

# 8 Way-0° Power Splitter/Combiner

# ZC8PD-K0644+

## Typical Performance Data

Data tested at 25DegC

FREQ. (MHz)	TOTAL LOSS <sup>1</sup> (dB)						AMP. UNBAL. (dB)	ISOLATION (dB)				PHASE UNBAL. (deg.)	FREQ. (MHz)	VSWR (:1)		
	S-1	S-2	S-3	S-4	S-6	S-8		1-2	2-4	5-7	7-8			S	1	8
500	9.25	9.31	9.29	9.27	9.27	9.28	0.09	3.04	11.95	11.86	3.07	0.57	500	1.25	1.55	1.51
1000	9.52	9.55	9.52	9.50	9.56	9.48	0.08	5.36	14.85	14.60	5.63	0.41	1000	1.59	1.35	1.25
2000	9.79	9.83	9.76	9.71	9.75	9.68	0.15	11.45	17.38	19.14	10.25	0.64	2000	1.66	1.20	1.08
3000	10.04	10.07	10.02	9.99	10.07	10.03	0.08	11.85	21.30	22.79	10.70	1.01	3000	2.03	1.12	1.11
4000	9.69	9.73	9.69	9.67	9.81	9.71	0.14	16.96	20.89	21.65	16.66	0.97	4000	1.44	1.39	1.48
5000	9.67	9.69	9.65	9.63	9.74	9.62	0.12	17.30	21.38	21.49	16.77	0.96	5000	1.09	1.33	1.33
6000	9.74	9.77	9.74	9.73	9.81	9.71	0.10	18.78	29.67	30.29	18.75	1.43	6000	1.03	1.12	1.17
7000	9.87	9.88	9.85	9.82	9.93	9.85	0.10	29.80	47.52	38.65	30.25	1.44	7000	1.15	1.25	1.32
8000	9.92	9.93	9.89	9.87	10.00	9.91	0.13	21.62	28.51	28.92	19.79	1.78	8000	1.15	1.02	1.06
9000	10.00	10.01	9.98	9.93	10.06	9.96	0.13	28.05	27.85	26.01	28.30	1.59	9000	1.12	1.16	1.18
10000	10.06	10.07	10.05	10.06	10.13	10.04	0.09	20.51	44.77	37.38	19.78	1.89	10000	1.15	1.09	1.08
11000	10.31	10.32	10.27	10.25	10.34	10.29	0.09	32.55	33.79	32.20	37.64	1.88	11000	1.40	1.36	1.40
12000	10.21	10.22	10.15	10.17	10.24	10.20	0.08	26.94	29.53	28.37	24.12	2.11	12000	1.08	1.19	1.24
13000	10.32	10.33	10.27	10.24	10.33	10.32	0.09	26.54	32.20	31.95	25.51	2.29	13000	1.22	1.16	1.18
14000	10.55	10.55	10.55	10.52	10.51	10.53	0.08	21.39	32.35	31.53	20.97	2.51	14000	1.53	1.22	1.21
15000	10.43	10.43	10.42	10.36	10.38	10.40	0.09	28.82	28.47	27.31	28.37	2.88	15000	1.10	1.11	1.07
16000	10.50	10.50	10.43	10.43	10.47	10.48	0.08	25.91	34.60	33.75	26.62	3.12	16000	1.13	1.15	1.15
17000	10.61	10.61	10.53	10.53	10.56	10.58	0.08	24.41	40.78	38.34	23.49	3.30	17000	1.20	1.13	1.14
18000	10.71	10.71	10.67	10.67	10.68	10.71	0.06	29.46	31.47	31.33	28.60	3.64	18000	1.34	1.23	1.23
19000	10.71	10.72	10.68	10.64	10.66	10.68	0.07	25.11	31.89	32.28	24.51	3.81	19000	1.07	1.12	1.12
20000	10.84	10.84	10.80	10.76	10.80	10.85	0.09	27.96	32.95	33.15	27.23	4.10	20000	1.25	1.08	1.06
21000	10.88	10.88	10.85	10.83	10.82	10.89	0.07	28.13	37.80	37.31	25.70	4.33	21000	1.25	1.08	1.08
22000	10.93	10.92	10.89	10.86	10.87	10.92	0.08	30.03	33.66	32.19	31.01	4.58	22000	1.04	1.16	1.19
23000	11.07	11.05	10.99	11.01	10.98	11.03	0.11	34.22	29.85	30.08	32.68	4.85	23000	1.26	1.21	1.21
24000	11.12	11.10	11.03	11.01	11.04	11.12	0.11	25.41	33.26	32.48	25.67	5.40	24000	1.20	1.12	1.13
25000	11.11	11.10	11.06	11.04	11.04	11.16	0.12	36.60	35.12	34.79	40.37	5.44	25000	1.08	1.13	1.17
26000	11.22	11.21	11.19	11.12	11.13	11.25	0.13	29.07	33.02	32.32	28.35	5.66	26000	1.17	1.04	1.06
27000	11.28	11.27	11.25	11.21	11.26	11.34	0.13	33.92	34.52	33.79	32.40	5.98	27000	1.23	1.07	1.07
28000	11.36	11.35	11.32	11.28	11.30	11.40	0.15	25.51	46.33	54.03	23.73	6.36	28000	1.18	1.05	1.02
29000	11.45	11.43	11.39	11.37	11.40	11.51	0.15	32.19	38.45	35.71	33.97	6.35	29000	1.21	1.27	1.25
30000	11.53	11.52	11.45	11.42	11.42	11.57	0.17	34.30	34.02	34.61	31.00	6.62	30000	1.22	1.24	1.24
31000	11.56	11.55	11.49	11.44	11.49	11.62	0.18	24.54	43.20	55.89	25.02	7.19	31000	1.18	1.11	1.10
32000	11.65	11.63	11.64	11.57	11.60	11.73	0.17	25.61	35.92	35.68	27.09	7.38	32000	1.24	1.17	1.19
33000	11.70	11.68	11.66	11.58	11.62	11.73	0.15	27.37	34.03	34.41	26.77	7.53	33000	1.12	1.01	1.07
35000	11.86	11.84	11.81	11.79	11.82	11.90	0.12	23.91	41.98	37.65	24.12	8.28	35000	1.31	1.09	1.12
37000	11.97	11.92	11.88	11.85	11.93	11.98	0.14	24.75	31.45	31.41	26.20	8.66	37000	1.13	1.17	1.20
40000	12.15	12.13	12.11	12.07	12.21	12.17	0.14	33.60	31.34	32.22	33.74	9.77	40000	1.15	1.06	1.03
43500	12.36	12.31	12.29	12.25	12.40	12.36	0.15	27.29	44.30	41.42	26.85	10.18	43500	1.06	1.11	1.07

<sup>1</sup>Total Loss = Insertion Loss + 9dB Splitter Loss



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# 8 Way-0° Power Splitter/Combiner

# ZC8PD-K0644+

## Typical Performance Data

Data tested at -55DegC

FREQ. (MHz)	TOTAL LOSS <sup>1</sup> (dB)						AMP. UNBAL. (dB)	ISOLATION (dB)				PHASE UNBAL. (deg.)	FREQ. (MHz)	VSWR (:1)		
	S-1	S-2	S-3	S-4	S-6	S-8		1-2	2-4	5-7	7-8			S	1	8
500	9.26	9.29	9.24	9.27	9.27	9.26	0.05	3.04	11.92	11.83	3.10	0.39	500	1.24	1.55	1.51
1000	9.56	9.57	9.58	9.53	9.52	9.55	0.06	5.36	14.84	14.60	5.66	0.30	1000	1.64	1.33	1.24
2000	9.79	9.78	9.75	9.73	9.66	9.69	0.14	11.36	17.47	19.31	10.30	0.64	2000	1.67	1.18	1.07
3000	10.06	10.06	10.01	10.01	10.02	10.09	0.08	11.94	21.27	22.85	10.84	0.55	3000	2.06	1.10	1.11
4000	9.67	9.67	9.66	9.68	9.67	9.73	0.07	16.77	21.08	21.91	16.58	0.72	4000	1.42	1.38	1.45
5000	9.64	9.65	9.63	9.65	9.61	9.67	0.06	17.23	21.41	21.58	16.80	1.15	5000	1.10	1.34	1.34
6000	9.74	9.73	9.71	9.70	9.68	9.74	0.06	18.82	29.46	30.12	18.83	1.38	6000	1.02	1.13	1.16
7000	9.83	9.85	9.84	9.82	9.79	9.86	0.07	30.44	44.16	37.39	32.36	1.66	7000	1.18	1.26	1.32
8000	9.89	9.89	9.87	9.86	9.85	9.92	0.07	21.22	29.15	29.79	19.39	2.16	8000	1.17	1.01	1.04
9000	9.95	9.97	9.94	9.90	9.92	9.95	0.07	27.79	27.87	26.07	27.98	2.01	9000	1.11	1.14	1.16
10000	10.01	10.00	10.00	10.01	9.98	10.03	0.05	20.70	42.09	36.20	20.01	2.33	10000	1.15	1.09	1.10
11000	10.28	10.28	10.23	10.22	10.21	10.29	0.08	33.02	34.55	33.27	33.17	2.37	11000	1.43	1.36	1.40
12000	10.18	10.16	10.11	10.12	10.10	10.18	0.09	26.41	30.07	28.86	23.80	2.95	12000	1.09	1.19	1.24
13000	10.26	10.22	10.19	10.16	10.17	10.27	0.10	26.07	32.12	31.83	24.80	3.04	13000	1.17	1.16	1.16
14000	10.56	10.50	10.50	10.48	10.41	10.52	0.16	22.18	33.79	33.01	21.71	3.32	14000	1.57	1.24	1.23
15000	10.41	10.33	10.33	10.29	10.25	10.37	0.16	26.80	28.83	27.71	26.65	3.58	15000	1.10	1.09	1.06
16000	10.50	10.40	10.37	10.33	10.35	10.43	0.17	26.51	34.85	33.97	27.45	3.83	16000	1.11	1.15	1.14
17000	10.62	10.49	10.44	10.42	10.44	10.52	0.20	24.20	42.10	40.68	23.20	3.81	17000	1.15	1.12	1.13
18000	10.77	10.62	10.60	10.59	10.59	10.67	0.20	32.48	32.73	32.66	31.63	4.11	18000	1.34	1.21	1.21
19000	10.75	10.61	10.58	10.55	10.54	10.62	0.22	24.78	32.68	32.82	24.49	4.41	19000	1.10	1.10	1.10
20000	10.82	10.74	10.68	10.62	10.65	10.76	0.20	28.29	33.09	33.28	27.03	4.54	20000	1.16	1.06	1.06
21000	10.87	10.79	10.80	10.72	10.71	10.83	0.17	29.11	38.84	38.58	26.61	4.61	21000	1.29	1.05	1.05
22000	10.87	10.81	10.80	10.75	10.73	10.86	0.16	29.58	34.72	33.15	30.38	4.81	22000	1.06	1.15	1.19
23000	10.99	10.90	10.86	10.86	10.82	10.95	0.18	32.02	29.89	30.11	31.22	5.35	23000	1.16	1.17	1.20
24000	11.06	10.99	10.94	10.90	10.93	11.06	0.16	26.46	32.30	31.41	26.87	5.28	24000	1.25	1.10	1.14
25000	11.02	10.99	10.96	10.92	10.91	11.07	0.17	34.98	34.88	34.54	37.70	5.71	25000	1.13	1.11	1.15
26000	11.06	11.03	11.05	10.98	10.95	11.12	0.17	29.01	32.70	32.07	28.65	5.94	26000	1.07	1.02	1.05
27000	11.14	11.10	11.10	11.07	11.08	11.23	0.17	31.52	32.77	32.11	29.91	6.09	27000	1.23	1.06	1.05
28000	11.22	11.16	11.13	11.14	11.14	11.31	0.20	26.45	42.10	42.58	24.51	6.32	28000	1.20	1.12	1.08
29000	11.29	11.22	11.19	11.21	11.20	11.40	0.22	29.45	40.96	37.76	30.70	6.42	29000	1.13	1.23	1.23
30000	11.35	11.29	11.24	11.26	11.23	11.45	0.22	36.72	33.40	33.58	34.14	7.05	30000	1.19	1.20	1.23
31000	11.38	11.33	11.29	11.28	11.30	11.49	0.20	24.08	37.10	41.08	24.15	7.12	31000	1.14	1.07	1.08
32000	11.46	11.43	11.44	11.40	11.40	11.59	0.20	28.36	40.36	39.63	30.31	7.27	32000	1.19	1.16	1.17
33000	11.48	11.46	11.46	11.41	11.41	11.59	0.21	26.11	34.71	34.91	26.03	7.45	33000	1.17	1.01	1.06
35000	11.64	11.61	11.59	11.58	11.61	11.76	0.19	23.90	51.42	45.66	24.05	7.84	35000	1.25	1.06	1.06
37000	11.72	11.70	11.69	11.65	11.68	11.81	0.16	24.49	32.04	32.03	26.04	8.29	37000	1.14	1.18	1.20
40000	11.88	11.88	11.88	11.86	11.91	12.03	0.18	29.60	32.59	33.79	28.86	8.81	40000	1.17	1.03	1.05
43500	12.08	12.04	12.02	12.02	12.10	12.21	0.18	26.90	38.94	36.67	26.68	9.65	43500	1.11	1.10	1.09

<sup>1</sup>Total Loss = Insertion Loss + 9dB Splitter Loss



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# 8 Way-0° Power Splitter/Combiner

# ZC8PD-K0644+

## Typical Performance Data

Data tested at 100DegC

FREQ. (MHz)	TOTAL LOSS <sup>1</sup> (dB)						AMP. UNBAL. (dB)	ISOLATION (dB)				PHASE UNBAL. (deg.)	FREQ. (MHz)	VSWR (:1)		
	S-1	S-2	S-3	S-4	S-6	S-8		1-2	2-4	5-7	7-8			S	1	8
500	9.27	9.26	9.33	9.25	9.25	9.25	0.08	2.95	11.89	11.86	3.02	0.52	500	1.25	1.57	1.53
1000	9.54	9.55	9.49	9.51	9.52	9.52	0.05	5.18	14.74	14.64	5.48	0.79	1000	1.57	1.39	1.28
2000	9.85	9.90	9.79	9.73	9.71	9.72	0.19	11.65	18.06	19.03	10.73	1.19	2000	1.66	1.24	1.10
3000	10.09	10.09	10.04	9.97	10.00	10.05	0.12	12.50	21.87	22.89	11.18	0.40	3000	2.01	1.12	1.10
4000	9.79	9.70	9.74	9.70	9.72	9.74	0.09	17.40	21.02	21.63	16.78	1.57	4000	1.45	1.37	1.44
5000	9.75	9.74	9.71	9.65	9.66	9.68	0.10	17.22	21.39	21.67	16.77	1.79	5000	1.08	1.32	1.31
6000	9.83	9.82	9.81	9.75	9.74	9.76	0.09	19.37	31.19	31.46	19.55	1.86	6000	1.03	1.12	1.15
7000	9.96	9.92	9.91	9.85	9.86	9.90	0.11	29.51	46.92	40.01	30.98	2.46	7000	1.14	1.19	1.28
8000	10.01	9.98	9.95	9.92	9.93	9.95	0.10	21.87	29.17	29.27	20.17	2.70	8000	1.13	1.02	1.06
9000	10.11	10.04	10.06	9.98	10.00	10.01	0.13	28.18	28.20	26.51	29.07	3.16	9000	1.12	1.17	1.18
10000	10.17	10.16	10.13	10.09	10.09	10.11	0.08	20.33	50.14	39.42	19.82	3.42	10000	1.15	1.09	1.07
11000	10.41	10.37	10.33	10.28	10.31	10.34	0.13	32.27	34.39	32.82	36.46	3.91	11000	1.36	1.32	1.37
12000	10.33	10.30	10.24	10.23	10.24	10.28	0.09	28.14	30.48	29.05	24.89	4.29	12000	1.08	1.16	1.23
13000	10.46	10.40	10.38	10.32	10.34	10.39	0.13	26.36	32.72	32.51	25.59	4.58	13000	1.24	1.17	1.18
14000	10.65	10.70	10.61	10.56	10.52	10.59	0.18	21.54	32.71	31.80	21.14	4.72	14000	1.49	1.21	1.20
15000	10.57	10.55	10.51	10.44	10.43	10.48	0.14	29.60	28.86	27.46	28.88	5.16	15000	1.10	1.11	1.07
16000	10.64	10.60	10.55	10.51	10.53	10.57	0.13	26.20	35.12	33.77	27.43	5.45	16000	1.13	1.14	1.15
17000	10.76	10.72	10.65	10.60	10.64	10.68	0.16	25.29	39.93	37.02	23.97	5.82	17000	1.21	1.13	1.14
18000	10.84	10.87	10.76	10.74	10.74	10.79	0.14	28.77	30.92	30.47	27.90	6.09	18000	1.31	1.23	1.22
19000	10.85	10.88	10.80	10.75	10.75	10.78	0.13	25.46	31.86	32.04	24.75	6.47	19000	1.04	1.12	1.12
20000	11.00	11.00	10.94	10.88	10.90	10.95	0.12	28.60	33.77	33.57	27.54	6.63	20000	1.29	1.08	1.06
21000	11.07	11.06	10.95	10.90	10.93	10.99	0.17	28.57	38.71	37.52	25.71	6.83	21000	1.20	1.10	1.09
22000	11.13	11.09	11.00	10.96	10.97	11.03	0.16	31.01	34.75	32.79	31.23	7.19	22000	1.08	1.15	1.17
23000	11.24	11.24	11.14	11.13	11.10	11.16	0.14	36.09	30.85	31.08	33.35	7.55	23000	1.29	1.21	1.21
24000	11.26	11.24	11.17	11.11	11.14	11.22	0.15	25.25	34.03	33.41	25.41	7.74	24000	1.18	1.12	1.13
25000	11.29	11.28	11.20	11.16	11.17	11.28	0.13	38.08	35.83	35.72	42.36	8.12	25000	1.09	1.13	1.16
26000	11.42	11.38	11.33	11.27	11.28	11.38	0.15	29.17	33.46	32.89	28.06	8.32	26000	1.20	1.05	1.06
27000	11.47	11.43	11.40	11.34	11.38	11.47	0.13	33.74	34.07	33.58	32.58	8.54	27000	1.22	1.08	1.07
28000	11.54	11.51	11.47	11.38	11.43	11.54	0.16	25.93	45.49	48.37	23.90	8.91	28000	1.17	1.05	1.02
29000	11.66	11.60	11.56	11.50	11.54	11.64	0.15	34.01	38.10	35.46	35.92	9.37	29000	1.25	1.28	1.25
30000	11.72	11.67	11.61	11.58	11.58	11.71	0.14	35.76	32.73	33.45	31.48	9.73	30000	1.21	1.23	1.23
31000	11.77	11.68	11.68	11.62	11.63	11.76	0.15	25.71	43.28	48.70	26.15	10.04	31000	1.20	1.11	1.11
32000	11.85	11.80	11.79	11.69	11.73	11.86	0.18	25.30	33.61	33.43	27.06	10.22	32000	1.24	1.15	1.18
33000	11.92	11.82	11.84	11.74	11.76	11.87	0.19	28.98	32.49	32.81	27.97	10.66	33000	1.11	1.01	1.06
35000	12.07	11.99	12.01	11.94	11.97	12.06	0.13	24.28	37.39	34.26	24.78	11.28	35000	1.29	1.11	1.13
37000	12.19	12.04	12.08	12.05	12.09	12.17	0.16	24.34	32.17	32.33	25.84	12.04	37000	1.16	1.17	1.18
40000	12.41	12.26	12.34	12.24	12.31	12.35	0.17	32.91	32.46	33.75	33.75	13.08	40000	1.16	1.07	1.03
43500	12.62	12.46	12.52	12.43	12.52	12.57	0.19	28.28	43.55	42.67	27.86	14.04	43500	1.09	1.12	1.08

<sup>1</sup>Total Loss = Insertion Loss + 9dB Splitter Loss



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