

# 2 Way-90° Power Splitter/Combiner

# QCN-25

## Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS <sup>1</sup> (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. From 90° (deg.)	ISOLATION (dB) 1-2	VSWR (:1)		
	S-1	S-2				S	1	2
700	1.50	6.44	4.93	2.72	19.99	1.24	1.23	1.23
750	1.64	6.06	4.42	2.72	19.89	1.24	1.24	1.23
800	1.78	5.73	3.95	2.72	19.85	1.23	1.24	1.22
850	1.91	5.43	3.51	2.69	19.93	1.23	1.23	1.22
900	2.04	5.15	3.11	2.62	20.01	1.23	1.23	1.22
950	2.17	4.91	2.73	2.55	20.18	1.22	1.23	1.21
1000	2.29	4.68	2.39	2.52	20.42	1.22	1.22	1.20
1050	2.42	4.48	2.07	2.45	20.67	1.21	1.21	1.19
1100	2.53	4.30	1.77	2.36	20.99	1.20	1.21	1.18
1150	2.64	4.13	1.49	2.28	21.38	1.19	1.20	1.17
1200	2.74	3.98	1.24	2.19	21.83	1.18	1.19	1.16
1250	2.85	3.84	1.00	2.09	22.30	1.17	1.18	1.15
1300	2.94	3.72	0.78	2.05	22.87	1.16	1.16	1.14
1350	3.04	3.61	0.57	1.96	23.50	1.15	1.15	1.13
1400	3.12	3.51	0.38	1.92	24.22	1.14	1.14	1.11
1450	3.20	3.42	0.21	1.85	24.96	1.13	1.13	1.10
1500	3.28	3.34	0.06	1.81	25.85	1.11	1.12	1.09
1550	3.35	3.27	0.08	1.77	26.89	1.10	1.11	1.07
1600	3.41	3.21	0.20	1.73	27.99	1.09	1.10	1.06
1650	3.47	3.16	0.31	1.66	29.40	1.07	1.09	1.05
1700	3.52	3.12	0.39	1.63	31.16	1.06	1.08	1.04
1750	3.56	3.09	0.47	1.63	33.33	1.05	1.07	1.02
1800	3.59	3.07	0.53	1.62	36.26	1.03	1.05	1.01
1850	3.62	3.05	0.57	1.66	40.98	1.02	1.05	1.01
1900	3.64	3.05	0.59	1.63	52.27	1.01	1.04	1.02
1950	3.65	3.05	0.61	1.59	46.63	1.01	1.03	1.03
2000	3.66	3.05	0.60	1.61	38.66	1.03	1.03	1.04
2050	3.65	3.08	0.57	1.59	34.62	1.04	1.03	1.05
2100	3.64	3.11	0.53	1.57	31.84	1.05	1.04	1.07
2150	3.62	3.15	0.47	1.53	29.74	1.07	1.05	1.08
2200	3.59	3.20	0.38	1.52	28.00	1.08	1.06	1.10
2250	3.55	3.27	0.28	1.46	26.60	1.10	1.07	1.11
2300	3.50	3.34	0.16	1.38	25.40	1.12	1.09	1.13
2350	3.45	3.43	0.02	1.27	24.33	1.14	1.10	1.14
2400	3.39	3.53	0.14	1.19	23.44	1.16	1.12	1.16
2450	3.32	3.64	0.32	1.04	22.62	1.18	1.13	1.18
2500	3.25	3.77	0.53	0.87	21.92	1.21	1.15	1.20
2550	3.17	3.92	0.76	0.67	21.21	1.23	1.17	1.23
2600	3.08	4.09	1.01	0.46	20.62	1.26	1.19	1.25
2650	2.99	4.27	1.28	0.20	20.09	1.29	1.22	1.27
2700	2.90	4.48	1.58	0.11	19.56	1.32	1.24	1.30
2750	2.80	4.71	1.91	0.46	19.11	1.35	1.27	1.33
2800	2.70	4.97	2.27	0.88	18.69	1.38	1.30	1.36
2850	2.60	5.26	2.66	1.36	18.29	1.41	1.33	1.39
2900	2.50	5.58	3.08	1.92	17.92	1.45	1.37	1.42
2950	2.39	5.94	3.54	2.58	17.61	1.48	1.40	1.45
3000	2.29	6.33	4.05	3.30	17.33	1.52	1.44	1.48
3050	2.19	6.77	4.59	4.11	17.06	1.55	1.47	1.51
3100	2.08	7.27	5.19	5.07	16.86	1.59	1.51	1.54
3150	1.98	7.83	5.85	6.17	16.72	1.62	1.54	1.57
3200	1.88	8.46	6.58	7.41	16.63	1.65	1.57	1.60

<sup>1</sup> Total Loss = Insertion Loss+ 3dB Splitter Loss

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# 2 Way-90° Power Splitter/Combiner

# QCN-25

## Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS <sup>1</sup> (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. From 90° (deg.)	ISOLATION (dB) 1-2	VSWR (:1)		
	S-1	S-2				S	1	2
700	1.36	6.34	4.97	2.29	19.88	1.23	1.23	1.23
750	1.50	5.95	4.45	2.24	19.75	1.23	1.23	1.23
800	1.63	5.61	3.97	2.28	19.64	1.23	1.24	1.23
850	1.76	5.31	3.55	2.23	19.63	1.23	1.24	1.23
900	1.89	5.02	3.13	2.16	19.70	1.24	1.24	1.22
950	2.01	4.78	2.77	2.17	19.81	1.23	1.24	1.23
1000	2.13	4.55	2.42	2.07	19.88	1.23	1.23	1.22
1050	2.25	4.35	2.10	2.03	20.08	1.23	1.23	1.21
1100	2.35	4.16	1.81	1.93	20.39	1.22	1.23	1.21
1150	2.47	3.99	1.52	1.83	20.65	1.22	1.22	1.20
1200	2.56	3.84	1.28	1.76	20.83	1.22	1.22	1.20
1250	2.66	3.70	1.04	1.64	21.15	1.21	1.21	1.19
1300	2.75	3.58	0.83	1.54	21.69	1.20	1.20	1.18
1350	2.83	3.45	0.62	1.41	22.33	1.18	1.19	1.17
1400	2.91	3.35	0.43	1.31	22.86	1.16	1.17	1.16
1450	2.99	3.26	0.27	1.20	23.46	1.15	1.17	1.15
1500	3.06	3.17	0.11	1.10	24.33	1.13	1.15	1.13
1550	3.13	3.10	0.03	0.98	25.06	1.12	1.14	1.11
1600	3.18	3.02	0.16	0.90	26.40	1.10	1.13	1.10
1650	3.24	2.96	0.28	0.83	27.71	1.08	1.11	1.09
1700	3.29	2.92	0.37	0.73	28.96	1.07	1.11	1.07
1750	3.33	2.87	0.46	0.73	31.03	1.06	1.09	1.06
1800	3.36	2.84	0.53	0.71	33.04	1.05	1.08	1.06
1850	3.39	2.81	0.58	0.74	34.98	1.05	1.08	1.06
1900	3.41	2.80	0.61	0.75	35.73	1.05	1.07	1.06
1950	3.42	2.79	0.63	0.77	33.69	1.07	1.07	1.07
2000	3.43	2.80	0.63	0.84	31.71	1.07	1.07	1.08
2050	3.42	2.82	0.60	0.87	30.04	1.07	1.08	1.09
2100	3.41	2.85	0.56	0.87	27.61	1.10	1.09	1.11
2150	3.38	2.89	0.49	0.92	25.88	1.11	1.10	1.13
2200	3.34	2.94	0.41	0.95	24.87	1.12	1.11	1.16
2250	3.30	3.01	0.30	0.92	23.56	1.13	1.13	1.19
2300	3.25	3.08	0.17	0.83	22.42	1.15	1.14	1.21
2350	3.19	3.18	0.02	0.67	21.45	1.18	1.16	1.24
2400	3.12	3.29	0.16	0.51	20.66	1.20	1.18	1.27
2450	3.06	3.40	0.34	0.18	19.97	1.23	1.20	1.30
2500	2.98	3.54	0.55	0.12	19.36	1.26	1.23	1.33
2550	2.90	3.68	0.78	0.45	18.74	1.28	1.24	1.36
2600	2.82	3.85	1.03	0.85	18.05	1.33	1.28	1.39
2650	2.74	4.03	1.29	1.36	17.71	1.35	1.30	1.43
2700	2.65	4.22	1.57	1.85	17.31	1.38	1.32	1.46
2750	2.58	4.44	1.86	2.41	16.86	1.43	1.36	1.48
2800	2.49	4.67	2.18	3.03	16.56	1.46	1.39	1.51
2850	2.40	4.91	2.51	3.67	16.26	1.48	1.41	1.53
2900	2.30	5.15	2.84	4.28	16.09	1.49	1.42	1.54
2950	2.20	5.43	3.23	4.80	15.94	1.51	1.44	1.54
3000	2.09	5.75	3.66	5.39	15.74	1.53	1.45	1.55
3050	1.97	6.07	4.10	5.94	15.71	1.52	1.44	1.53
3100	1.84	6.46	4.62	6.37	15.65	1.52	1.45	1.51
3150	1.69	6.90	5.21	6.81	15.69	1.50	1.42	1.49
3200	1.55	7.43	5.88	7.37	15.91	1.49	1.41	1.46

<sup>1</sup> Total Loss = Insertion Loss+ 3dB Splitter Loss



# 2 Way-90° Power Splitter/Combiner

# QCN-25

## Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS <sup>1</sup> (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. From 90° (deg.)	ISOLATION (dB)	VSWR (:1)		
	S-1	S-2				S	1	2
700	1.57	6.48	4.91	3.13	20.17	1.25	1.25	1.25
750	1.70	6.10	4.40	3.09	20.21	1.25	1.25	1.24
800	1.84	5.77	3.93	3.03	20.28	1.24	1.24	1.23
850	1.98	5.46	3.49	2.97	20.46	1.23	1.23	1.22
900	2.11	5.19	3.08	2.91	20.64	1.22	1.23	1.20
950	2.23	4.94	2.70	2.84	20.91	1.21	1.22	1.19
1000	2.36	4.71	2.35	2.77	21.27	1.20	1.21	1.18
1050	2.48	4.51	2.03	2.69	21.67	1.18	1.19	1.16
1100	2.59	4.32	1.73	2.64	22.05	1.17	1.18	1.15
1150	2.71	4.16	1.45	2.57	22.62	1.16	1.17	1.13
1200	2.82	4.01	1.19	2.49	23.27	1.15	1.15	1.12
1250	2.93	3.87	0.95	2.43	23.87	1.14	1.14	1.10
1300	3.03	3.75	0.72	2.43	24.58	1.12	1.12	1.09
1350	3.13	3.64	0.52	2.38	25.33	1.11	1.11	1.07
1400	3.22	3.55	0.33	2.36	26.18	1.10	1.10	1.06
1450	3.30	3.47	0.17	2.35	27.08	1.09	1.09	1.05
1500	3.38	3.40	0.01	2.35	28.05	1.08	1.07	1.04
1550	3.46	3.34	0.12	2.31	29.16	1.07	1.06	1.03
1600	3.52	3.29	0.24	2.31	30.19	1.06	1.05	1.04
1650	3.58	3.24	0.34	2.29	31.12	1.05	1.04	1.05
1700	3.63	3.21	0.42	2.27	31.87	1.05	1.03	1.06
1750	3.68	3.19	0.49	2.27	32.22	1.04	1.03	1.07
1800	3.71	3.17	0.54	2.26	32.30	1.04	1.02	1.08
1850	3.74	3.17	0.57	2.27	32.05	1.04	1.02	1.09
1900	3.76	3.17	0.59	2.23	31.65	1.05	1.02	1.10
1950	3.77	3.18	0.59	2.17	31.01	1.06	1.02	1.11
2000	3.78	3.20	0.58	2.14	30.28	1.07	1.02	1.12
2050	3.77	3.23	0.55	2.10	29.70	1.08	1.03	1.13
2100	3.76	3.26	0.50	2.04	29.03	1.09	1.03	1.14
2150	3.74	3.30	0.44	1.96	28.45	1.09	1.04	1.14
2200	3.71	3.35	0.36	1.93	27.89	1.10	1.04	1.15
2250	3.68	3.42	0.26	1.88	27.39	1.11	1.05	1.15
2300	3.63	3.49	0.14	1.78	26.94	1.11	1.05	1.15
2350	3.58	3.57	0.01	1.66	26.53	1.12	1.05	1.15
2400	3.52	3.67	0.15	1.61	26.24	1.13	1.06	1.15
2450	3.45	3.78	0.33	1.50	25.79	1.14	1.06	1.15
2500	3.37	3.90	0.53	1.36	25.31	1.15	1.07	1.15
2550	3.29	4.04	0.75	1.23	24.91	1.16	1.08	1.15
2600	3.19	4.19	1.00	1.10	24.71	1.17	1.09	1.14
2650	3.09	4.37	1.28	0.97	24.36	1.18	1.10	1.14
2700	2.99	4.57	1.59	0.78	23.84	1.20	1.12	1.15
2750	2.88	4.81	1.92	0.57	23.44	1.22	1.13	1.15
2800	2.77	5.07	2.30	0.33	22.94	1.24	1.15	1.16
2850	2.65	5.38	2.72	0.06	22.30	1.27	1.18	1.18
2900	2.54	5.72	3.18	0.31	21.64	1.31	1.21	1.21
2950	2.43	6.12	3.70	0.81	21.05	1.35	1.25	1.25
3000	2.32	6.58	4.27	1.42	20.45	1.40	1.30	1.30
3050	2.21	7.10	4.89	2.18	19.84	1.45	1.35	1.36
3100	2.12	7.71	5.59	3.17	19.35	1.51	1.41	1.42
3150	2.04	8.40	6.35	4.52	18.95	1.57	1.48	1.50
3200	1.98	9.18	7.20	6.13	18.58	1.65	1.56	1.59

<sup>1</sup> Total Loss = Insertion Loss+ 3dB Splitter Loss

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