

2 Way-90° Power Splitter/Combiner

QBA-24

Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS ¹			AMP. UNBAL. (dB)	PHASE UNBAL. From 90° (deg.)	ISOLATION (dB) 1-2	VSWR		
	S-1	S-2	AVG.				S	1	2
1000	5.62	1.75	3.68	3.87	1.09	22.01	1.10	1.31	1.08
1050	5.38	1.86	3.62	3.52	0.96	22.22	1.11	1.30	1.08
1100	5.17	1.96	3.56	3.20	0.84	22.46	1.11	1.30	1.09
1150	4.98	2.06	3.52	2.91	0.73	22.70	1.12	1.29	1.10
1200	4.79	2.17	3.48	2.62	0.63	23.01	1.13	1.28	1.10
1250	4.63	2.27	3.45	2.36	0.53	23.27	1.14	1.27	1.11
1300	4.49	2.36	3.42	2.12	0.44	23.57	1.15	1.26	1.12
1350	4.35	2.46	3.40	1.89	0.38	23.88	1.16	1.25	1.12
1400	4.23	2.56	3.39	1.67	0.28	24.11	1.17	1.24	1.13
1450	4.12	2.64	3.38	1.48	0.23	24.31	1.18	1.23	1.14
1500	4.02	2.73	3.38	1.29	0.15	24.42	1.19	1.21	1.15
1550	3.93	2.81	3.37	1.12	0.11	24.43	1.20	1.20	1.16
1600	3.85	2.89	3.37	0.97	0.05	24.33	1.21	1.19	1.17
1650	3.79	2.96	3.38	0.82	0.00	24.11	1.22	1.19	1.18
1700	3.73	3.03	3.38	0.70	0.05	23.78	1.23	1.18	1.19
1750	3.68	3.10	3.39	0.58	0.09	23.39	1.24	1.18	1.20
1800	3.63	3.16	3.40	0.47	0.13	22.92	1.25	1.18	1.21
1850	3.60	3.21	3.40	0.39	0.18	22.40	1.26	1.18	1.22
1900	3.57	3.27	3.42	0.30	0.26	21.89	1.28	1.18	1.23
1925	3.56	3.29	3.43	0.27	0.28	21.62	1.28	1.19	1.23
1950	3.55	3.32	3.43	0.23	0.32	21.34	1.29	1.19	1.24
1975	3.54	3.34	3.44	0.20	0.33	21.10	1.29	1.20	1.24
2000	3.54	3.36	3.45	0.18	0.33	20.86	1.30	1.20	1.25
2025	3.54	3.38	3.46	0.16	0.36	20.61	1.30	1.21	1.25
2050	3.53	3.40	3.47	0.13	0.40	20.36	1.31	1.21	1.25
2075	3.53	3.41	3.47	0.12	0.45	20.12	1.31	1.22	1.26
2100	3.53	3.43	3.48	0.10	0.50	19.87	1.32	1.23	1.26
2125	3.53	3.45	3.49	0.08	0.52	19.68	1.32	1.23	1.26
2150	3.53	3.45	3.49	0.08	0.53	19.43	1.33	1.24	1.27
2175	3.54	3.47	3.50	0.07	0.59	19.23	1.33	1.25	1.27
2200	3.54	3.48	3.51	0.06	0.59	19.02	1.34	1.26	1.27
2300	3.58	3.52	3.55	0.06	0.72	18.21	1.35	1.30	1.29
2400	3.65	3.52	3.59	0.13	0.85	17.47	1.37	1.34	1.30
2500	3.75	3.51	3.63	0.24	0.97	16.81	1.38	1.38	1.31
2600	3.86	3.48	3.67	0.39	1.12	16.23	1.39	1.42	1.31
2700	4.03	3.41	3.72	0.62	1.24	15.71	1.40	1.47	1.32
2800	4.22	3.31	3.77	0.91	1.41	15.20	1.40	1.52	1.32
2900	4.45	3.19	3.82	1.26	1.74	14.72	1.40	1.58	1.32
3000	4.76	3.05	3.91	1.71	2.02	14.18	1.39	1.65	1.32

¹ Total Loss = Insertion Loss+ 3dB Splitter Loss

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2 Way-90° Power Splitter/Combiner

QBA-24

Typical Performance Data

TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = -55°C

FREQ. (MHz)	TOTAL LOSS ¹			AMP. UNBAL. (dB)	PHASE UNBAL. From 90° (deg.)	ISOLATION (dB) 1-2	VSWR		
	S-1	S-2	AVG.				S	1	2
1000	5.46	1.58	3.52	3.88	2.22	21.74	1.11	1.32	1.08
1050	5.22	1.68	3.45	3.54	2.18	21.96	1.12	1.32	1.09
1100	5.00	1.77	3.38	3.24	2.10	22.11	1.12	1.32	1.09
1150	4.81	1.87	3.34	2.94	2.05	22.42	1.12	1.31	1.10
1200	4.61	1.96	3.29	2.65	2.01	22.75	1.13	1.30	1.10
1250	4.44	2.05	3.25	2.39	1.97	23.06	1.13	1.29	1.10
1300	4.29	2.14	3.22	2.15	1.90	23.61	1.14	1.27	1.11
1350	4.15	2.23	3.19	1.92	1.88	23.87	1.15	1.26	1.11
1400	4.02	2.32	3.17	1.70	1.84	24.29	1.16	1.24	1.12
1450	3.90	2.40	3.15	1.50	1.83	24.44	1.17	1.22	1.13
1500	3.79	2.49	3.14	1.31	1.82	24.83	1.17	1.21	1.15
1550	3.70	2.57	3.13	1.13	1.84	24.90	1.18	1.20	1.16
1600	3.61	2.63	3.12	0.98	1.86	24.91	1.19	1.18	1.17
1650	3.54	2.70	3.12	0.83	1.84	24.65	1.21	1.17	1.18
1700	3.47	2.76	3.12	0.71	1.84	24.27	1.22	1.15	1.20
1750	3.41	2.83	3.12	0.58	1.88	23.72	1.23	1.15	1.21
1800	3.37	2.89	3.13	0.48	1.89	23.15	1.25	1.15	1.23
1850	3.33	2.94	3.13	0.39	1.90	22.52	1.26	1.16	1.24
1900	3.30	3.00	3.15	0.30	1.91	21.70	1.29	1.17	1.25
1925	3.29	3.02	3.16	0.27	1.90	21.44	1.29	1.18	1.26
1950	3.28	3.05	3.16	0.23	1.89	21.16	1.30	1.19	1.26
1975	3.28	3.07	3.17	0.20	1.87	20.87	1.31	1.19	1.27
2000	3.27	3.10	3.18	0.17	1.90	20.48	1.33	1.21	1.28
2025	3.26	3.12	3.19	0.14	1.87	20.14	1.33	1.22	1.29
2050	3.27	3.14	3.21	0.12	1.96	19.82	1.33	1.23	1.29
2075	3.26	3.15	3.21	0.11	1.90	19.60	1.34	1.24	1.29
2100	3.26	3.17	3.22	0.09	1.86	19.29	1.36	1.25	1.29
2125	3.26	3.19	3.22	0.07	1.85	19.00	1.37	1.26	1.30
2150	3.26	3.20	3.23	0.06	1.85	18.77	1.37	1.27	1.30
2175	3.26	3.22	3.24	0.04	1.84	18.53	1.38	1.29	1.31
2200	3.26	3.23	3.25	0.03	1.86	18.29	1.39	1.30	1.31
2300	3.30	3.26	3.28	0.04	1.80	17.43	1.42	1.35	1.32
2400	3.36	3.28	3.32	0.08	1.82	16.59	1.45	1.40	1.32
2500	3.43	3.26	3.35	0.16	1.89	16.02	1.45	1.44	1.32
2600	3.50	3.21	3.35	0.29	1.97	15.59	1.44	1.47	1.32
2700	3.63	3.14	3.39	0.50	2.14	15.16	1.44	1.50	1.31
2800	3.79	3.01	3.40	0.78	2.10	14.81	1.43	1.54	1.31
2900	3.97	2.87	3.42	1.10	2.19	14.44	1.41	1.57	1.31
3000	4.23	2.71	3.47	1.52	2.11	14.13	1.39	1.64	1.31

¹ Total 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 = +100°C

FREQ. (MHz)	TOTAL LOSS ¹			AMP. UNBAL. (dB)	PHASE UNBAL. From 90° (deg.)	ISOLATION (dB) 1-2	VSWR		
	S-1	S-2	AVG.				S	1	2
1000	5.66	1.85	3.75	3.81	0.42	22.41	1.09	1.29	1.09
1050	5.43	1.95	3.69	3.48	0.60	22.58	1.10	1.28	1.10
1100	5.22	2.06	3.64	3.16	0.79	22.77	1.12	1.27	1.10
1150	5.04	2.18	3.61	2.86	0.97	22.90	1.14	1.27	1.12
1200	4.86	2.29	3.58	2.57	1.13	23.07	1.15	1.26	1.12
1250	4.70	2.39	3.55	2.31	1.27	23.21	1.16	1.25	1.13
1300	4.57	2.50	3.54	2.07	1.40	23.32	1.18	1.25	1.14
1350	4.44	2.60	3.52	1.84	1.52	23.42	1.19	1.24	1.15
1400	4.33	2.70	3.51	1.63	1.67	23.52	1.20	1.24	1.16
1450	4.22	2.79	3.51	1.43	1.78	23.58	1.21	1.24	1.17
1500	4.14	2.88	3.51	1.26	1.94	23.56	1.23	1.24	1.18
1550	4.05	2.97	3.51	1.09	2.02	23.43	1.24	1.23	1.18
1600	3.98	3.05	3.51	0.94	2.16	23.31	1.25	1.23	1.19
1650	3.93	3.12	3.53	0.80	2.28	23.11	1.26	1.23	1.19
1700	3.87	3.19	3.53	0.67	2.41	22.87	1.26	1.23	1.19
1750	3.82	3.25	3.53	0.57	2.54	22.62	1.27	1.23	1.20
1800	3.78	3.32	3.55	0.46	2.69	22.31	1.28	1.23	1.20
1850	3.75	3.37	3.56	0.38	2.80	21.93	1.29	1.23	1.20
1900	3.72	3.43	3.57	0.29	2.92	21.63	1.29	1.23	1.21
1925	3.71	3.45	3.58	0.26	2.98	21.49	1.29	1.23	1.21
1950	3.70	3.47	3.58	0.23	3.06	21.32	1.29	1.23	1.21
1975	3.69	3.48	3.59	0.21	3.11	21.17	1.30	1.23	1.21
2000	3.68	3.51	3.60	0.18	3.14	21.03	1.30	1.23	1.21
2025	3.68	3.52	3.60	0.16	3.25	20.87	1.30	1.23	1.21
2050	3.69	3.55	3.62	0.14	3.25	20.70	1.30	1.23	1.21
2075	3.68	3.56	3.62	0.12	3.36	20.55	1.30	1.24	1.21
2100	3.68	3.57	3.63	0.11	3.43	20.37	1.31	1.24	1.22
2125	3.68	3.59	3.63	0.09	3.50	20.22	1.31	1.24	1.22
2150	3.68	3.59	3.63	0.09	3.55	20.09	1.30	1.24	1.22
2175	3.68	3.60	3.64	0.08	3.64	19.97	1.30	1.24	1.22
2200	3.69	3.61	3.65	0.08	3.60	19.78	1.30	1.24	1.22
2300	3.73	3.63	3.68	0.10	3.89	19.13	1.30	1.26	1.23
2400	3.81	3.61	3.71	0.20	4.13	18.52	1.29	1.28	1.25
2500	3.92	3.59	3.75	0.33	4.38	17.85	1.29	1.32	1.26
2600	4.05	3.55	3.80	0.51	4.69	17.19	1.30	1.36	1.28
2700	4.24	3.50	3.87	0.75	5.10	16.54	1.30	1.42	1.30
2800	4.48	3.40	3.94	1.08	5.69	15.87	1.32	1.49	1.32
2900	4.76	3.31	4.03	1.45	6.30	15.16	1.33	1.56	1.33
3000	5.09	3.20	4.14	1.90	7.20	14.48	1.35	1.65	1.34

¹ Total Loss = Insertion Loss+ 3dB Splitter Loss

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