	1.22	1.23	1.23
1100	3.33	3.04	0.29	2.68	20.53	1.22	1.23	1.23
1120	3.41	2.97	0.44	2.79	20.50	1.22	1.24	1.23
1140	3.50	2.90	0.60	2.85	20.48	1.23	1.24	1.24
1150	3.54	2.87	0.67	2.91	20.45	1.23	1.25	1.24
1200	3.75	2.72	1.03	3.09	20.37	1.24	1.26	1.25
1250	3.94	2.57	1.37	3.33	20.26	1.25	1.28	1.27
1300	4.14	2.45	1.69	3.57	20.13	1.26	1.29	1.28
1350	4.34	2.32	2.01	3.74	20.01	1.28	1.31	1.29
1400	4.54	2.22	2.32	3.93	19.90	1.29	1.33	1.30
1450	4.73	2.12	2.61	4.18	19.78	1.30	1.34	1.31
1500	4.92	2.04	2.88	4.42	19.63	1.31	1.36	1.32
1600	5.30	1.88	3.41	4.94	19.37	1.33	1.39	1.35
1700	5.67	1.76	3.91	5.54	19.02	1.36	1.44	1.37
1800	6.03	1.65	4.38	6.10	18.65	1.39	1.47	1.41
1900	6.39	1.58	4.81	6.78	18.31	1.42	1.51	1.44
2000	6.73	1.51	5.22	7.47	17.97	1.45	1.56	1.48
2100	7.09	1.46	5.63	8.16	17.58	1.50	1.61	1.53
2200	7.45	1.44	6.01	8.94	17.15	1.55	1.65	1.58
2300	7.77	1.42	6.35	9.72	16.88	1.60	1.70	1.64

¹Total Loss = Insertion Loss + 3dB Splitter Loss

REV. X2
HPQ-12+
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Page 2 of 3



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2 Way-90° Power Splitter/Combiner

HPQ-12+

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	0.78	8.98	8.20	0.94	24.26	1.04	1.04	1.04
500	1.11	7.39	6.28	1.04	23.05	1.07	1.06	1.06
550	1.29	6.76	5.47	1.02	22.62	1.08	1.08	1.08
600	1.49	6.20	4.71	1.06	22.30	1.09	1.09	1.09
650	1.67	5.71	4.04	1.06	22.00	1.11	1.10	1.10
700	1.87	5.28	3.41	1.06	21.79	1.12	1.11	1.12
750	2.07	4.89	2.83	1.06	21.61	1.13	1.13	1.13
800	2.28	4.56	2.28	1.06	21.47	1.14	1.14	1.15
850	2.48	4.24	1.76	1.07	21.34	1.16	1.15	1.16
900	2.69	3.97	1.28	1.06	21.23	1.17	1.17	1.17
950	2.90	3.72	0.83	1.04	21.13	1.18	1.18	1.19
960	2.94	3.68	0.74	1.03	21.11	1.18	1.18	1.19
970	2.98	3.63	0.65	1.02	21.08	1.19	1.19	1.19
980	3.03	3.59	0.56	1.02	21.07	1.19	1.19	1.19
990	3.07	3.55	0.48	1.01	21.06	1.19	1.19	1.20
1000	3.12	3.50	0.39	1.02	21.04	1.19	1.20	1.20
1020	3.19	3.42	0.23	0.94	20.96	1.20	1.20	1.20
1030	3.24	3.38	0.14	0.95	20.95	1.20	1.21	1.20
1040	3.28	3.34	0.06	0.93	20.94	1.20	1.21	1.21
1050	3.32	3.30	0.02	0.91	20.93	1.21	1.21	1.21
1060	3.37	3.27	0.10	0.89	20.92	1.21	1.21	1.21
1070	3.41	3.24	0.17	0.92	20.88	1.21	1.22	1.21
1080	3.45	3.20	0.25	0.91	20.83	1.21	1.22	1.22
1090	3.49	3.16	0.33	0.90	20.83	1.22	1.22	1.22
1100	3.53	3.12	0.41	0.89	20.80	1.22	1.23	1.22
1120	3.62	3.06	0.57	0.85	20.76	1.22	1.23	1.23
1140	3.70	2.99	0.71	0.84	20.72	1.23	1.24	1.23
1150	3.75	2.95	0.79	0.81	20.69	1.23	1.24	1.24
1200	3.95	2.81	1.14	0.77	20.56	1.24	1.26	1.25
1250	4.16	2.68	1.49	0.67	20.44	1.25	1.27	1.26
1300	4.37	2.55	1.82	0.62	20.28	1.27	1.29	1.28
1350	4.57	2.44	2.13	0.58	20.15	1.28	1.31	1.29
1400	4.77	2.34	2.43	0.54	20.03	1.29	1.32	1.30
1450	4.97	2.24	2.73	0.46	19.89	1.30	1.34	1.32
1500	5.17	2.16	3.01	0.37	19.70	1.32	1.36	1.33
1600	5.57	2.01	3.55	0.16	19.40	1.34	1.40	1.36
1700	5.95	1.90	4.05	0.12	19.06	1.37	1.43	1.39
1800	6.32	1.80	4.52	0.36	18.70	1.40	1.47	1.42
1900	6.70	1.73	4.97	0.66	18.35	1.44	1.51	1.46
2000	7.06	1.68	5.38	1.02	18.05	1.48	1.56	1.51
2100	7.42	1.64	5.78	1.41	17.73	1.52	1.60	1.56
2200	7.78	1.61	6.17	1.84	17.41	1.56	1.64	1.60
2300	8.11	1.60	6.51	2.27	17.15	1.62	1.68	1.65

¹Total Loss = Insertion Loss + 3dB Splitter Loss

