

# 2 Way-90° Power Splitter/Combiner

# HPQ-15W+

## 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
500	0.76	8.99	8.23	0.49	22.90	1.05	1.05	1.06
600	1.02	7.71	6.69	0.44	21.93	1.08	1.07	1.09
700	1.30	6.68	5.38	0.34	21.26	1.10	1.09	1.12
800	1.60	5.86	4.26	0.23	20.78	1.13	1.12	1.15
900	1.92	5.18	3.26	0.08	20.40	1.16	1.14	1.18
1000	2.24	4.62	2.38	0.08	20.10	1.18	1.17	1.21
1100	2.57	4.16	1.59	0.24	19.80	1.21	1.20	1.24
1200	2.90	3.76	0.86	0.45	19.54	1.24	1.23	1.26
1220	2.97	3.70	0.73	0.53	19.47	1.24	1.23	1.27
1240	3.03	3.63	0.60	0.57	19.41	1.25	1.24	1.27
1260	3.09	3.56	0.47	0.60	19.35	1.25	1.25	1.28
1280	3.16	3.49	0.33	0.65	19.29	1.26	1.25	1.28
1300	3.23	3.43	0.20	0.70	19.23	1.26	1.26	1.29
1320	3.30	3.37	0.07	0.74	19.17	1.27	1.26	1.29
1340	3.37	3.32	0.05	0.81	19.12	1.28	1.27	1.30
1360	3.43	3.26	0.17	0.83	19.07	1.28	1.28	1.30
1380	3.50	3.20	0.29	0.91	19.00	1.29	1.29	1.31
1400	3.56	3.14	0.42	0.95	18.94	1.29	1.29	1.31
1420	3.63	3.10	0.53	1.01	18.89	1.30	1.30	1.32
1440	3.70	3.05	0.65	1.05	18.83	1.30	1.31	1.32
1460	3.76	3.00	0.75	1.10	18.77	1.31	1.31	1.33
1480	3.83	2.95	0.87	1.18	18.71	1.31	1.32	1.33
1500	3.89	2.91	0.98	1.22	18.66	1.32	1.33	1.34
1600	4.21	2.70	1.51	1.52	18.37	1.34	1.37	1.36
1700	4.54	2.53	2.01	1.82	18.08	1.37	1.41	1.39
1800	4.87	2.39	2.48	2.13	17.78	1.40	1.45	1.42
1900	5.19	2.27	2.92	2.45	17.52	1.44	1.50	1.45
2000	5.51	2.17	3.34	2.80	17.23	1.47	1.55	1.49
2100	5.82	2.08	3.74	3.18	17.00	1.51	1.60	1.54
2200	6.15	2.02	4.12	3.54	16.75	1.55	1.65	1.59

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

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# 2 Way-90° Power Splitter/Combiner

# HPQ-15W+

## 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
500	0.67	9.09	8.42	1.03	23.50	1.05	1.05	1.05
600	0.92	7.78	6.87	1.35	22.47	1.07	1.07	1.08
700	1.18	6.74	5.56	1.71	21.71	1.09	1.09	1.12
800	1.47	5.90	4.43	2.06	21.15	1.12	1.11	1.15
900	1.77	5.22	3.44	2.46	20.70	1.15	1.14	1.18
1000	2.09	4.64	2.55	2.88	20.30	1.18	1.16	1.21
1100	2.40	4.17	1.76	3.33	19.93	1.21	1.19	1.23
1200	2.72	3.76	1.03	3.78	19.61	1.23	1.22	1.26
1220	2.79	3.69	0.91	3.88	19.51	1.24	1.22	1.26
1240	2.85	3.63	0.78	4.01	19.45	1.24	1.23	1.27
1260	2.91	3.55	0.64	4.09	19.37	1.25	1.24	1.27
1280	2.98	3.49	0.51	4.20	19.30	1.25	1.24	1.28
1300	3.05	3.42	0.37	4.29	19.23	1.26	1.25	1.28
1320	3.11	3.36	0.25	4.38	19.16	1.26	1.26	1.29
1340	3.18	3.30	0.12	4.48	19.09	1.27	1.26	1.29
1360	3.24	3.25	0.01	4.57	19.02	1.28	1.27	1.30
1380	3.30	3.19	0.11	4.71	18.96	1.28	1.28	1.30
1400	3.37	3.13	0.24	4.78	18.89	1.29	1.28	1.31
1420	3.43	3.08	0.35	4.90	18.83	1.29	1.29	1.31
1440	3.50	3.03	0.47	5.00	18.77	1.30	1.30	1.32
1460	3.56	2.98	0.58	5.11	18.69	1.30	1.31	1.32
1480	3.63	2.93	0.69	5.23	18.64	1.31	1.31	1.33
1500	3.69	2.89	0.80	5.32	18.57	1.31	1.32	1.33
1600	4.00	2.67	1.33	5.88	18.26	1.34	1.36	1.35
1700	4.32	2.49	1.83	6.49	17.94	1.37	1.40	1.38
1800	4.63	2.34	2.30	7.07	17.63	1.39	1.45	1.41
1900	4.95	2.22	2.73	7.67	17.39	1.42	1.50	1.44
2000	5.26	2.11	3.15	8.32	17.09	1.45	1.55	1.47
2100	5.57	2.02	3.55	8.98	16.85	1.49	1.61	1.52
2200	5.88	1.95	3.92	9.55	16.59	1.53	1.66	1.57

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

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# 2 Way-90° Power Splitter/Combiner

# HPQ-15W+

## 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
500	0.78	9.09	8.31	0.70	23.41	1.05	1.05	1.06
600	1.04	7.80	6.76	0.67	22.47	1.07	1.07	1.08
700	1.31	6.78	5.47	0.59	21.83	1.10	1.09	1.11
800	1.62	5.95	4.33	0.52	21.33	1.12	1.11	1.14
900	1.93	5.27	3.34	0.40	20.93	1.15	1.13	1.17
1000	2.25	4.71	2.46	0.29	20.58	1.17	1.16	1.20
1100	2.58	4.24	1.66	0.12	20.23	1.20	1.19	1.23
1200	2.91	3.85	0.93	0.04	19.88	1.23	1.22	1.25
1220	2.98	3.78	0.80	0.09	19.79	1.23	1.22	1.26
1240	3.04	3.71	0.67	0.13	19.73	1.24	1.23	1.26
1260	3.11	3.64	0.53	0.15	19.64	1.24	1.23	1.27
1280	3.18	3.57	0.40	0.21	19.57	1.25	1.24	1.27
1300	3.24	3.51	0.27	0.24	19.50	1.25	1.25	1.28
1320	3.31	3.45	0.14	0.27	19.42	1.26	1.25	1.28
1340	3.38	3.40	0.02	0.32	19.36	1.26	1.26	1.29
1360	3.44	3.34	0.10	0.35	19.27	1.27	1.27	1.29
1380	3.51	3.28	0.23	0.42	19.21	1.27	1.27	1.30
1400	3.58	3.23	0.35	0.44	19.13	1.28	1.28	1.30
1420	3.64	3.18	0.46	0.50	19.06	1.28	1.29	1.31
1440	3.71	3.13	0.58	0.52	18.99	1.29	1.30	1.31
1460	3.78	3.08	0.70	0.56	18.91	1.29	1.30	1.32
1480	3.85	3.03	0.81	0.64	18.84	1.30	1.31	1.32
1500	3.91	2.99	0.92	0.68	18.78	1.30	1.32	1.33
1600	4.24	2.78	1.46	0.91	18.44	1.33	1.36	1.35
1700	4.57	2.61	1.96	1.20	18.10	1.36	1.40	1.38
1800	4.90	2.47	2.43	1.44	17.77	1.39	1.44	1.41
1900	5.23	2.35	2.88	1.66	17.49	1.43	1.49	1.45
2000	5.55	2.25	3.30	2.00	17.18	1.47	1.54	1.49
2100	5.87	2.17	3.70	2.31	16.96	1.51	1.58	1.54
2200	6.19	2.12	4.07	2.50	16.73	1.55	1.63	1.59

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

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