

2 Way-90° Power Splitter/Combiner

QBA-07

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
100	10.49	0.64	5.56	9.85	1.94	31.23	1.09	1.09	1.11
125	8.89	0.87	4.88	8.01	1.80	29.74	1.11	1.10	1.12
150	7.67	1.13	4.40	6.54	1.67	28.68	1.13	1.11	1.13
175	6.72	1.39	4.05	5.33	1.56	27.92	1.13	1.11	1.13
200	5.96	1.66	3.81	4.30	1.47	27.39	1.14	1.11	1.13
225	5.34	1.93	3.64	3.41	1.33	26.99	1.14	1.10	1.12
250	4.84	2.19	3.51	2.65	1.19	26.76	1.14	1.09	1.11
275	4.43	2.45	3.44	1.98	1.04	26.46	1.13	1.08	1.11
300	4.09	2.68	3.38	1.41	0.90	26.27	1.13	1.07	1.10
320	3.86	2.87	3.36	0.99	0.80	26.14	1.13	1.06	1.09
340	3.67	3.04	3.35	0.63	0.67	26.01	1.13	1.06	1.09
360	3.49	3.19	3.34	0.30	0.58	25.88	1.12	1.05	1.09
380	3.35	3.34	3.34	0.01	0.47	25.76	1.12	1.05	1.09
400	3.23	3.48	3.35	0.25	0.39	25.61	1.13	1.05	1.09
420	3.12	3.61	3.37	0.48	0.31	25.43	1.13	1.06	1.10
440	3.04	3.72	3.38	0.67	0.22	25.23	1.13	1.07	1.11
460	2.98	3.81	3.39	0.83	0.16	25.05	1.14	1.08	1.12
480	2.93	3.90	3.42	0.97	0.10	24.85	1.15	1.09	1.13
500	2.89	3.96	3.43	1.07	0.04	24.64	1.15	1.10	1.14
520	2.87	4.01	3.44	1.14	0.01	24.43	1.16	1.11	1.14
530	2.86	4.04	3.45	1.17	0.05	24.31	1.16	1.11	1.15
560	2.87	4.07	3.47	1.20	0.11	23.94	1.17	1.13	1.16
580	2.89	4.08	3.49	1.19	0.17	23.68	1.18	1.14	1.17
600	2.93	4.06	3.50	1.14	0.23	23.41	1.19	1.15	1.18
620	2.98	4.04	3.51	1.06	0.29	23.15	1.19	1.16	1.19
640	3.06	3.99	3.53	0.94	0.34	22.88	1.20	1.17	1.19
660	3.15	3.94	3.54	0.79	0.41	22.62	1.21	1.18	1.20
680	3.25	3.86	3.56	0.61	0.51	22.37	1.21	1.19	1.21
700	3.38	3.76	3.57	0.38	0.62	22.14	1.22	1.21	1.21
750	3.83	3.47	3.65	0.36	1.03	21.69	1.25	1.24	1.24
800	4.50	3.08	3.79	1.42	1.77	21.40	1.29	1.30	1.28
850	5.52	2.65	4.08	2.88	2.95	21.50	1.36	1.36	1.34
900	7.08	2.20	4.64	4.89	4.95	22.29	1.43	1.44	1.41

¹ Total Loss = Insertion Loss+ 3dB Splitter Loss

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2 Way-90° Power Splitter/Combiner

QBA-07

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
100	10.49	0.55	5.52	9.94	1.94	32.09	1.06	1.07	1.08
125	8.88	0.78	4.83	8.10	1.82	30.77	1.11	1.10	1.12
150	7.65	1.03	4.34	6.62	1.71	30.30	1.11	1.10	1.11
175	6.67	1.28	3.97	5.39	1.63	29.51	1.10	1.09	1.09
200	5.90	1.54	3.72	4.36	1.60	28.39	1.11	1.09	1.10
225	5.28	1.81	3.54	3.47	1.53	27.70	1.13	1.09	1.11
250	4.77	2.06	3.41	2.71	1.42	27.83	1.13	1.08	1.10
275	4.34	2.31	3.33	2.04	1.33	27.85	1.11	1.07	1.08
300	3.99	2.54	3.26	1.45	1.27	27.44	1.10	1.07	1.07
320	3.76	2.72	3.24	1.04	1.19	26.95	1.11	1.06	1.08
340	3.56	2.89	3.23	0.66	1.09	26.58	1.12	1.05	1.08
360	3.38	3.05	3.22	0.33	1.04	26.46	1.12	1.04	1.08
380	3.23	3.20	3.22	0.03	1.00	26.40	1.11	1.03	1.09
400	3.10	3.33	3.21	0.23	0.96	26.16	1.11	1.03	1.09
420	2.99	3.46	3.23	0.46	0.93	25.80	1.11	1.03	1.10
440	2.91	3.57	3.24	0.65	0.89	25.43	1.12	1.05	1.10
460	2.84	3.66	3.25	0.82	0.86	25.19	1.13	1.06	1.11
480	2.78	3.74	3.26	0.96	0.82	25.00	1.13	1.06	1.12
500	2.73	3.80	3.27	1.07	0.77	24.75	1.14	1.07	1.12
520	2.71	3.85	3.28	1.14	0.72	24.40	1.15	1.09	1.13
530	2.70	3.88	3.29	1.18	0.70	24.21	1.15	1.09	1.13
560	2.69	3.91	3.30	1.22	0.69	23.77	1.17	1.11	1.15
580	2.70	3.92	3.31	1.22	0.67	23.51	1.17	1.13	1.16
600	2.74	3.90	3.32	1.17	0.68	23.25	1.18	1.14	1.16
620	2.78	3.88	3.33	1.10	0.67	22.90	1.19	1.15	1.17
640	2.84	3.84	3.34	1.00	0.63	22.46	1.20	1.17	1.17
660	2.92	3.78	3.35	0.86	0.62	22.16	1.21	1.18	1.18
680	3.01	3.70	3.36	0.69	0.57	21.93	1.21	1.18	1.19
700	3.12	3.61	3.36	0.49	0.56	21.76	1.21	1.19	1.20
750	3.52	3.31	3.42	0.22	0.36	21.16	1.24	1.23	1.22
800	4.14	2.93	3.53	1.20	0.07	20.77	1.28	1.27	1.26
850	5.08	2.49	3.78	2.59	0.82	20.71	1.34	1.35	1.31
900	6.52	2.02	4.27	4.50	2.39	21.24	1.42	1.41	1.39

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
100	10.47	0.71	5.59	9.76	2.07	30.27	1.12	1.11	1.14
125	8.89	0.94	4.91	7.94	1.88	28.73	1.12	1.11	1.13
150	7.68	1.21	4.44	6.47	1.78	27.21	1.14	1.12	1.14
175	6.74	1.48	4.11	5.26	1.65	26.25	1.17	1.14	1.17
200	5.99	1.75	3.87	4.24	1.49	26.07	1.18	1.13	1.17
225	5.38	2.02	3.70	3.36	1.33	25.94	1.16	1.11	1.15
250	4.88	2.28	3.58	2.60	1.15	25.63	1.15	1.11	1.13
275	4.48	2.54	3.51	1.95	0.93	25.10	1.16	1.10	1.13
300	4.15	2.78	3.46	1.37	0.78	24.95	1.16	1.09	1.13
320	3.92	2.96	3.44	0.96	0.63	25.06	1.15	1.08	1.12
340	3.72	3.13	3.42	0.59	0.48	25.08	1.14	1.07	1.11
360	3.55	3.29	3.42	0.26	0.37	25.02	1.14	1.07	1.10
380	3.41	3.44	3.43	0.03	0.24	24.88	1.14	1.07	1.10
400	3.30	3.58	3.44	0.28	0.14	24.69	1.15	1.08	1.11
420	3.19	3.71	3.45	0.51	0.05	24.59	1.15	1.09	1.11
440	3.12	3.82	3.47	0.70	0.00	24.53	1.15	1.09	1.12
460	3.06	3.92	3.49	0.86	0.06	24.45	1.16	1.10	1.13
480	3.01	4.00	3.50	0.99	0.19	24.30	1.16	1.11	1.14
500	2.97	4.06	3.52	1.08	0.29	24.11	1.17	1.12	1.15
520	2.96	4.11	3.54	1.15	0.40	23.92	1.18	1.13	1.16
530	2.95	4.13	3.54	1.18	0.43	23.81	1.18	1.14	1.17
560	2.96	4.16	3.56	1.20	0.51	23.59	1.19	1.15	1.18
580	2.99	4.16	3.58	1.17	0.60	23.33	1.20	1.17	1.19
600	3.04	4.14	3.59	1.11	0.68	23.14	1.21	1.17	1.20
620	3.10	4.12	3.61	1.02	0.76	22.96	1.21	1.18	1.21
640	3.18	4.07	3.62	0.90	0.87	22.70	1.22	1.19	1.21
660	3.28	4.00	3.64	0.72	0.98	22.56	1.22	1.20	1.22
680	3.39	3.92	3.66	0.53	1.12	22.35	1.23	1.21	1.23
700	3.54	3.83	3.68	0.29	1.24	22.16	1.24	1.23	1.24
750	4.02	3.53	3.77	0.49	1.80	21.85	1.27	1.26	1.27
800	4.75	3.16	3.95	1.59	2.69	21.76	1.32	1.32	1.31
850	5.86	2.74	4.30	3.13	4.06	22.03	1.39	1.40	1.37
900	7.55	2.30	4.92	5.25	6.58	23.17	1.46	1.47	1.44

¹ Total Loss = Insertion Loss+ 3dB Splitter Loss

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