

# 2 Way-90° Power Splitter/Combiner

# QCN-34+

## Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS <sup>1</sup> (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB)	VSWR (:1)		
	S-1	S-2				S	1	2
1300	1.73	5.87	4.13	87.62	19.87	1.18	1.19	1.22
1350	1.81	5.68	3.87	87.60	19.92	1.18	1.19	1.22
1400	1.89	5.51	3.62	87.64	20.02	1.18	1.19	1.22
1450	1.97	5.34	3.38	87.66	20.12	1.18	1.19	1.22
1500	2.04	5.19	3.15	87.70	20.19	1.17	1.19	1.22
1550	2.12	5.05	2.93	87.73	20.35	1.17	1.18	1.22
1600	2.19	4.92	2.73	87.78	20.48	1.17	1.18	1.23
1650	2.26	4.79	2.53	87.80	20.67	1.17	1.18	1.22
1700	2.33	4.67	2.34	87.83	20.87	1.16	1.17	1.22
1750	2.40	4.56	2.17	87.89	21.05	1.16	1.17	1.22
1800	2.46	4.46	2.00	87.92	21.28	1.15	1.16	1.22
1850	2.53	4.37	1.84	88.00	21.56	1.15	1.16	1.22
1900	2.59	4.28	1.69	88.04	21.80	1.14	1.15	1.21
1950	2.65	4.19	1.54	88.12	22.11	1.14	1.15	1.21
2000	2.71	4.12	1.41	88.14	22.45	1.13	1.14	1.21
2050	2.76	4.04	1.28	88.22	22.74	1.13	1.14	1.20
2100	2.82	3.97	1.16	88.25	23.10	1.12	1.13	1.19
2150	2.87	3.91	1.05	88.32	23.51	1.11	1.13	1.19
2200	2.92	3.85	0.93	88.36	23.96	1.11	1.12	1.19
2250	2.96	3.80	0.83	88.44	24.46	1.10	1.12	1.18
2300	3.01	3.75	0.74	88.50	24.92	1.10	1.11	1.18
2350	3.05	3.70	0.65	88.58	25.44	1.09	1.11	1.17
2400	3.09	3.66	0.57	88.60	26.01	1.08	1.10	1.17
2450	3.13	3.62	0.49	88.67	26.57	1.08	1.09	1.16
2500	3.16	3.59	0.43	88.72	27.21	1.07	1.09	1.16
2550	3.20	3.56	0.36	88.77	27.89	1.07	1.09	1.15
2600	3.23	3.53	0.31	88.83	28.54	1.06	1.08	1.15
2650	3.26	3.51	0.26	88.87	29.28	1.06	1.08	1.15
2700	3.28	3.50	0.22	88.92	29.98	1.06	1.08	1.14
2750	3.30	3.48	0.18	88.98	30.73	1.06	1.08	1.14
2800	3.32	3.47	0.15	89.03	31.46	1.06	1.07	1.14
2850	3.33	3.46	0.13	89.07	32.03	1.05	1.07	1.14
2900	3.34	3.46	0.12	89.14	32.72	1.05	1.08	1.13
2950	3.35	3.46	0.11	89.20	33.34	1.05	1.08	1.13
3000	3.36	3.47	0.11	89.26	33.50	1.05	1.08	1.13
3050	3.36	3.47	0.11	89.29	33.40	1.06	1.08	1.13
3100	3.36	3.48	0.12	89.36	33.46	1.06	1.09	1.13
3150	3.36	3.49	0.14	89.39	33.36	1.06	1.09	1.13
3200	3.35	3.51	0.16	89.49	33.06	1.07	1.09	1.13
3250	3.34	3.54	0.19	89.53	32.77	1.07	1.10	1.13
3300	3.33	3.56	0.22	89.62	32.40	1.07	1.10	1.12
3350	3.32	3.59	0.27	89.68	31.98	1.07	1.11	1.12
3400	3.30	3.62	0.32	89.75	31.60	1.08	1.12	1.12
3500	3.26	3.70	0.44	89.91	30.57	1.08	1.13	1.12
3600	3.21	3.79	0.59	90.07	29.72	1.08	1.14	1.12
3700	3.14	3.90	0.76	90.29	29.13	1.09	1.16	1.12
3800	3.06	4.03	0.96	90.48	28.48	1.09	1.17	1.11
3900	2.98	4.18	1.21	90.71	27.97	1.09	1.18	1.11
4000	2.88	4.36	1.48	90.99	27.70	1.10	1.19	1.11
4250	2.61	4.92	2.32	91.73	27.39	1.11	1.21	1.10
4500	2.29	5.71	3.42	92.84	26.87	1.13	1.22	1.10
4750	1.96	6.79	4.82	94.44	26.08	1.17	1.21	1.12
5000	1.67	8.28	6.60	97.16	24.98	1.23	1.22	1.16

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

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# 2 Way-90° Power Splitter/Combiner

# QCN-34+

## Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS <sup>1</sup> (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB)	VSWR (:1)		
	S-1	S-2				S	1	2
1300	1.54	5.72	4.18	87.77	19.36	1.21	1.23	1.25
1350	1.62	5.54	3.92	87.71	19.38	1.22	1.23	1.26
1400	1.69	5.36	3.67	87.76	19.44	1.21	1.23	1.27
1450	1.76	5.20	3.44	87.76	19.48	1.22	1.23	1.27
1500	1.83	5.05	3.22	87.79	19.60	1.22	1.23	1.27
1550	1.90	4.90	3.01	87.85	19.74	1.22	1.23	1.27
1600	1.96	4.77	2.81	87.95	20.02	1.20	1.22	1.27
1650	2.02	4.63	2.61	88.02	20.31	1.19	1.22	1.26
1700	2.08	4.51	2.43	88.08	20.52	1.19	1.22	1.26
1750	2.14	4.39	2.26	88.20	20.87	1.18	1.21	1.25
1800	2.19	4.28	2.08	88.27	21.22	1.17	1.20	1.23
1850	2.25	4.17	1.93	88.42	21.69	1.16	1.18	1.22
1900	2.30	4.07	1.77	88.56	22.09	1.15	1.17	1.21
1950	2.35	3.97	1.62	88.68	22.61	1.13	1.16	1.19
2000	2.41	3.88	1.47	88.76	23.30	1.11	1.15	1.18
2050	2.46	3.80	1.34	88.82	23.73	1.11	1.14	1.16
2100	2.51	3.72	1.21	88.90	24.47	1.10	1.13	1.14
2150	2.55	3.64	1.09	89.00	25.50	1.08	1.11	1.12
2200	2.60	3.57	0.97	89.01	26.22	1.07	1.10	1.10
2250	2.65	3.51	0.86	89.10	27.14	1.06	1.09	1.08
2300	2.69	3.44	0.75	89.14	28.24	1.05	1.08	1.07
2350	2.74	3.40	0.66	89.19	29.23	1.04	1.07	1.06
2400	2.78	3.35	0.57	89.18	30.55	1.03	1.07	1.05
2450	2.81	3.30	0.49	89.26	31.30	1.02	1.07	1.06
2500	2.85	3.27	0.42	89.26	31.94	1.02	1.08	1.07
2550	2.88	3.24	0.36	89.24	33.20	1.02	1.09	1.08
2600	2.91	3.21	0.30	89.25	32.51	1.04	1.10	1.09
2650	2.94	3.19	0.25	89.29	31.16	1.05	1.11	1.11
2700	2.97	3.18	0.21	89.33	31.14	1.06	1.12	1.14
2750	2.99	3.16	0.17	89.39	29.97	1.08	1.13	1.16
2800	3.02	3.16	0.14	89.43	28.60	1.10	1.15	1.18
2850	3.04	3.15	0.11	89.44	27.77	1.12	1.17	1.22
2900	3.06	3.15	0.09	89.51	27.08	1.13	1.17	1.25
2950	3.07	3.16	0.08	89.57	26.78	1.14	1.18	1.27
3000	3.09	3.17	0.08	89.64	25.95	1.16	1.19	1.29
3050	3.10	3.17	0.07	89.71	25.23	1.18	1.19	1.33
3100	3.11	3.19	0.08	89.78	24.93	1.19	1.20	1.35
3150	3.12	3.20	0.09	89.77	24.58	1.20	1.19	1.38
3200	3.11	3.22	0.11	89.79	24.58	1.20	1.18	1.40
3250	3.11	3.24	0.14	89.79	24.22	1.21	1.18	1.42
3300	3.11	3.26	0.15	89.83	23.84	1.22	1.19	1.44
3350	3.09	3.28	0.19	89.83	23.98	1.21	1.20	1.43
3400	3.06	3.30	0.24	89.81	24.13	1.20	1.20	1.43
3500	3.00	3.36	0.37	89.86	24.52	1.19	1.19	1.42
3600	2.92	3.43	0.52	89.86	25.22	1.14	1.21	1.38
3700	2.83	3.51	0.68	90.00	25.87	1.10	1.24	1.32
3800	2.71	3.61	0.90	90.08	27.62	1.05	1.23	1.26
3900	2.60	3.74	1.14	90.21	29.22	1.05	1.24	1.20
4000	2.48	3.89	1.41	90.39	32.94	1.09	1.23	1.18
4250	2.18	4.45	2.26	90.93	38.78	1.24	1.16	1.24
4500	1.89	5.27	3.38	91.76	26.90	1.36	1.23	1.34
4750	1.60	6.45	4.84	93.55	23.21	1.46	1.42	1.48
5000	1.42	7.98	6.56	97.44	21.28	1.57	1.59	1.69

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



# 2 Way-90° Power Splitter/Combiner

# QCN-34+

## Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS <sup>1</sup> (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB)	VSWR (:1)		
	S-1	S-2				S	1	2
1300	1.79	5.86	4.08	87.89	20.53	1.14	1.15	1.18
1350	1.87	5.67	3.81	87.85	20.54	1.14	1.15	1.18
1400	1.95	5.50	3.55	87.90	20.66	1.13	1.15	1.17
1450	2.03	5.33	3.30	87.92	20.73	1.13	1.15	1.17
1500	2.11	5.18	3.07	87.95	20.78	1.13	1.14	1.17
1550	2.19	5.04	2.85	88.00	20.93	1.12	1.14	1.17
1600	2.27	4.91	2.64	88.03	21.00	1.12	1.14	1.18
1650	2.35	4.79	2.44	88.02	21.15	1.12	1.13	1.18
1700	2.42	4.67	2.24	88.04	21.31	1.12	1.13	1.18
1750	2.50	4.56	2.06	88.06	21.33	1.12	1.13	1.19
1800	2.58	4.47	1.89	88.06	21.42	1.12	1.13	1.20
1850	2.65	4.38	1.73	88.08	21.56	1.12	1.13	1.21
1900	2.72	4.30	1.58	88.08	21.64	1.13	1.14	1.22
1950	2.79	4.22	1.43	88.09	21.73	1.14	1.13	1.23
2000	2.86	4.16	1.30	88.08	21.80	1.14	1.13	1.24
2050	2.92	4.09	1.17	88.07	21.87	1.15	1.14	1.25
2100	2.98	4.04	1.06	88.11	21.95	1.15	1.14	1.27
2150	3.04	3.99	0.95	88.13	22.01	1.16	1.14	1.28
2200	3.10	3.94	0.85	88.15	22.17	1.16	1.14	1.29
2250	3.15	3.90	0.75	88.18	22.30	1.17	1.14	1.30
2300	3.19	3.86	0.67	88.18	22.44	1.17	1.15	1.31
2350	3.24	3.84	0.59	88.27	22.60	1.18	1.15	1.32
2400	3.28	3.81	0.52	88.30	22.81	1.18	1.15	1.33
2450	3.32	3.78	0.46	88.37	23.04	1.18	1.15	1.33
2500	3.35	3.76	0.41	88.43	23.35	1.18	1.15	1.33
2550	3.38	3.73	0.35	88.52	23.50	1.18	1.15	1.33
2600	3.41	3.71	0.31	88.60	23.64	1.18	1.15	1.32
2650	3.43	3.70	0.27	88.68	24.01	1.17	1.16	1.32
2700	3.45	3.69	0.24	88.79	24.40	1.16	1.16	1.31
2750	3.46	3.67	0.21	88.92	24.82	1.15	1.16	1.30
2800	3.48	3.67	0.19	89.01	25.19	1.15	1.17	1.28
2850	3.48	3.66	0.17	89.11	25.60	1.13	1.17	1.26
2900	3.49	3.65	0.17	89.22	26.25	1.12	1.17	1.24
2950	3.49	3.65	0.16	89.34	26.81	1.10	1.17	1.22
3000	3.50	3.65	0.16	89.43	27.21	1.09	1.17	1.19
3050	3.49	3.65	0.16	89.51	28.02	1.08	1.17	1.17
3100	3.49	3.66	0.17	89.64	28.95	1.07	1.16	1.15
3150	3.49	3.67	0.19	89.69	29.77	1.06	1.16	1.13
3200	3.48	3.69	0.21	89.79	30.79	1.07	1.14	1.12
3250	3.47	3.71	0.24	89.87	31.94	1.08	1.13	1.12
3300	3.46	3.74	0.28	89.97	33.21	1.10	1.12	1.12
3350	3.45	3.77	0.32	90.02	34.36	1.11	1.10	1.12
3400	3.44	3.81	0.38	90.08	34.95	1.13	1.08	1.14
3500	3.40	3.91	0.51	90.21	33.56	1.18	1.05	1.17
3600	3.36	4.04	0.69	90.37	30.65	1.22	1.06	1.20
3700	3.30	4.20	0.89	90.57	28.19	1.26	1.12	1.23
3800	3.24	4.38	1.14	90.84	25.95	1.28	1.19	1.26
3900	3.17	4.59	1.42	91.24	24.52	1.31	1.26	1.28
4000	3.08	4.82	1.74	91.75	23.40	1.32	1.32	1.30
4250	2.88	5.50	2.61	93.46	21.64	1.36	1.44	1.38
4500	2.64	6.31	3.67	95.14	20.66	1.33	1.42	1.50
4750	2.33	7.34	5.01	97.07	20.33	1.21	1.28	1.61
5000	1.99	8.79	6.80	99.65	20.79	1.02	1.19	1.60

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

