

8 Way-0° Power Splitter/Combiner

ZC8PD-K5R44W+

Typical Performance Data

Data tested at 25DegC

FREQ. (MHz)	TOTAL LOSS ¹ (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
100	9.41	9.42	9.48	9.39	9.43	9.40	0.08	2.80	11.85	11.84	2.74	1.18	100	1.46	1.55	1.56
500	9.59	9.58	9.55	9.56	9.54	9.57	0.06	18.19	22.75	22.29	16.62	0.75	500	1.22	1.15	1.15
1000	9.90	9.89	9.86	9.86	9.85	9.89	0.06	23.93	28.56	28.71	23.48	1.02	1000	1.36	1.10	1.11
2000	10.20	10.18	10.17	10.16	10.17	10.20	0.07	31.71	32.69	32.88	38.90	0.95	2000	1.20	1.29	1.34
3000	10.55	10.53	10.53	10.53	10.52	10.56	0.09	33.86	37.57	37.11	33.01	1.03	3000	1.32	1.24	1.25
4000	10.75	10.74	10.73	10.75	10.72	10.77	0.11	26.39	37.54	36.71	23.79	1.11	4000	1.09	1.07	1.10
5000	11.09	11.10	11.08	11.09	11.07	11.13	0.11	28.08	46.17	45.23	26.71	1.33	5000	1.27	1.15	1.12
6000	11.28	11.30	11.27	11.31	11.26	11.33	0.12	30.27	36.45	36.88	29.48	1.43	6000	1.08	1.11	1.10
7000	11.55	11.58	11.55	11.58	11.54	11.61	0.14	32.63	42.27	42.77	30.57	1.60	7000	1.16	1.09	1.08
8000	11.79	11.84	11.80	11.83	11.79	11.87	0.15	27.71	49.99	55.41	27.65	1.74	8000	1.18	1.09	1.12
9000	12.00	12.04	12.00	12.05	11.98	12.07	0.16	33.22	44.87	56.66	32.79	1.96	9000	1.02	1.07	1.06
10000	12.26	12.33	12.29	12.33	12.27	12.36	0.18	29.13	42.55	41.70	28.37	2.04	10000	1.22	1.05	1.07
11000	12.49	12.56	12.49	12.55	12.48	12.59	0.18	27.98	51.03	52.50	28.43	2.36	11000	1.15	1.09	1.08
12000	12.68	12.75	12.71	12.76	12.68	12.81	0.22	37.61	39.13	40.84	51.73	2.38	12000	1.05	1.13	1.08
13000	12.94	13.01	12.97	13.01	12.94	13.07	0.22	30.86	42.30	42.81	32.70	2.61	13000	1.14	1.13	1.09
14000	13.21	13.29	13.25	13.27	13.20	13.37	0.26	31.32	38.21	37.36	36.86	2.70	14000	1.19	1.23	1.16
15000	13.35	13.42	13.37	13.42	13.36	13.57	0.29	39.05	41.89	39.22	33.65	2.74	15000	1.05	1.13	1.08
16000	13.63	13.71	13.66	13.72	13.64	13.87	0.32	34.67	36.22	37.40	34.27	2.86	16000	1.20	1.18	1.12
17000	13.80	13.87	13.83	13.88	13.82	14.04	0.32	38.08	42.69	40.94	38.35	2.96	17000	1.06	1.10	1.03
18000	14.03	14.11	14.06	14.12	14.03	14.25	0.32	44.95	38.04	38.74	48.93	3.20	18000	1.17	1.09	1.02
19000	14.23	14.31	14.25	14.32	14.25	14.45	0.30	29.98	40.65	40.25	30.76	3.22	19000	1.07	1.07	1.07
20000	14.46	14.56	14.52	14.60	14.48	14.64	0.26	44.90	37.37	39.01	40.17	3.70	20000	1.19	1.06	1.10
21000	14.72	14.81	14.75	14.82	14.74	14.87	0.24	30.72	40.00	41.07	33.26	3.46	21000	1.19	1.13	1.18
22000	14.91	15.00	14.97	15.01	14.95	15.06	0.24	39.28	43.98	47.98	37.88	3.39	22000	1.05	1.22	1.24
23000	15.16	15.23	15.24	15.29	15.24	15.29	0.18	34.26	40.77	44.07	32.43	3.77	23000	1.21	1.18	1.17
24000	15.40	15.48	15.53	15.54	15.50	15.59	0.22	31.00	59.91	54.66	27.92	3.85	24000	1.06	1.29	1.32
25000	15.64	15.69	15.69	15.75	15.63	15.71	0.24	38.45	45.56	45.74	49.78	4.43	25000	1.18	1.21	1.21
26000	15.80	15.86	15.89	15.94	15.88	15.92	0.20	32.21	50.54	54.67	31.66	4.75	26000	1.01	1.23	1.19
27000	16.06	16.11	16.12	16.18	16.09	16.14	0.21	30.10	54.31	50.94	34.70	5.03	27000	1.23	1.23	1.16
28000	16.23	16.27	16.27	16.34	16.27	16.35	0.22	30.80	47.37	45.74	34.95	5.43	28000	1.18	1.17	1.14
29000	16.46	16.50	16.52	16.57	16.51	16.52	0.22	34.43	51.70	46.43	49.39	5.61	29000	1.22	1.18	1.14
30000	16.65	16.71	16.74	16.83	16.75	16.74	0.23	33.37	41.14	42.89	33.04	5.78	30000	1.29	1.08	1.05
31000	16.82	16.86	16.88	16.96	16.91	16.89	0.21	34.32	51.02	45.28	44.75	5.92	31000	1.11	1.12	1.09
32000	17.11	17.14	17.14	17.24	17.14	17.13	0.26	31.75	51.25	59.32	31.97	6.35	32000	1.19	1.09	1.06
33000	17.30	17.33	17.35	17.43	17.41	17.37	0.20	39.38	45.69	46.97	47.45	6.16	33000	1.15	1.23	1.19
35000	17.82	17.83	17.95	18.00	17.89	17.89	0.29	31.36	52.00	62.44	32.24	6.43	35000	1.30	1.27	1.22
37000	18.41	18.40	18.44	18.51	18.47	18.47	0.26	30.61	42.83	41.46	28.84	6.77	37000	1.37	1.31	1.22
40000	18.95	18.87	18.98	19.03	18.96	18.94	0.25	34.14	51.01	49.99	38.91	7.60	40000	1.17	1.19	1.12
43500	19.87	19.73	19.91	19.90	19.71	19.76	0.40	31.60	63.78	58.15	33.75	8.55	43500	1.16	1.31	1.21

¹Total Loss = Insertion Loss + 9dB Splitter Loss



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8 Way-0° Power Splitter/Combiner

ZC8PD-K5R44W+

Typical Performance Data

Data tested at -55DegC

FREQ. (MHz)	TOTAL LOSS ¹ (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
100	9.46	9.44	9.47	9.46	9.44	9.41	0.08	2.77	11.87	11.86	2.75	0.84	100	1.48	1.55	1.57
500	9.61	9.59	9.57	9.56	9.55	9.58	0.08	18.32	22.85	22.38	16.71	0.38	500	1.24	1.16	1.16
1000	9.93	9.91	9.90	9.88	9.87	9.90	0.07	23.92	28.71	28.88	23.52	0.52	1000	1.38	1.12	1.12
2000	10.22	10.18	10.19	10.18	10.20	10.23	0.07	31.49	32.65	32.83	37.98	0.70	2000	1.22	1.29	1.34
3000	10.60	10.56	10.58	10.57	10.56	10.61	0.10	32.74	37.59	37.31	32.08	0.89	3000	1.34	1.25	1.25
4000	10.82	10.80	10.80	10.80	10.77	10.82	0.10	26.01	37.49	36.56	23.58	0.92	4000	1.14	1.06	1.09
5000	11.16	11.14	11.14	11.16	11.14	11.19	0.12	27.74	49.00	46.05	26.40	0.97	5000	1.25	1.15	1.12
6000	11.36	11.37	11.36	11.38	11.34	11.39	0.13	30.54	36.13	36.58	29.63	1.14	6000	1.11	1.11	1.10
7000	11.63	11.65	11.64	11.66	11.61	11.67	0.14	33.07	41.87	42.51	30.77	1.26	7000	1.15	1.09	1.08
8000	11.90	11.93	11.92	11.94	11.88	11.95	0.15	27.62	49.38	51.50	27.63	1.42	8000	1.21	1.10	1.12
9000	12.11	12.14	12.11	12.15	12.08	12.15	0.16	33.38	44.57	54.72	33.09	1.60	9000	1.05	1.07	1.05
10000	12.40	12.45	12.41	12.45	12.38	12.45	0.17	28.90	42.09	41.77	28.32	1.77	10000	1.22	1.06	1.07
11000	12.62	12.68	12.62	12.67	12.59	12.67	0.18	27.86	49.54	49.63	28.15	1.86	11000	1.15	1.08	1.08
12000	12.82	12.88	12.85	12.88	12.81	12.89	0.19	37.00	39.01	40.58	51.47	2.15	12000	1.05	1.13	1.10
13000	13.09	13.15	13.12	13.15	13.07	13.14	0.19	31.17	41.84	42.56	33.14	2.31	13000	1.14	1.11	1.09
14000	13.35	13.41	13.39	13.40	13.32	13.41	0.20	31.67	38.59	37.51	37.90	2.45	14000	1.14	1.21	1.18
15000	13.52	13.58	13.55	13.59	13.51	13.60	0.19	40.78	42.68	39.45	34.75	2.66	15000	1.02	1.13	1.11
16000	13.79	13.86	13.83	13.86	13.79	13.86	0.18	35.22	35.41	36.44	34.73	2.78	16000	1.16	1.17	1.15
17000	14.00	14.06	14.01	14.08	13.98	14.05	0.21	36.08	43.94	41.94	36.24	2.89	17000	1.03	1.09	1.05
18000	14.23	14.30	14.28	14.30	14.21	14.28	0.21	42.36	39.52	39.95	47.13	3.30	18000	1.15	1.10	1.05
19000	14.47	14.54	14.45	14.54	14.45	14.51	0.21	29.43	40.40	39.89	30.03	3.32	19000	1.11	1.08	1.08
20000	14.65	14.74	14.73	14.76	14.66	14.72	0.21	47.53	38.01	39.62	42.03	3.40	20000	1.11	1.05	1.09
21000	14.97	15.05	15.02	15.05	14.95	14.99	0.23	30.53	40.05	41.27	32.76	3.57	21000	1.24	1.12	1.16
22000	15.17	15.25	15.23	15.24	15.18	15.22	0.21	38.95	44.03	47.00	36.94	3.79	22000	1.11	1.22	1.22
23000	15.43	15.49	15.51	15.53	15.46	15.44	0.21	34.46	40.51	43.27	32.52	3.76	23000	1.23	1.16	1.13
24000	15.68	15.75	15.76	15.80	15.72	15.76	0.22	30.41	57.86	49.42	27.72	4.19	24000	1.13	1.27	1.28
25000	15.88	15.92	15.96	15.98	15.86	15.88	0.26	39.36	46.21	44.81	46.63	4.08	25000	1.09	1.21	1.18
26000	16.08	16.13	16.18	16.18	16.12	16.12	0.21	33.22	53.39	57.26	33.14	4.38	26000	1.12	1.21	1.16
27000	16.34	16.37	16.37	16.42	16.32	16.32	0.24	31.47	55.47	48.68	36.83	4.54	27000	1.14	1.22	1.14
28000	16.56	16.58	16.60	16.63	16.55	16.58	0.23	31.76	48.44	48.39	35.45	4.63	28000	1.17	1.18	1.14
29000	16.78	16.80	16.83	16.86	16.78	16.75	0.24	38.79	48.95	45.79	44.11	4.76	29000	1.20	1.15	1.12
30000	16.97	17.01	17.08	17.14	17.05	16.99	0.27	35.09	42.59	44.66	33.70	4.63	30000	1.26	1.09	1.06
31000	17.18	17.20	17.26	17.29	17.21	17.15	0.25	33.55	52.68	45.39	42.97	4.72	31000	1.12	1.13	1.09
32000	17.49	17.50	17.44	17.56	17.45	17.43	0.28	30.74	55.25	55.12	31.46	5.07	32000	1.17	1.06	1.04
33000	17.67	17.69	17.71	17.76	17.70	17.64	0.25	37.46	44.43	45.39	43.17	5.20	33000	1.11	1.23	1.17
35000	18.17	18.16	18.34	18.31	18.20	18.15	0.33	30.96	58.72	60.27	32.07	4.61	35000	1.25	1.24	1.18
37000	18.79	18.76	18.76	18.84	18.76	18.76	0.27	29.81	41.87	40.88	28.82	5.01	37000	1.29	1.27	1.19
40000	19.50	19.40	19.46	19.51	19.41	19.36	0.29	33.05	52.20	49.55	36.48	5.68	40000	1.26	1.22	1.14
43500	20.38	20.18	20.19	20.31	20.12	20.16	0.50	31.77	59.65	56.72	33.13	5.55	43500	1.13	1.33	1.21

¹Total Loss = Insertion Loss + 9dB Splitter Loss



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8 Way-0° Power Splitter/Combiner

ZC8PD-K5R44W+

Typical Performance Data

Data tested at 100DegC

FREQ. (MHz)	TOTAL LOSS ¹ (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
100	9.37	9.45	9.46	9.42	9.45	9.40	0.10	2.86	11.85	11.84	2.81	0.86	100	1.45	1.57	1.56
500	9.53	9.55	9.60	9.58	9.56	9.55	0.07	18.12	22.79	22.35	16.60	0.31	500	1.25	1.15	1.15
1000	9.80	9.86	9.89	9.86	9.86	9.86	0.09	24.16	28.64	28.79	23.50	0.42	1000	1.38	1.09	1.10
2000	10.04	10.11	10.14	10.12	10.14	10.16	0.11	33.55	31.92	32.18	48.85	0.49	2000	1.20	1.26	1.32
3000	10.39	10.45	10.50	10.49	10.47	10.50	0.11	37.32	38.33	37.65	36.39	1.10	3000	1.32	1.23	1.24
4000	10.58	10.64	10.68	10.68	10.64	10.69	0.11	28.03	35.42	35.25	24.97	1.43	4000	1.04	1.07	1.12
5000	10.90	10.97	11.00	11.01	10.97	11.04	0.14	28.39	43.94	43.21	27.13	1.97	5000	1.25	1.14	1.13
6000	11.09	11.17	11.19	11.22	11.17	11.24	0.15	30.48	36.61	36.70	29.63	2.29	6000	1.05	1.13	1.12
7000	11.35	11.45	11.45	11.49	11.43	11.51	0.15	31.93	40.64	40.54	30.48	2.47	7000	1.19	1.09	1.09
8000	11.57	11.67	11.66	11.70	11.64	11.73	0.16	28.54	62.95	59.64	28.31	2.69	8000	1.14	1.11	1.13
9000	11.77	11.87	11.87	11.92	11.84	11.94	0.16	32.98	42.81	49.77	31.83	2.97	9000	1.07	1.09	1.08
10000	12.01	12.13	12.12	12.17	12.08	12.19	0.19	31.92	46.16	43.82	30.53	3.04	10000	1.18	1.06	1.07
11000	12.21	12.33	12.29	12.36	12.29	12.40	0.20	28.71	50.15	54.19	29.59	3.21	11000	1.07	1.04	1.05
12000	12.40	12.53	12.50	12.58	12.48	12.61	0.21	40.14	39.04	40.31	47.08	3.41	12000	1.08	1.08	1.05
13000	12.63	12.75	12.73	12.80	12.74	12.85	0.22	30.92	46.51	45.89	32.07	3.41	13000	1.08	1.09	1.09
14000	12.93	13.06	13.04	13.12	13.02	13.15	0.22	32.70	37.36	37.36	35.77	3.51	14000	1.27	1.22	1.16
15000	13.04	13.16	13.14	13.22	13.13	13.27	0.24	34.61	38.76	37.37	30.38	3.42	15000	1.08	1.10	1.08
16000	13.31	13.44	13.42	13.51	13.41	13.56	0.25	35.88	39.87	41.69	36.39	3.52	16000	1.16	1.20	1.16
17000	13.50	13.61	13.59	13.68	13.57	13.73	0.23	40.82	39.82	38.55	43.54	3.51	17000	1.17	1.13	1.07
18000	13.66	13.79	13.75	13.89	13.77	13.94	0.27	35.59	35.64	36.67	38.60	3.32	18000	1.12	1.14	1.07
19000	13.90	14.01	13.97	14.10	13.99	14.16	0.26	30.70	43.08	42.94	31.97	3.56	19000	1.14	1.16	1.12
20000	14.11	14.22	14.20	14.36	14.22	14.36	0.26	32.37	36.90	38.06	32.77	3.58	20000	1.18	1.12	1.13
21000	14.27	14.38	14.37	14.52	14.39	14.55	0.28	34.43	41.90	43.61	38.23	3.31	21000	1.05	1.13	1.19
22000	14.46	14.58	14.55	14.72	14.62	14.76	0.31	38.70	41.55	46.29	41.48	3.05	22000	1.06	1.15	1.19
23000	14.67	14.78	14.77	14.93	14.85	14.97	0.30	43.69	42.65	44.84	36.64	2.99	23000	1.03	1.07	1.14
24000	14.92	15.01	15.05	15.20	15.13	15.27	0.36	34.14	51.85	56.89	29.93	2.86	24000	1.14	1.13	1.23
25000	15.11	15.18	15.20	15.37	15.24	15.38	0.28	41.72	46.43	48.20	44.14	3.13	25000	1.06	1.08	1.11
26000	15.33	15.43	15.48	15.63	15.53	15.66	0.33	30.34	51.07	52.71	28.89	2.88	26000	1.12	1.16	1.17
27000	15.49	15.58	15.59	15.76	15.64	15.76	0.27	31.66	42.63	45.39	34.08	3.21	27000	1.05	1.14	1.09
28000	15.75	15.81	15.84	16.02	15.90	16.03	0.29	30.11	44.58	41.63	33.49	3.64	28000	1.16	1.13	1.11
29000	15.96	16.05	16.01	16.19	16.06	16.17	0.26	29.31	52.67	59.46	33.55	3.75	29000	1.03	1.22	1.14
30000	16.11	16.21	16.22	16.39	16.27	16.36	0.29	31.32	42.49	44.19	34.32	3.32	30000	1.13	1.13	1.04
31000	16.36	16.44	16.40	16.61	16.48	16.55	0.27	33.14	44.51	43.53	38.91	3.26	31000	1.03	1.15	1.07
32000	16.54	16.62	16.62	16.81	16.67	16.76	0.30	44.77	50.09	49.63	40.44	2.72	32000	1.15	1.09	1.01
33000	16.72	16.81	16.80	17.04	16.90	16.96	0.32	45.16	42.39	43.29	39.85	3.20	33000	1.10	1.12	1.10
35000	17.17	17.25	17.25	17.47	17.35	17.42	0.31	38.88	40.61	43.45	45.82	2.95	35000	1.22	1.18	1.15
37000	17.72	17.74	17.76	17.97	17.85	17.89	0.30	34.13	51.75	44.11	31.20	3.36	37000	1.29	1.30	1.17
40000	18.25	18.25	18.27	18.58	18.38	18.43	0.34	37.05	55.44	50.93	41.23	4.32	40000	1.22	1.27	1.14
43500	19.06	19.02	19.03	19.33	19.16	19.21	0.43	32.26	47.62	52.77	38.55	8.07	43500	1.32	1.25	1.14

¹Total Loss = Insertion Loss + 9dB Splitter Loss



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