

2 Way-90° Power Splitter/Combiner

QCN-7D+

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
150	0.94	8.51	7.57	2.99	20.51	1.24	1.25	1.22
200	1.41	6.73	5.32	3.50	19.06	1.29	1.30	1.26
250	1.88	5.56	3.68	3.85	18.27	1.32	1.33	1.29
300	2.32	4.75	2.43	4.07	17.80	1.33	1.34	1.30
325	2.52	4.46	1.94	4.15	17.67	1.33	1.34	1.30
350	2.69	4.20	1.50	4.17	17.57	1.32	1.34	1.30
375	2.86	3.98	1.12	4.20	17.48	1.32	1.34	1.30
400	3.01	3.80	0.79	4.20	17.41	1.32	1.34	1.30
425	3.15	3.66	0.51	4.16	17.34	1.31	1.33	1.30
450	3.26	3.54	0.28	4.12	17.26	1.31	1.33	1.30
475	3.36	3.46	0.10	4.05	17.21	1.30	1.33	1.31
500	3.43	3.39	0.04	3.95	17.13	1.30	1.33	1.31
525	3.49	3.36	0.13	3.82	17.03	1.30	1.34	1.32
550	3.52	3.35	0.17	3.67	16.90	1.30	1.34	1.33
575	3.53	3.38	0.15	3.44	16.75	1.31	1.35	1.35
600	3.52	3.43	0.09	3.15	16.55	1.32	1.37	1.38
625	3.50	3.52	0.02	2.76	16.31	1.33	1.39	1.41
650	3.44	3.65	0.21	2.25	16.01	1.36	1.42	1.45
675	3.37	3.84	0.47	1.59	15.64	1.39	1.46	1.50
700	3.28	4.08	0.80	0.68	15.21	1.43	1.51	1.56
725	3.18	4.40	1.21	0.55	14.72	1.48	1.57	1.65
750	3.08	4.80	1.72	2.27	14.16	1.56	1.65	1.75
775	2.98	5.33	2.34	4.71	13.53	1.65	1.76	1.88
800	2.91	5.97	3.07	8.21	12.86	1.76	1.88	2.04

¹ Total Loss = Insertion Loss+ 3dB Splitter Loss

REV. X2
QCN-7D+
100727
Page 1 of 3



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2 Way-90° Power Splitter/Combiner

QCN-7D+

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 (:1)		
	S-1	S-2				S	1	2
150	0.86	8.51	7.65	2.95	20.72	1.21	1.23	1.21
200	1.33	6.72	5.39	3.53	19.31	1.28	1.29	1.23
250	1.78	5.52	3.74	3.96	18.57	1.29	1.29	1.27
300	2.22	4.70	2.48	4.27	17.92	1.31	1.32	1.30
325	2.43	4.39	1.96	4.40	17.73	1.32	1.33	1.29
350	2.60	4.13	1.52	4.53	17.64	1.33	1.34	1.29
375	2.77	3.91	1.14	4.64	17.58	1.33	1.33	1.29
400	2.92	3.72	0.80	4.70	17.54	1.32	1.32	1.30
425	3.05	3.57	0.52	4.68	17.45	1.31	1.32	1.31
450	3.17	3.45	0.28	4.66	17.33	1.31	1.32	1.31
475	3.27	3.36	0.09	4.68	17.22	1.31	1.33	1.31
500	3.34	3.29	0.05	4.66	17.12	1.31	1.34	1.31
525	3.40	3.25	0.15	4.61	17.01	1.31	1.34	1.32
550	3.43	3.24	0.19	4.53	16.90	1.31	1.34	1.33
575	3.44	3.26	0.18	4.36	16.75	1.31	1.35	1.35
600	3.43	3.30	0.13	4.13	16.56	1.32	1.37	1.37
625	3.41	3.38	0.03	3.85	16.33	1.33	1.39	1.40
650	3.35	3.50	0.15	3.45	16.03	1.35	1.42	1.44
675	3.28	3.67	0.39	2.89	15.65	1.38	1.46	1.49
700	3.19	3.89	0.70	2.07	15.21	1.43	1.51	1.56
725	3.09	4.19	1.09	1.04	14.72	1.48	1.57	1.64
750	2.99	4.57	1.58	0.46	14.16	1.55	1.65	1.74
775	2.88	5.07	2.19	2.62	13.54	1.64	1.75	1.87
800	2.79	5.68	2.89	5.74	12.87	1.75	1.87	2.04

¹ Total Loss = Insertion Loss+ 3dB Splitter Loss

REV. X2
QCN-7D+
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Page 2 of 3



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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. From 90° (deg.)	ISOLATION (dB) 1-2	VSWR (:1)		
	S-1	S-2				S	1	2
150	0.99	8.49	7.50	3.08	20.20	1.27	1.29	1.23
200	1.47	6.73	5.26	3.53	18.70	1.30	1.31	1.29
250	1.96	5.59	3.63	3.83	17.80	1.35	1.37	1.32
300	2.39	4.80	2.41	3.94	17.48	1.36	1.38	1.30
325	2.59	4.50	1.91	3.97	17.44	1.35	1.37	1.31
350	2.75	4.24	1.48	3.93	17.39	1.33	1.36	1.32
375	2.92	4.03	1.11	3.87	17.30	1.32	1.35	1.33
400	3.07	3.85	0.79	3.76	17.20	1.32	1.36	1.32
425	3.20	3.72	0.52	3.66	17.13	1.32	1.36	1.31
450	3.32	3.60	0.29	3.55	17.08	1.32	1.36	1.31
475	3.40	3.52	0.11	3.44	17.08	1.31	1.35	1.31
500	3.47	3.45	0.02	3.27	17.06	1.30	1.34	1.33
525	3.52	3.43	0.09	3.04	17.00	1.29	1.34	1.34
550	3.55	3.43	0.12	2.76	16.88	1.29	1.34	1.36
575	3.57	3.46	0.11	2.44	16.71	1.30	1.36	1.37
600	3.56	3.52	0.04	2.05	16.49	1.32	1.38	1.39
625	3.54	3.62	0.08	1.60	16.26	1.34	1.40	1.42
650	3.48	3.76	0.28	0.99	15.96	1.36	1.43	1.47
675	3.41	3.96	0.55	0.18	15.61	1.39	1.46	1.52
700	3.32	4.21	0.89	0.93	15.16	1.43	1.51	1.59
725	3.23	4.54	1.31	2.34	14.69	1.49	1.58	1.67
750	3.13	4.97	1.84	4.27	14.11	1.56	1.66	1.77
775	3.04	5.51	2.47	6.95	13.48	1.65	1.76	1.89
800	2.97	6.18	3.21	10.80	12.80	1.76	1.88	2.05

¹ Total Loss = Insertion Loss+ 3dB Splitter Loss

REV. X2
QCN-7D+
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Page 3 of 3



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