

2 Way-90° Power Splitter/Combiner

QBA-12+

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		
	S-1	S-2	AVG.				S	(:1) 1	2
700	3.94	2.88	3.41	1.06	0.68	20.96	1.22	1.14	1.16
725	3.83	2.97	3.40	0.85	0.56	21.08	1.21	1.13	1.15
750	3.73	3.05	3.39	0.69	0.49	21.20	1.21	1.11	1.14
775	3.65	3.13	3.39	0.52	0.42	21.33	1.20	1.10	1.13
800	3.57	3.20	3.38	0.37	0.34	21.44	1.20	1.09	1.12
825	3.50	3.27	3.38	0.22	0.30	21.58	1.19	1.09	1.11
850	3.44	3.33	3.38	0.10	0.25	21.71	1.19	1.08	1.10
875	3.39	3.39	3.39	0.00	0.22	21.83	1.19	1.08	1.10
900	3.34	3.44	3.39	0.10	0.22	21.95	1.19	1.08	1.10
950	3.28	3.53	3.40	0.26	0.24	22.17	1.19	1.08	1.10
975	3.26	3.56	3.41	0.30	0.25	22.25	1.19	1.08	1.10
1000	3.25	3.59	3.42	0.34	0.31	22.33	1.19	1.09	1.11
1025	3.25	3.62	3.43	0.37	0.34	22.41	1.19	1.10	1.11
1050	3.25	3.63	3.44	0.38	0.39	22.45	1.19	1.10	1.12
1100	3.28	3.64	3.46	0.36	0.46	22.49	1.20	1.12	1.13
1125	3.31	3.63	3.47	0.32	0.48	22.47	1.20	1.13	1.14
1150	3.34	3.62	3.48	0.27	0.52	22.42	1.20	1.14	1.15
1175	3.39	3.60	3.49	0.21	0.55	22.34	1.21	1.15	1.17
1200	3.44	3.56	3.50	0.12	0.59	22.24	1.21	1.16	1.18
1250	3.58	3.49	3.54	0.09	0.59	21.92	1.23	1.19	1.21
1300	3.76	3.39	3.58	0.37	0.52	21.53	1.25	1.22	1.24
1350	4.00	3.26	3.63	0.74	0.35	21.06	1.28	1.27	1.28
1400	4.31	3.13	3.72	1.17	0.06	20.58	1.33	1.32	1.33
1450	4.68	2.99	3.83	1.69	0.46	20.11	1.38	1.38	1.38
1500	5.12	2.83	3.97	2.29	1.17	19.67	1.45	1.46	1.45

¹ Total Loss = Insertion Loss+ 3dB Splitter Loss

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2 Way-90° Power Splitter/Combiner

QBA-12+

Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS ¹ (dB)			AMP. UNBAL. (dB)	PHASE UNBAL. From 90° (deg.)	ISOLATION (dB) 1-2	VSWR		
	S-1	S-2	AVG.				S	(:1) 1	2
700	3.81	2.73	3.27	1.08	0.64	20.91	1.22	1.15	1.16
725	3.70	2.81	3.26	0.89	0.54	21.01	1.22	1.13	1.16
750	3.60	2.90	3.25	0.70	0.43	21.07	1.21	1.12	1.15
775	3.51	2.98	3.24	0.53	0.36	21.20	1.21	1.11	1.14
800	3.43	3.05	3.24	0.38	0.29	21.31	1.20	1.10	1.12
825	3.35	3.11	3.23	0.24	0.24	21.42	1.20	1.08	1.11
850	3.28	3.18	3.23	0.11	0.20	21.49	1.20	1.08	1.11
875	3.23	3.23	3.23	0.00	0.16	21.58	1.19	1.08	1.10
900	3.18	3.28	3.23	0.10	0.17	21.74	1.19	1.08	1.10
950	3.10	3.36	3.23	0.26	0.22	21.96	1.19	1.07	1.09
975	3.08	3.39	3.24	0.32	0.24	22.00	1.19	1.07	1.09
1000	3.06	3.43	3.24	0.37	0.29	22.06	1.19	1.08	1.10
1025	3.05	3.44	3.25	0.39	0.34	22.13	1.19	1.09	1.10
1050	3.05	3.45	3.25	0.40	0.35	22.17	1.19	1.09	1.10
1100	3.07	3.46	3.26	0.39	0.41	22.14	1.19	1.11	1.13
1125	3.09	3.46	3.27	0.37	0.47	22.06	1.19	1.12	1.14
1150	3.12	3.44	3.28	0.33	0.51	21.94	1.20	1.13	1.14
1175	3.15	3.42	3.29	0.27	0.55	21.85	1.21	1.14	1.15
1200	3.20	3.39	3.30	0.19	0.60	21.78	1.21	1.15	1.16
1250	3.32	3.31	3.32	0.01	0.69	21.38	1.23	1.18	1.19
1300	3.49	3.21	3.35	0.28	0.66	20.92	1.25	1.21	1.23
1350	3.71	3.09	3.40	0.63	0.60	20.52	1.28	1.26	1.27
1400	3.99	2.95	3.47	1.04	0.37	20.05	1.32	1.31	1.32
1450	4.34	2.79	3.56	1.55	0.01	19.63	1.37	1.37	1.37
1500	4.76	2.64	3.70	2.12	0.66	19.06	1.44	1.44	1.44

¹ Total Loss = Insertion Loss+ 3dB Splitter Loss

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2 Way-90° Power Splitter/Combiner

QBA-12+

Typical Performance Data

TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = +100°C

FREQ. (MHz)	TOTAL LOSS ¹ (dB)			AMP. UNBAL. (dB)	PHASE UNBAL. From 90° (deg.)	ISOLATION (dB) 1-2	VSWR		
	S-1	S-2	AVG.				S	(:1) 1	2
700	3.99	2.97	3.48	1.02	0.64	20.98	1.22	1.14	1.15
725	3.89	3.05	3.47	0.83	0.54	21.16	1.21	1.12	1.13
750	3.79	3.14	3.47	0.65	0.46	21.30	1.20	1.11	1.12
775	3.71	3.22	3.46	0.49	0.40	21.45	1.20	1.10	1.11
800	3.63	3.29	3.46	0.34	0.34	21.58	1.19	1.09	1.11
825	3.57	3.36	3.46	0.20	0.30	21.76	1.19	1.08	1.10
850	3.50	3.41	3.46	0.09	0.25	21.94	1.19	1.08	1.09
875	3.46	3.48	3.47	0.02	0.23	22.08	1.19	1.08	1.09
900	3.42	3.53	3.48	0.11	0.23	22.22	1.18	1.08	1.09
950	3.36	3.62	3.49	0.26	0.25	22.50	1.18	1.08	1.10
975	3.35	3.65	3.50	0.30	0.28	22.65	1.18	1.09	1.10
1000	3.34	3.68	3.51	0.34	0.32	22.77	1.18	1.09	1.11
1025	3.35	3.70	3.52	0.35	0.33	22.89	1.18	1.10	1.12
1050	3.36	3.72	3.54	0.36	0.36	22.96	1.18	1.10	1.13
1100	3.40	3.72	3.56	0.32	0.42	23.09	1.19	1.12	1.15
1125	3.44	3.71	3.58	0.27	0.41	23.11	1.19	1.13	1.15
1150	3.47	3.70	3.59	0.23	0.41	23.06	1.20	1.14	1.17
1175	3.53	3.68	3.60	0.15	0.42	23.00	1.20	1.15	1.18
1200	3.59	3.64	3.62	0.06	0.44	22.92	1.21	1.16	1.19
1250	3.74	3.57	3.66	0.17	0.36	22.61	1.23	1.19	1.22
1300	3.94	3.47	3.71	0.47	0.21	22.24	1.25	1.23	1.25
1350	4.19	3.35	3.77	0.84	0.04	21.78	1.28	1.27	1.29
1400	4.51	3.22	3.87	1.30	0.42	21.31	1.32	1.33	1.33
1450	4.89	3.07	3.98	1.83	1.01	20.85	1.37	1.39	1.37
1500	5.35	2.92	4.13	2.43	1.73	20.32	1.43	1.46	1.43

¹ Total Loss = Insertion Loss+ 3dB Splitter Loss