

# 2 Way-90° Power Splitter/Combiner

# HPQ-12W+

## Typical Performance Data

TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = +25°C

FREQ. (MHz)	TOTAL LOSS <sup>1</sup> (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	8.86	8.10	0.38	24.98	1.04	1.05	1.04
500	1.09	7.28	6.19	0.35	23.78	1.07	1.07	1.07
600	1.46	6.10	4.63	0.23	23.02	1.10	1.09	1.10
700	1.85	5.18	3.33	0.17	22.47	1.12	1.12	1.13
800	2.26	4.46	2.20	0.04	22.08	1.15	1.15	1.16
900	2.69	3.89	1.21	0.09	21.70	1.18	1.17	1.19
920	2.76	3.79	1.03	0.12	21.63	1.19	1.18	1.20
940	2.85	3.69	0.84	0.20	21.56	1.19	1.18	1.21
960	2.93	3.61	0.67	0.20	21.50	1.20	1.19	1.21
980	3.02	3.51	0.49	0.26	21.43	1.20	1.19	1.22
1000	3.10	3.43	0.33	0.27	21.35	1.21	1.20	1.22
1020	3.19	3.35	0.16	0.29	21.27	1.21	1.20	1.23
1040	3.27	3.28	0.01	0.34	21.20	1.22	1.21	1.23
1060	3.36	3.20	0.16	0.41	21.13	1.22	1.21	1.24
1080	3.44	3.13	0.31	0.42	21.06	1.23	1.22	1.24
1100	3.52	3.06	0.46	0.49	20.99	1.24	1.22	1.25
1120	3.60	3.00	0.61	0.51	20.94	1.24	1.23	1.25
1130	3.64	2.96	0.68	0.52	20.90	1.24	1.23	1.26
1140	3.68	2.93	0.75	0.56	20.85	1.25	1.23	1.26
1160	3.77	2.87	0.89	0.58	20.75	1.25	1.24	1.26
1180	3.85	2.81	1.05	0.65	20.68	1.26	1.24	1.27
1200	3.93	2.75	1.18	0.69	20.60	1.26	1.25	1.27
1220	4.01	2.70	1.31	0.77	20.53	1.27	1.26	1.28
1240	4.09	2.64	1.45	0.80	20.44	1.27	1.26	1.28
1260	4.17	2.59	1.58	0.82	20.35	1.28	1.27	1.29
1280	4.26	2.54	1.71	0.88	20.29	1.28	1.27	1.29
1300	4.34	2.50	1.84	0.94	20.20	1.29	1.28	1.30
1400	4.73	2.28	2.45	1.20	19.82	1.32	1.31	1.32
1500	5.11	2.11	3.00	1.48	19.42	1.34	1.34	1.34
1600	5.48	1.97	3.51	1.82	19.01	1.37	1.37	1.37
1700	5.85	1.86	3.99	2.22	18.62	1.39	1.40	1.39
1800	6.20	1.76	4.44	2.63	18.23	1.42	1.43	1.42
1900	6.55	1.70	4.86	3.03	17.85	1.46	1.46	1.45
2000	6.88	1.65	5.23	3.54	17.49	1.49	1.50	1.49
2100	7.20	1.61	5.59	4.11	17.15	1.53	1.53	1.53

<sup>1</sup>Total Loss = Insertion Loss + 3dB Splitter Loss

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# 2 Way-90° Power Splitter/Combiner

# HPQ-12W+

## Typical Performance Data

TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = -40°C

FREQ. (MHz)	TOTAL LOSS <sup>1</sup> (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. From 90° (deg.)	ISOLATION (dB) 1-2	VSWR (:1)		
	S-1	S-2				S	1	2
400	0.68	8.95	8.27	0.80	25.75	1.05	1.05	1.04
500	0.98	7.34	6.36	1.10	24.42	1.07	1.07	1.06
600	1.34	6.14	4.80	1.45	23.52	1.09	1.09	1.10
700	1.71	5.20	3.49	1.79	22.85	1.12	1.12	1.13
800	2.12	4.47	2.35	2.08	22.35	1.15	1.14	1.16
900	2.52	3.88	1.37	2.43	21.82	1.17	1.16	1.19
920	2.59	3.78	1.19	2.51	21.73	1.18	1.17	1.20
940	2.68	3.68	1.00	2.66	21.62	1.19	1.18	1.20
960	2.75	3.59	0.83	2.75	21.54	1.19	1.18	1.21
980	2.84	3.50	0.66	2.88	21.43	1.20	1.19	1.21
1000	2.93	3.42	0.48	2.98	21.34	1.20	1.19	1.22
1020	3.01	3.35	0.34	3.03	21.19	1.21	1.19	1.22
1040	3.09	3.26	0.17	3.20	21.17	1.22	1.20	1.23
1060	3.18	3.18	0.01	3.30	21.08	1.22	1.20	1.24
1080	3.26	3.11	0.15	3.33	21.01	1.23	1.21	1.24
1100	3.34	3.03	0.31	3.42	20.94	1.23	1.22	1.25
1120	3.42	2.97	0.46	3.48	20.87	1.24	1.22	1.25
1130	3.46	2.94	0.52	3.53	20.85	1.24	1.23	1.25
1140	3.50	2.90	0.60	3.60	20.78	1.24	1.23	1.25
1160	3.59	2.83	0.75	3.67	20.67	1.24	1.23	1.26
1180	3.66	2.78	0.89	3.77	20.58	1.25	1.24	1.27
1200	3.74	2.72	1.02	3.89	20.49	1.26	1.24	1.27
1220	3.82	2.66	1.16	4.00	20.42	1.26	1.25	1.28
1240	3.90	2.60	1.30	4.09	20.32	1.27	1.25	1.28
1260	3.98	2.55	1.43	4.17	20.22	1.27	1.26	1.28
1280	4.06	2.50	1.55	4.28	20.15	1.28	1.26	1.29
1300	4.14	2.45	1.69	4.33	20.06	1.28	1.27	1.29
1400	4.52	2.23	2.29	4.73	19.66	1.31	1.30	1.31
1500	4.89	2.05	2.84	5.30	19.20	1.34	1.33	1.34
1600	5.25	1.90	3.35	5.88	18.79	1.36	1.36	1.36
1700	5.61	1.78	3.84	6.61	18.39	1.39	1.40	1.38
1800	5.96	1.68	4.28	7.29	17.98	1.41	1.43	1.41
1900	6.30	1.61	4.70	7.89	17.61	1.45	1.46	1.45
2000	6.62	1.55	5.07	8.73	17.29	1.48	1.50	1.48
2100	6.96	1.50	5.46	9.45	16.92	1.52	1.54	1.52

<sup>1</sup>Total Loss = Insertion Loss + 3dB Splitter Loss



# 2 Way-90° Power Splitter/Combiner

# HPQ-12W+

## Typical Performance Data

TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = +85°C

FREQ. (MHz)	TOTAL LOSS <sup>1</sup> (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	8.94	8.16	0.59	25.58	1.04	1.04	1.04
500	1.09	7.35	6.26	0.59	24.39	1.06	1.07	1.06
600	1.46	6.17	4.70	0.48	23.65	1.09	1.09	1.09
700	1.85	5.25	3.40	0.42	23.08	1.12	1.11	1.12
800	2.27	4.53	2.26	0.41	22.63	1.15	1.14	1.15
900	2.68	3.95	1.28	0.36	22.15	1.17	1.16	1.18
920	2.75	3.85	1.10	0.35	22.07	1.18	1.17	1.19
940	2.85	3.75	0.90	0.26	21.96	1.18	1.17	1.20
960	2.92	3.67	0.74	0.20	21.89	1.19	1.18	1.20
980	3.02	3.58	0.56	0.10	21.79	1.19	1.18	1.21
1000	3.10	3.49	0.39	0.06	21.70	1.20	1.19	1.21
1020	3.18	3.42	0.24	0.04	21.57	1.20	1.19	1.22
1040	3.27	3.34	0.07	0.06	21.51	1.21	1.20	1.22
1060	3.36	3.26	0.09	0.10	21.41	1.22	1.20	1.23
1080	3.45	3.20	0.25	0.08	21.32	1.22	1.21	1.23
1100	3.53	3.12	0.41	0.12	21.24	1.23	1.21	1.24
1120	3.61	3.06	0.56	0.13	21.15	1.23	1.22	1.24
1130	3.65	3.03	0.62	0.13	21.12	1.24	1.22	1.24
1140	3.69	2.99	0.70	0.18	21.05	1.24	1.22	1.25
1160	3.78	2.93	0.84	0.19	20.93	1.24	1.23	1.25
1180	3.85	2.87	0.99	0.25	20.82	1.25	1.24	1.26
1200	3.94	2.81	1.13	0.31	20.72	1.25	1.24	1.26
1220	4.02	2.76	1.26	0.37	20.63	1.26	1.25	1.27
1240	4.10	2.70	1.40	0.42	20.54	1.27	1.25	1.27
1260	4.18	2.65	1.53	0.44	20.43	1.27	1.26	1.28
1280	4.26	2.60	1.66	0.47	20.34	1.28	1.26	1.28
1300	4.35	2.56	1.79	0.47	20.24	1.28	1.27	1.29
1400	4.74	2.34	2.40	0.54	19.79	1.31	1.30	1.31
1500	5.12	2.17	2.95	0.84	19.33	1.34	1.33	1.34
1600	5.50	2.03	3.47	1.12	18.91	1.36	1.36	1.36
1700	5.87	1.92	3.96	1.55	18.52	1.39	1.39	1.39
1800	6.24	1.83	4.40	1.89	18.14	1.42	1.43	1.42
1900	6.59	1.76	4.83	2.21	17.76	1.46	1.46	1.46
2000	6.92	1.71	5.21	2.71	17.43	1.50	1.49	1.49
2100	7.26	1.67	5.59	3.10	17.09	1.54	1.52	1.54

<sup>1</sup>Total Loss = Insertion Loss + 3dB Splitter Loss

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