

2 Way-90° Power Splitter/Combiner

HPQ-15

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
500	0.79	8.90	8.11	1.41	22.44	1.07	1.05	1.07
600	1.05	7.63	6.57	1.48	21.53	1.09	1.07	1.11
700	1.34	6.61	5.27	1.49	20.92	1.12	1.09	1.14
800	1.64	5.80	4.15	1.53	20.49	1.15	1.11	1.17
900	1.97	5.13	3.16	1.53	20.19	1.18	1.14	1.20
1000	2.29	4.57	2.28	1.51	19.94	1.20	1.16	1.23
1100	2.62	4.12	1.50	1.47	19.69	1.23	1.19	1.25
1200	2.95	3.73	0.77	1.39	19.42	1.26	1.21	1.27
1220	3.02	3.66	0.64	1.38	19.37	1.26	1.22	1.28
1240	3.09	3.59	0.50	1.35	19.32	1.27	1.22	1.28
1260	3.15	3.53	0.38	1.35	19.26	1.27	1.23	1.29
1280	3.22	3.46	0.24	1.33	19.20	1.28	1.23	1.29
1300	3.29	3.40	0.11	1.28	19.17	1.28	1.24	1.29
1320	3.35	3.34	0.01	1.29	19.09	1.29	1.25	1.30
1340	3.41	3.29	0.13	1.25	19.04	1.29	1.25	1.30
1360	3.48	3.23	0.26	1.24	18.98	1.30	1.26	1.31
1380	3.55	3.17	0.38	1.21	18.92	1.30	1.26	1.31
1400	3.61	3.12	0.49	1.22	18.85	1.31	1.27	1.31
1420	3.68	3.07	0.61	1.16	18.80	1.31	1.28	1.32
1430	3.71	3.04	0.67	1.16	18.77	1.32	1.28	1.32
1440	3.75	3.02	0.73	1.15	18.74	1.32	1.28	1.32
1460	3.81	2.97	0.83	1.13	18.68	1.32	1.29	1.33
1480	3.88	2.93	0.94	1.12	18.61	1.33	1.30	1.33
1500	3.95	2.88	1.07	1.09	18.55	1.33	1.30	1.33
1600	4.27	2.68	1.59	0.94	18.23	1.36	1.34	1.36
1700	4.59	2.52	2.07	0.76	17.89	1.39	1.37	1.38
1800	4.92	2.39	2.53	0.58	17.56	1.42	1.41	1.42
1900	5.24	2.27	2.97	0.34	17.24	1.46	1.45	1.45
2000	5.56	2.19	3.38	0.13	16.91	1.50	1.50	1.50
2100	5.88	2.12	3.76	0.14	16.63	1.55	1.54	1.55
2200	6.21	2.07	4.14	0.42	16.37	1.60	1.59	1.61
2300	6.54	2.05	4.49	0.77	16.14	1.67	1.63	1.68
2400	6.85	2.03	4.82	1.14	15.91	1.74	1.69	1.76
2500	7.18	2.04	5.14	1.61	15.70	1.82	1.73	1.84
2600	7.53	2.05	5.48	2.14	15.51	1.90	1.79	1.94

¹Total Loss = Insertion Loss + 3dB Splitter Loss

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2 Way-90° Power Splitter/Combiner

HPQ-15

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
500	0.69	8.99	8.30	0.23	23.04	1.05	1.04	1.06
600	0.94	7.70	6.75	0.45	22.05	1.08	1.06	1.09
700	1.22	6.66	5.44	0.72	21.36	1.11	1.08	1.13
800	1.51	5.83	4.32	0.93	20.87	1.14	1.10	1.16
900	1.82	5.15	3.33	1.19	20.48	1.16	1.13	1.19
1000	2.13	4.59	2.46	1.48	20.13	1.19	1.15	1.22
1100	2.45	4.12	1.67	1.80	19.81	1.22	1.18	1.24
1200	2.78	3.72	0.94	2.13	19.49	1.25	1.20	1.27
1220	2.84	3.65	0.81	2.22	19.42	1.26	1.21	1.27
1240	2.90	3.58	0.68	2.32	19.37	1.26	1.21	1.28
1260	2.97	3.51	0.54	2.37	19.29	1.27	1.22	1.28
1280	3.04	3.45	0.41	2.45	19.25	1.27	1.22	1.29
1300	3.10	3.38	0.28	2.55	19.17	1.28	1.23	1.29
1320	3.16	3.32	0.16	2.60	19.08	1.28	1.24	1.30
1340	3.22	3.26	0.04	2.69	19.02	1.29	1.24	1.30
1360	3.29	3.20	0.09	2.73	18.95	1.29	1.25	1.31
1380	3.36	3.15	0.21	2.83	18.89	1.30	1.25	1.31
1400	3.42	3.09	0.33	2.89	18.81	1.30	1.26	1.32
1420	3.48	3.04	0.44	3.01	18.76	1.31	1.27	1.32
1430	3.51	3.01	0.50	3.04	18.73	1.31	1.27	1.32
1440	3.55	2.99	0.56	3.07	18.69	1.32	1.27	1.32
1460	3.61	2.94	0.66	3.15	18.61	1.32	1.28	1.33
1480	3.68	2.89	0.78	3.22	18.54	1.33	1.29	1.33
1500	3.74	2.85	0.89	3.31	18.47	1.33	1.29	1.34
1600	4.06	2.64	1.42	3.74	18.11	1.36	1.33	1.36
1700	4.37	2.47	1.90	4.23	17.74	1.39	1.37	1.39
1800	4.70	2.33	2.37	4.68	17.40	1.42	1.41	1.42
1900	5.01	2.21	2.80	5.21	17.07	1.46	1.45	1.46
2000	5.32	2.11	3.22	5.70	16.75	1.49	1.50	1.50
2100	5.63	2.03	3.60	6.30	16.47	1.54	1.55	1.55
2200	5.95	1.97	3.98	6.84	16.19	1.59	1.60	1.61
2300	6.27	1.94	4.33	7.45	15.93	1.65	1.64	1.67
2400	6.58	1.91	4.67	8.09	15.65	1.72	1.69	1.74
2500	6.92	1.91	5.01	8.80	15.42	1.79	1.74	1.82
2600	7.24	1.91	5.33	9.62	15.21	1.88	1.80	1.91

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
500	0.81	8.97	8.16	1.62	22.81	1.06	1.05	1.07
600	1.08	7.70	6.62	1.67	21.93	1.09	1.07	1.10
700	1.36	6.68	5.32	1.70	21.35	1.11	1.09	1.13
800	1.67	5.87	4.20	1.74	20.92	1.14	1.11	1.16
900	1.99	5.19	3.20	1.77	20.61	1.17	1.13	1.19
1000	2.32	4.64	2.32	1.76	20.33	1.19	1.15	1.22
1100	2.64	4.18	1.53	1.72	20.02	1.22	1.17	1.24
1200	2.98	3.80	0.81	1.69	19.69	1.25	1.20	1.27
1220	3.05	3.73	0.68	1.66	19.63	1.25	1.21	1.27
1240	3.11	3.66	0.55	1.62	19.57	1.26	1.21	1.28
1260	3.18	3.59	0.41	1.66	19.49	1.27	1.22	1.28
1280	3.25	3.53	0.28	1.64	19.42	1.27	1.22	1.29
1300	3.32	3.46	0.14	1.60	19.37	1.28	1.23	1.29
1320	3.39	3.40	0.01	1.62	19.28	1.28	1.24	1.29
1340	3.45	3.35	0.10	1.58	19.21	1.29	1.24	1.30
1360	3.52	3.30	0.22	1.57	19.14	1.29	1.25	1.30
1380	3.59	3.24	0.34	1.55	19.07	1.30	1.25	1.31
1400	3.65	3.19	0.46	1.55	18.99	1.30	1.26	1.31
1420	3.72	3.14	0.58	1.49	18.92	1.31	1.27	1.32
1430	3.75	3.11	0.64	1.49	18.88	1.31	1.27	1.32
1440	3.79	3.09	0.70	1.48	18.85	1.31	1.27	1.32
1460	3.86	3.04	0.81	1.47	18.77	1.32	1.28	1.33
1480	3.93	3.00	0.92	1.46	18.69	1.33	1.29	1.33
1500	3.99	2.96	1.03	1.44	18.63	1.33	1.29	1.34
1600	4.32	2.76	1.56	1.32	18.27	1.36	1.33	1.37
1700	4.65	2.60	2.05	1.17	17.89	1.39	1.37	1.39
1800	4.98	2.46	2.52	1.00	17.54	1.43	1.41	1.43
1900	5.31	2.35	2.97	0.85	17.20	1.47	1.45	1.47
2000	5.65	2.26	3.39	0.71	16.86	1.51	1.49	1.51
2100	5.96	2.19	3.77	0.40	16.61	1.56	1.53	1.57
2200	6.29	2.14	4.14	0.25	16.37	1.62	1.58	1.63
2300	6.61	2.12	4.49	0.03	16.16	1.68	1.62	1.70
2400	6.94	2.10	4.84	0.30	15.93	1.74	1.67	1.77
2500	7.25	2.09	5.16	0.73	15.78	1.81	1.71	1.84
2600	7.57	2.09	5.48	1.19	15.62	1.88	1.76	1.92

¹Total Loss = Insertion Loss + 3dB Splitter Loss

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