

2 Way-90° Power Splitter/Combiner

QCN-12D+

Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS ¹ (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB) 1-2	VSWR (:1)		
	S-1	S-2				S	1	2
400	1.53	6.48	4.95	85.73	17.12	1.32	1.32	1.27
420	1.63	6.22	4.59	85.64	16.95	1.32	1.32	1.27
440	1.73	5.98	4.25	85.57	16.77	1.33	1.33	1.27
460	1.82	5.75	3.93	85.52	16.63	1.33	1.33	1.28
480	1.92	5.54	3.62	85.46	16.51	1.34	1.33	1.28
500	2.01	5.35	3.34	85.40	16.40	1.34	1.34	1.28
525	2.13	5.13	3.00	85.27	16.28	1.35	1.34	1.28
550	2.24	4.93	2.69	85.21	16.19	1.35	1.34	1.27
560	2.29	4.85	2.56	85.20	16.15	1.35	1.34	1.27
570	2.33	4.78	2.44	85.17	16.11	1.35	1.34	1.27
580	2.38	4.71	2.33	85.12	16.06	1.35	1.34	1.27
600	2.45	4.57	2.12	85.11	16.04	1.35	1.34	1.27
650	2.65	4.28	1.63	85.02	15.95	1.35	1.34	1.26
700	2.83	4.03	1.19	84.97	15.85	1.35	1.33	1.24
725	2.92	3.91	1.00	84.97	15.81	1.35	1.32	1.24
750	2.99	3.81	0.82	84.95	15.77	1.35	1.32	1.23
775	3.07	3.73	0.66	84.94	15.76	1.34	1.31	1.22
780	3.08	3.71	0.63	84.95	15.75	1.34	1.31	1.22
790	3.11	3.68	0.57	84.92	15.73	1.34	1.31	1.22
800	3.13	3.64	0.51	84.95	15.72	1.34	1.31	1.21
850	3.25	3.50	0.25	85.10	15.70	1.34	1.29	1.20
900	3.37	3.39	0.02	85.28	15.65	1.34	1.28	1.18
950	3.46	3.30	0.16	85.42	15.62	1.33	1.26	1.17
1000	3.53	3.24	0.29	85.42	15.54	1.33	1.24	1.15
1050	3.57	3.21	0.36	85.39	15.45	1.34	1.22	1.14
1100	3.58	3.20	0.38	85.54	15.34	1.34	1.20	1.14
1150	3.57	3.22	0.35	85.86	15.16	1.35	1.18	1.14
1200	3.54	3.26	0.27	86.19	14.98	1.35	1.16	1.15
1250	3.48	3.35	0.13	86.69	14.73	1.37	1.13	1.17
1300	3.40	3.47	0.07	87.20	14.42	1.38	1.12	1.20
1350	3.29	3.63	0.34	87.91	14.05	1.40	1.12	1.24
1375	3.23	3.74	0.50	88.37	13.85	1.41	1.12	1.26
1400	3.17	3.86	0.69	88.88	13.62	1.43	1.13	1.29
1450	3.03	4.14	1.12	90.18	13.14	1.46	1.17	1.35
1500	2.87	4.50	1.63	91.95	12.61	1.50	1.23	1.43
1550	2.72	4.97	2.25	94.27	12.04	1.55	1.32	1.52
1600	2.57	5.54	2.97	97.57	11.45	1.61	1.43	1.63

¹ Total Loss = Insertion Loss+ 3dB Splitter Loss

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2 Way-90° Power Splitter/Combiner

QCN-12D+

Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS ¹ (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB) 1-2	VSWR (:1)		
	S-1	S-2				S	1	2
400	1.40	6.41	5.00	86.19	17.10	1.30	1.29	1.25
420	1.50	6.14	4.64	86.07	16.86	1.31	1.31	1.25
440	1.60	5.89	4.30	85.96	16.67	1.32	1.31	1.26
460	1.69	5.67	3.98	85.88	16.52	1.33	1.32	1.26
480	1.79	5.46	3.68	85.82	16.42	1.34	1.33	1.27
500	1.88	5.27	3.39	85.79	16.32	1.34	1.32	1.27
525	2.00	5.04	3.04	85.65	16.16	1.35	1.33	1.27
550	2.10	4.83	2.73	85.57	16.06	1.35	1.33	1.27
560	2.15	4.75	2.60	85.53	16.02	1.35	1.33	1.27
570	2.19	4.68	2.48	85.49	15.96	1.35	1.34	1.27
580	2.24	4.61	2.37	85.42	15.91	1.36	1.34	1.27
600	2.31	4.48	2.17	85.44	15.91	1.36	1.33	1.27
650	2.50	4.17	1.67	85.39	15.83	1.36	1.34	1.26
700	2.68	3.91	1.23	85.26	15.71	1.36	1.33	1.25
725	2.77	3.80	1.03	85.27	15.65	1.36	1.32	1.25
750	2.84	3.69	0.85	85.27	15.58	1.36	1.33	1.24
775	2.91	3.60	0.68	85.24	15.57	1.35	1.33	1.22
780	2.92	3.58	0.65	85.22	15.56	1.35	1.33	1.22
790	2.95	3.54	0.59	85.16	15.54	1.35	1.32	1.22
800	2.97	3.51	0.54	85.19	15.52	1.35	1.32	1.22
850	3.09	3.37	0.28	85.38	15.45	1.35	1.30	1.21
900	3.21	3.25	0.04	85.57	15.34	1.36	1.30	1.19
950	3.30	3.16	0.14	85.67	15.31	1.35	1.28	1.18
1000	3.37	3.09	0.27	85.69	15.22	1.36	1.26	1.17
1050	3.41	3.05	0.35	85.59	15.13	1.36	1.24	1.15
1100	3.41	3.04	0.37	85.66	15.07	1.35	1.23	1.16
1150	3.39	3.05	0.34	86.00	14.87	1.37	1.21	1.16
1200	3.36	3.09	0.27	86.30	14.64	1.38	1.18	1.16
1250	3.30	3.17	0.12	86.81	14.44	1.39	1.17	1.18
1300	3.22	3.28	0.06	87.38	14.28	1.40	1.14	1.21
1350	3.10	3.42	0.32	88.02	13.98	1.41	1.14	1.25
1375	3.04	3.52	0.48	88.46	13.80	1.43	1.15	1.27
1400	2.97	3.63	0.65	88.97	13.60	1.44	1.16	1.30
1450	2.83	3.89	1.06	90.14	13.17	1.47	1.19	1.36
1500	2.67	4.24	1.57	91.81	12.73	1.51	1.25	1.44
1550	2.50	4.66	2.16	93.92	12.24	1.55	1.33	1.54
1600	2.34	5.21	2.86	96.91	11.68	1.60	1.44	1.67

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 (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB) 1-2	VSWR (:1)		
	S-1	S-2				S	1	2
400	1.59	6.50	4.91	85.19	16.99	1.34	1.35	1.30
420	1.69	6.24	4.55	85.10	16.90	1.34	1.35	1.30
440	1.78	6.00	4.22	85.07	16.79	1.35	1.36	1.30
460	1.88	5.78	3.90	85.06	16.66	1.35	1.36	1.30
480	1.98	5.58	3.60	85.03	16.53	1.35	1.36	1.31
500	2.07	5.38	3.31	85.00	16.43	1.35	1.35	1.30
525	2.19	5.16	2.97	84.85	16.29	1.35	1.36	1.30
550	2.29	4.96	2.67	84.81	16.25	1.35	1.36	1.29
560	2.33	4.88	2.54	84.80	16.24	1.35	1.35	1.29
570	2.38	4.81	2.43	84.76	16.20	1.35	1.35	1.29
580	2.42	4.74	2.32	84.71	16.16	1.35	1.35	1.29
600	2.50	4.61	2.11	84.75	16.19	1.35	1.35	1.29
650	2.69	4.31	1.62	84.71	16.12	1.35	1.34	1.27
700	2.87	4.06	1.19	84.66	16.06	1.34	1.33	1.25
725	2.95	3.94	0.99	84.71	16.09	1.33	1.32	1.24
750	3.03	3.85	0.82	84.70	16.06	1.33	1.31	1.23
775	3.10	3.75	0.65	84.71	16.10	1.33	1.30	1.22
780	3.11	3.74	0.62	84.70	16.08	1.32	1.30	1.22
790	3.14	3.70	0.56	84.67	16.06	1.32	1.30	1.21
800	3.17	3.67	0.51	84.72	16.05	1.32	1.30	1.21
850	3.29	3.53	0.24	84.93	16.04	1.32	1.28	1.19
900	3.40	3.42	0.01	85.16	16.01	1.31	1.26	1.17
950	3.50	3.33	0.17	85.35	15.98	1.31	1.24	1.15
1000	3.58	3.27	0.31	85.35	15.88	1.31	1.22	1.14
1050	3.62	3.25	0.37	85.25	15.75	1.31	1.20	1.13
1100	3.63	3.25	0.39	85.39	15.61	1.32	1.18	1.13
1150	3.62	3.27	0.35	85.74	15.41	1.32	1.15	1.14
1200	3.59	3.32	0.26	86.10	15.17	1.33	1.13	1.15
1250	3.54	3.42	0.12	86.66	14.85	1.35	1.10	1.18
1300	3.46	3.55	0.09	87.21	14.48	1.36	1.09	1.21
1350	3.35	3.73	0.38	87.96	14.02	1.39	1.09	1.25
1375	3.29	3.84	0.55	88.46	13.78	1.40	1.10	1.27
1400	3.23	3.97	0.74	89.05	13.52	1.42	1.11	1.30
1450	3.09	4.27	1.18	90.44	12.98	1.45	1.16	1.36
1500	2.94	4.65	1.71	92.37	12.42	1.49	1.23	1.43
1550	2.80	5.13	2.33	94.91	11.80	1.55	1.32	1.51
1600	2.67	5.73	3.06	98.42	11.20	1.61	1.43	1.61

¹ Total Loss = Insertion Loss+ 3dB Splitter Loss

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