

2 Way-90° Power Splitter/Combiner

HPQ-04

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
150	0.82	8.35	7.54	0.67	33.33	1.02	1.02	1.02
200	1.31	6.35	5.04	0.66	32.26	1.03	1.03	1.03
250	1.87	4.97	3.10	0.64	31.88	1.05	1.05	1.05
260	1.99	4.75	2.77	0.63	31.84	1.05	1.05	1.05
270	2.11	4.54	2.43	0.61	31.76	1.05	1.05	1.05
280	2.22	4.35	2.12	0.59	31.72	1.05	1.05	1.06
290	2.34	4.16	1.82	0.59	31.65	1.06	1.06	1.06
300	2.46	3.98	1.51	0.58	31.55	1.06	1.06	1.06
310	2.60	3.82	1.22	0.58	31.44	1.06	1.06	1.07
315	2.66	3.75	1.09	0.58	31.36	1.06	1.06	1.07
320	2.72	3.67	0.95	0.57	31.30	1.06	1.06	1.07
332	2.86	3.49	0.63	0.56	31.09	1.07	1.07	1.07
340	2.96	3.38	0.42	0.56	30.97	1.07	1.07	1.07
350	3.08	3.26	0.17	0.58	30.76	1.07	1.07	1.08
360	3.21	3.13	0.08	0.55	30.53	1.07	1.08	1.08
367	3.29	3.05	0.25	0.56	30.36	1.07	1.08	1.08
380	3.46	2.91	0.55	0.55	30.01	1.08	1.08	1.09
390	3.58	2.80	0.78	0.55	29.75	1.08	1.08	1.09
395	3.64	2.75	0.89	0.54	29.59	1.08	1.08	1.09
400	3.70	2.70	1.00	0.55	29.46	1.08	1.08	1.09
410	3.83	2.61	1.22	0.54	29.15	1.08	1.09	1.09
420	3.95	2.52	1.44	0.54	28.81	1.09	1.09	1.10
430	4.08	2.44	1.64	0.52	28.48	1.09	1.09	1.10
440	4.20	2.36	1.84	0.52	28.13	1.09	1.09	1.10
450	4.32	2.29	2.04	0.52	27.80	1.09	1.09	1.11
500	4.93	1.96	2.97	0.52	26.11	1.10	1.10	1.12
550	5.52	1.71	3.81	0.47	24.54	1.10	1.11	1.13
600	6.09	1.51	4.58	0.43	23.12	1.11	1.12	1.14
650	6.64	1.35	5.29	0.40	21.84	1.11	1.13	1.14
700	7.17	1.23	5.94	0.39	20.69	1.12	1.13	1.15
750	7.67	1.12	6.55	0.28	19.65	1.12	1.14	1.16
800	8.15	1.05	7.10	0.20	18.73	1.12	1.15	1.17
850	8.61	0.99	7.62	0.07	17.88	1.13	1.15	1.17
900	9.04	0.95	8.09	0.14	17.10	1.13	1.16	1.18
950	9.44	0.92	8.52	0.40	16.38	1.14	1.17	1.19
1000	9.81	0.90	8.91	0.76	15.70	1.15	1.18	1.20

¹Total Loss = Insertion Loss + 3dB Splitter Loss

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2 Way-90° Power Splitter/Combiner

HPQ-04

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
150	0.73	8.48	7.75	0.74	36.88	1.03	1.04	1.03
200	1.20	6.45	5.25	0.84	34.69	1.05	1.05	1.05
250	1.73	5.04	3.31	0.97	33.34	1.06	1.07	1.06
260	1.85	4.81	2.96	1.01	33.03	1.06	1.07	1.06
270	1.96	4.60	2.63	1.01	32.66	1.07	1.07	1.06
280	2.08	4.39	2.31	1.03	32.27	1.07	1.07	1.07
290	2.19	4.20	2.01	1.06	31.89	1.07	1.08	1.07
300	2.31	4.02	1.71	1.09	31.51	1.07	1.08	1.07
310	2.44	3.85	1.42	1.11	31.16	1.07	1.08	1.08
315	2.50	3.78	1.28	1.14	30.98	1.08	1.08	1.08
320	2.55	3.70	1.15	1.14	30.85	1.08	1.08	1.08
332	2.70	3.52	0.82	1.16	30.47	1.08	1.08	1.08
340	2.79	3.40	0.61	1.18	30.24	1.08	1.08	1.08
350	2.91	3.27	0.36	1.22	29.89	1.08	1.09	1.09
360	3.03	3.14	0.11	1.23	29.54	1.08	1.09	1.09
367	3.11	3.06	0.06	1.26	29.29	1.08	1.09	1.09
380	3.27	2.91	0.37	1.29	28.81	1.09	1.09	1.09
390	3.39	2.80	0.59	1.31	28.45	1.09	1.09	1.10
395	3.45	2.75	0.71	1.34	28.26	1.09	1.10	1.10
400	3.51	2.70	0.82	1.36	28.08	1.09	1.10	1.10
410	3.64	2.60	1.03	1.40	27.74	1.09	1.10	1.10
420	3.75	2.51	1.25	1.42	27.41	1.09	1.10	1.11
430	3.88	2.42	1.46	1.43	27.09	1.10	1.10	1.11
440	3.99	2.34	1.65	1.45	26.78	1.10	1.10	1.11
450	4.12	2.27	1.85	1.48	26.45	1.10	1.10	1.11
500	4.71	1.92	2.79	1.63	24.90	1.10	1.11	1.13
550	5.29	1.66	3.63	1.73	23.42	1.11	1.12	1.13
600	5.85	1.45	4.40	1.84	22.21	1.12	1.13	1.14
650	6.38	1.28	5.10	1.95	21.16	1.12	1.13	1.15
700	6.90	1.14	5.76	2.08	20.12	1.12	1.14	1.16
750	7.39	1.03	6.36	2.15	19.23	1.12	1.14	1.17
800	7.86	0.94	6.92	2.22	18.37	1.12	1.15	1.17
850	8.31	0.87	7.43	2.25	17.53	1.13	1.15	1.18
900	8.73	0.82	7.91	2.23	16.80	1.14	1.16	1.18
950	9.13	0.79	8.34	2.11	16.10	1.15	1.17	1.19
1000	9.50	0.76	8.74	1.95	15.50	1.16	1.17	1.20

¹Total Loss = Insertion Loss + 3dB Splitter Loss

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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
150	0.85	8.33	7.49	0.89	32.51	1.02	1.02	1.02
200	1.35	6.35	5.00	0.85	31.75	1.03	1.03	1.03
250	1.92	4.99	3.07	0.80	31.61	1.04	1.04	1.05
260	2.04	4.77	2.73	0.79	31.58	1.05	1.05	1.05
270	2.16	4.56	2.40	0.78	31.55	1.05	1.05	1.05
280	2.28	4.37	2.09	0.76	31.55	1.05	1.05	1.06
290	2.40	4.18	1.78	0.76	31.55	1.06	1.05	1.06
300	2.52	4.01	1.49	0.74	31.56	1.06	1.05	1.06
310	2.65	3.85	1.20	0.73	31.55	1.06	1.06	1.06
315	2.71	3.77	1.05	0.73	31.54	1.06	1.06	1.07
320	2.77	3.70	0.93	0.72	31.55	1.06	1.06	1.07
332	2.92	3.52	0.60	0.70	31.46	1.07	1.06	1.07
340	3.02	3.41	0.39	0.70	31.37	1.07	1.07	1.07
350	3.14	3.29	0.14	0.69	31.19	1.07	1.07	1.08
360	3.27	3.16	0.11	0.67	30.99	1.07	1.07	1.08
367	3.36	3.09	0.28	0.68	30.82	1.07	1.07	1.08
380	3.52	2.94	0.59	0.67	30.50	1.08	1.08	1.09
390	3.65	2.84	0.81	0.65	30.23	1.08	1.08	1.09
395	3.70	2.79	0.92	0.66	30.08	1.08	1.08	1.09
400	3.77	2.74	1.03	0.67	29.95	1.08	1.08	1.09
410	3.90	2.65	1.25	0.64	29.65	1.08	1.08	1.09
420	4.02	2.56	1.47	0.63	29.31	1.09	1.09	1.10
430	4.15	2.48	1.67	0.61	28.99	1.09	1.09	1.10
440	4.27	2.40	1.87	0.62	28.65	1.09	1.09	1.10
450	4.39	2.33	2.06	0.62	28.31	1.09	1.09	1.10
500	5.00	2.00	3.00	0.60	26.49	1.10	1.10	1.12
550	5.60	1.76	3.84	0.56	24.82	1.10	1.11	1.13
600	6.17	1.56	4.60	0.50	23.33	1.11	1.12	1.14
650	6.72	1.41	5.31	0.45	21.98	1.11	1.13	1.14
700	7.25	1.29	5.96	0.42	20.80	1.11	1.14	1.15
750	7.76	1.19	6.57	0.32	19.73	1.12	1.14	1.16
800	8.23	1.12	7.11	0.19	18.77	1.12	1.15	1.17
850	8.70	1.07	7.63	0.04	17.91	1.12	1.16	1.17
900	9.13	1.03	8.10	0.20	17.11	1.13	1.17	1.18
950	9.53	1.00	8.53	0.47	16.39	1.14	1.18	1.19
1000	9.91	0.99	8.92	0.84	15.71	1.14	1.19	1.20

¹Total Loss = Insertion Loss + 3dB Splitter Loss

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