

8 Way-0° Power Splitter/Combiner

ZC8PD-01263-S+

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	10.70	10.73	10.76	10.74	10.72	10.72	0.06	2.48	11.08	11.11	2.48	0.18	100	3.36	1.90	1.90
500	11.48	11.50	11.49	11.48	11.52	11.51	0.05	11.41	17.06	16.99	11.31	0.27	500	4.19	2.14	2.17
1000	9.63	9.66	9.64	9.62	9.63	9.63	0.04	22.33	25.17	25.17	21.81	0.11	1000	1.48	1.46	1.47
1500	9.59	9.60	9.60	9.58	9.60	9.60	0.04	24.49	37.43	37.09	23.16	0.17	1500	1.10	1.16	1.17
2000	9.70	9.73	9.71	9.68	9.73	9.72	0.05	39.45	45.83	55.51	32.49	0.29	2000	1.08	1.30	1.32
2500	9.84	9.86	9.85	9.83	9.86	9.85	0.05	29.58	30.85	30.63	28.46	0.30	2500	1.20	1.15	1.17
3000	9.92	9.94	9.94	9.91	9.92	9.92	0.03	35.97	29.24	28.34	32.47	0.36	3000	1.04	1.09	1.11
3500	10.03	10.03	10.03	10.00	10.02	10.03	0.04	26.50	30.89	30.41	26.23	0.41	3500	1.08	1.14	1.14
4000	10.12	10.12	10.14	10.11	10.13	10.12	0.04	24.39	31.60	31.22	22.96	0.48	4000	1.02	1.12	1.14
4500	10.23	10.24	10.24	10.21	10.21	10.21	0.04	33.85	30.79	30.62	29.36	0.51	4500	1.04	1.13	1.17
5000	10.34	10.33	10.36	10.32	10.32	10.32	0.04	29.14	28.67	28.57	27.89	0.54	5000	1.11	1.09	1.08
5500	10.41	10.43	10.45	10.41	10.41	10.41	0.04	29.19	31.76	31.05	26.76	0.60	5500	1.06	1.04	1.07
6000	10.53	10.53	10.56	10.53	10.53	10.53	0.03	35.56	37.65	36.56	33.08	0.66	6000	1.15	1.07	1.07
6500	10.61	10.62	10.64	10.60	10.60	10.61	0.04	36.75	37.19	40.28	35.48	0.64	6500	1.06	1.08	1.09
7000	10.71	10.71	10.75	10.71	10.71	10.71	0.04	32.00	35.81	36.45	36.73	0.72	7000	1.12	1.05	1.03
7500	10.79	10.80	10.83	10.79	10.77	10.78	0.06	23.50	39.09	42.46	23.40	0.66	7500	1.06	1.07	1.08
8000	10.89	10.90	10.93	10.88	10.90	10.89	0.05	23.58	39.04	40.28	22.87	0.85	8000	1.10	1.08	1.09
8500	10.97	10.96	11.00	10.97	10.95	10.96	0.06	30.31	39.46	40.49	28.42	0.90	8500	1.07	1.03	1.03
9000	11.06	11.05	11.12	11.06	11.05	11.06	0.06	37.35	38.55	38.84	35.53	0.87	9000	1.05	1.04	1.06
9500	11.15	11.14	11.20	11.14	11.13	11.15	0.07	29.62	32.86	33.70	28.77	1.05	9500	1.01	1.08	1.06
10000	11.25	11.24	11.31	11.26	11.25	11.26	0.08	28.00	36.07	38.16	26.35	0.90	10000	1.11	1.11	1.09
11000	11.41	11.40	11.48	11.43	11.40	11.42	0.08	44.89	47.65	48.85	40.06	1.02	11000	1.07	1.06	1.09
12000	11.62	11.61	11.70	11.64	11.62	11.63	0.10	34.67	36.59	36.60	33.16	1.12	12000	1.17	1.16	1.18
13000	11.88	11.87	11.98	11.92	11.86	11.90	0.12	32.06	41.57	41.13	27.95	1.19	13000	1.36	1.17	1.18
14000	12.09	12.07	12.19	12.12	12.07	12.09	0.12	27.86	35.58	34.05	29.56	1.28	14000	1.42	1.15	1.10
15000	12.16	12.17	12.27	12.19	12.16	12.19	0.11	33.75	31.56	32.33	34.77	1.35	15000	1.28	1.01	1.04
16000	12.33	12.33	12.43	12.36	12.33	12.35	0.10	32.27	38.36	39.77	34.19	1.42	16000	1.25	1.04	1.02
17000	12.49	12.49	12.60	12.51	12.49	12.52	0.11	41.40	37.09	38.20	34.24	1.44	17000	1.20	1.09	1.12
18000	12.64	12.66	12.76	12.67	12.66	12.69	0.11	28.67	52.70	45.17	28.03	1.53	18000	1.09	1.19	1.25
19000	12.84	12.86	12.97	12.89	12.85	12.89	0.13	32.42	43.16	44.43	34.92	1.51	19000	1.19	1.17	1.21
20000	13.06	13.06	13.17	13.08	13.06	13.10	0.12	32.49	47.41	44.03	31.38	1.64	20000	1.26	1.21	1.23
21000	13.24	13.24	13.37	13.28	13.22	13.27	0.15	33.26	37.23	36.27	33.27	1.62	21000	1.23	1.16	1.17
22000	13.38	13.37	13.51	13.40	13.38	13.43	0.13	36.12	47.49	50.53	37.10	1.80	22000	1.14	1.08	1.09
23000	13.56	13.58	13.72	13.62	13.54	13.60	0.18	27.57	44.18	44.40	26.99	2.12	23000	1.06	1.06	1.08
24000	13.78	13.80	13.94	13.84	13.74	13.84	0.20	31.44	44.71	45.19	31.66	2.02	24000	1.06	1.12	1.12
25000	13.91	13.93	14.06	13.97	13.90	14.01	0.16	38.62	43.76	49.18	36.46	2.29	25000	1.05	1.06	1.06
26000	14.03	14.06	14.21	14.12	14.02	14.13	0.19	35.11	45.39	43.54	32.98	2.28	26000	1.02	1.05	1.08
26500	14.13	14.14	14.33	14.26	14.17	14.24	0.19	48.86	43.28	40.84	38.84	2.03	26500	1.18	1.08	1.07
27000	14.20	14.22	14.38	14.29	14.22	14.30	0.17	34.38	40.61	39.69	38.76	2.33	27000	1.07	1.05	1.04
27500	14.32	14.33	14.48	14.39	14.31	14.38	0.17	39.87	39.13	40.03	36.95	2.27	27500	1.08	1.10	1.05
28000	14.43	14.48	14.59	14.51	14.41	14.53	0.18	54.38	51.34	50.23	36.79	2.14	28000	1.15	1.12	1.13

¹Total Loss = Insertion Loss + 9dB Splitter Loss



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6/5/2019

Page 1 of 3

8 Way-0° Power Splitter/Combiner

ZC8PD-01263-S+

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	10.75	10.73	10.77	10.72	10.73	10.77	0.05	2.52	11.00	11.05	2.50	0.21	100	3.32	1.89	1.89
500	11.51	11.51	11.51	11.50	11.53	11.54	0.04	11.34	17.02	16.95	11.20	0.13	500	4.20	2.10	2.13
1000	9.67	9.67	9.66	9.64	9.64	9.69	0.05	21.89	25.00	25.00	21.50	0.39	1000	1.49	1.43	1.46
1500	9.62	9.61	9.62	9.59	9.59	9.63	0.04	25.14	35.66	35.51	23.68	0.43	1500	1.09	1.18	1.17
2000	9.73	9.72	9.72	9.69	9.72	9.77	0.08	40.07	46.87	60.89	32.88	0.54	2000	1.09	1.28	1.30
2500	9.87	9.86	9.86	9.84	9.85	9.90	0.06	30.57	31.28	31.09	29.40	0.86	2500	1.18	1.15	1.16
3000	9.94	9.93	9.94	9.90	9.91	9.95	0.05	36.15	29.41	28.59	33.36	0.84	3000	1.05	1.09	1.10
3500	10.04	10.02	10.03	10.00	10.00	10.06	0.06	25.85	30.31	29.86	25.74	0.97	3500	1.06	1.13	1.13
4000	10.12	10.10	10.12	10.10	10.11	10.14	0.04	23.49	30.60	30.21	22.25	1.15	4000	1.06	1.11	1.12
4500	10.22	10.22	10.23	10.20	10.19	10.22	0.04	33.72	30.81	30.90	29.75	1.27	4500	1.07	1.12	1.15
5000	10.32	10.30	10.34	10.30	10.29	10.31	0.04	28.41	29.03	29.14	27.97	1.38	5000	1.12	1.10	1.09
5500	10.39	10.39	10.43	10.39	10.39	10.41	0.04	29.50	30.95	30.22	27.42	1.38	5500	1.10	1.04	1.07
6000	10.48	10.47	10.53	10.50	10.48	10.51	0.05	38.52	38.92	38.05	35.36	1.49	6000	1.14	1.08	1.07
6500	10.56	10.56	10.60	10.57	10.56	10.58	0.05	36.75	36.19	39.26	34.79	1.64	6500	1.09	1.09	1.09
7000	10.65	10.65	10.72	10.67	10.67	10.68	0.07	32.18	36.63	37.54	39.39	1.80	7000	1.12	1.06	1.04
7500	10.74	10.73	10.82	10.75	10.74	10.75	0.09	23.92	44.06	47.49	24.19	1.78	7500	1.09	1.12	1.12
8000	10.82	10.82	10.88	10.83	10.85	10.84	0.07	23.82	41.60	42.56	23.13	1.83	8000	1.10	1.11	1.11
8500	10.90	10.90	10.95	10.91	10.89	10.91	0.06	31.46	39.70	41.48	29.33	2.10	8500	1.10	1.04	1.04
9000	10.98	10.97	11.05	11.00	10.98	11.00	0.08	34.53	40.45	42.74	36.31	2.14	9000	1.07	1.06	1.08
9500	11.05	11.05	11.12	11.08	11.06	11.08	0.07	29.47	35.55	35.93	29.34	2.25	9500	1.02	1.07	1.06
10000	11.15	11.15	11.23	11.19	11.16	11.18	0.08	29.00	36.19	38.26	27.43	2.33	10000	1.09	1.13	1.11
11000	11.30	11.29	11.39	11.35	11.31	11.33	0.09	44.08	48.25	43.82	39.66	2.47	11000	1.09	1.06	1.10
12000	11.51	11.51	11.62	11.58	11.54	11.56	0.11	38.76	33.88	33.93	35.62	2.56	12000	1.24	1.16	1.19
13000	11.71	11.72	11.83	11.78	11.73	11.77	0.12	32.87	42.74	41.65	28.78	2.81	13000	1.30	1.14	1.15
14000	11.86	11.87	11.99	11.91	11.88	11.91	0.13	34.86	36.30	35.09	40.49	3.12	14000	1.26	1.10	1.06
15000	11.98	12.00	12.12	12.04	12.01	12.03	0.14	36.76	33.51	34.47	46.65	3.20	15000	1.24	1.02	1.05
16000	12.14	12.18	12.28	12.21	12.19	12.21	0.14	38.44	37.52	38.74	40.42	3.42	16000	1.23	1.04	1.04
17000	12.29	12.35	12.46	12.37	12.35	12.37	0.16	36.57	35.05	36.80	31.04	3.75	17000	1.16	1.12	1.14
18000	12.51	12.58	12.69	12.61	12.59	12.61	0.18	27.20	41.51	39.32	26.73	3.97	18000	1.28	1.21	1.26
19000	12.73	12.75	12.90	12.80	12.77	12.82	0.17	31.18	42.47	41.56	33.33	4.15	19000	1.31	1.22	1.26
20000	12.86	12.89	13.03	12.93	12.93	12.97	0.17	32.07	47.03	44.01	31.40	4.26	20000	1.18	1.21	1.22
21000	13.03	13.07	13.20	13.13	13.04	13.13	0.17	34.35	40.97	39.25	34.76	4.41	21000	1.14	1.15	1.17
22000	13.20	13.22	13.38	13.28	13.25	13.31	0.18	35.03	47.26	51.29	37.46	4.98	22000	1.10	1.10	1.09
23000	13.39	13.41	13.60	13.50	13.39	13.50	0.21	28.92	40.93	41.15	27.93	4.72	23000	1.05	1.08	1.10
24000	13.57	13.60	13.77	13.66	13.56	13.72	0.20	29.89	43.89	45.11	29.84	4.96	24000	1.09	1.10	1.11
25000	13.72	13.74	13.88	13.78	13.73	13.85	0.16	33.24	43.68	47.84	31.19	5.21	25000	1.07	1.05	1.05
26000	13.85	13.88	14.04	13.93	13.86	13.97	0.19	36.53	48.59	45.47	35.84	5.44	26000	1.07	1.09	1.10
26500	13.92	13.94	14.12	14.06	13.96	14.05	0.21	44.27	44.80	42.33	37.43	5.66	26500	1.11	1.10	1.09
27000	14.01	14.03	14.18	14.10	14.02	14.12	0.17	32.64	41.37	39.77	33.66	5.48	27000	1.08	1.08	1.03
27500	14.10	14.11	14.26	14.20	14.10	14.21	0.16	39.05	42.81	43.53	37.94	5.65	27500	1.07	1.13	1.07
28000	14.15	14.21	14.35	14.27	14.19	14.31	0.20	36.51	45.56	44.60	36.55	6.27	28000	1.08	1.08	1.09

¹Total Loss = Insertion Loss + 9dB Splitter Loss



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Page 2 of 3

8 Way-0° Power Splitter/Combiner

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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	10.70	10.71	10.79	10.75	10.72	10.71	0.09	2.46	11.09	11.14	2.47	0.14	100	3.36	1.91	1.90
500	11.49	11.51	11.49	11.49	11.52	11.51	0.05	11.59	17.20	17.08	11.41	0.27	500	4.18	2.27	2.26
1000	9.66	9.68	9.67	9.64	9.66	9.65	0.04	22.06	26.08	25.85	21.51	0.27	1000	1.48	1.41	1.44
1500	9.63	9.64	9.63	9.61	9.63	9.62	0.05	23.25	39.61	38.85	22.35	0.44	1500	1.12	1.16	1.16
2000	9.75	9.77	9.76	9.72	9.76	9.75	0.06	34.06	43.12	51.69	30.74	0.49	2000	1.07	1.32	1.34
2500	9.91	9.91	9.90	9.87	9.90	9.89	0.05	27.92	30.88	31.04	27.31	0.68	2500	1.21	1.16	1.18
3000	9.99	9.99	9.99	9.95	9.98	9.96	0.04	34.84	28.84	28.22	32.44	0.87	3000	1.04	1.11	1.12
3500	10.10	10.10	10.09	10.06	10.07	10.07	0.04	26.95	30.08	29.74	26.79	1.06	3500	1.10	1.15	1.16
4000	10.19	10.19	10.21	10.16	10.19	10.17	0.05	24.41	30.85	30.51	22.99	1.22	4000	1.02	1.14	1.15
4500	10.31	10.31	10.31	10.26	10.28	10.26	0.05	33.30	30.95	30.83	29.23	1.32	4500	1.03	1.15	1.18
5000	10.42	10.41	10.44	10.39	10.39	10.37	0.07	28.78	29.14	29.07	27.61	1.42	5000	1.11	1.09	1.08
5500	10.50	10.51	10.53	10.48	10.50	10.48	0.05	28.66	31.26	30.37	26.39	1.73	5500	1.06	1.05	1.07
6000	10.62	10.62	10.65	10.60	10.61	10.59	0.05	33.23	40.12	38.54	30.90	1.87	6000	1.14	1.06	1.06
6500	10.71	10.71	10.73	10.68	10.69	10.68	0.05	38.25	36.18	39.39	34.87	1.98	6500	1.08	1.08	1.09
7000	10.81	10.80	10.85	10.79	10.79	10.78	0.07	31.70	35.84	36.94	34.78	2.17	7000	1.12	1.04	1.04
7500	10.89	10.89	10.93	10.88	10.87	10.87	0.07	23.43	38.54	41.40	23.48	2.27	7500	1.06	1.05	1.06
8000	11.00	11.00	11.04	10.97	10.99	10.97	0.07	23.55	36.95	37.94	22.76	2.49	8000	1.09	1.06	1.08
8500	11.08	11.07	11.12	11.06	11.05	11.05	0.07	29.29	40.78	41.79	27.55	2.65	8500	1.05	1.02	1.03
9000	11.18	11.17	11.23	11.17	11.16	11.15	0.08	36.59	39.02	40.26	34.90	2.76	9000	1.04	1.03	1.05
9500	11.27	11.27	11.32	11.25	11.25	11.25	0.08	29.91	33.00	33.57	29.17	3.02	9500	1.01	1.08	1.06
10000	11.38	11.36	11.44	11.38	11.36	11.36	0.08	27.52	35.28	37.03	25.78	3.07	10000	1.10	1.10	1.08
11000	11.55	11.54	11.62	11.55	11.53	11.53	0.09	40.05	47.61	45.61	38.61	3.47	11000	1.07	1.06	1.09
12000	11.77	11.75	11.85	11.77	11.76	11.76	0.10	34.28	36.44	36.37	32.64	3.77	12000	1.13	1.15	1.17
13000	12.03	12.03	12.14	12.06	12.01	12.03	0.13	31.02	40.78	40.05	27.46	4.06	13000	1.35	1.17	1.19
14000	12.28	12.26	12.38	12.29	12.25	12.25	0.13	26.94	36.11	34.59	28.56	4.28	14000	1.44	1.15	1.11
15000	12.37	12.37	12.48	12.37	12.36	12.36	0.13	32.89	31.54	32.45	33.92	4.65	15000	1.33	1.02	1.04
16000	12.52	12.53	12.63	12.53	12.52	12.52	0.11	31.09	40.17	41.52	32.95	4.92	16000	1.25	1.03	1.01
17000	12.69	12.70	12.81	12.69	12.69	12.69	0.12	40.44	39.17	40.22	34.60	5.15	17000	1.22	1.09	1.12
18000	12.86	12.88	12.99	12.87	12.87	12.88	0.12	29.48	55.32	49.71	28.80	5.47	18000	1.14	1.21	1.26
19000	13.05	13.07	13.19	13.07	13.05	13.06	0.14	34.27	42.51	45.07	37.09	5.72	19000	1.12	1.15	1.19
20000	13.27	13.28	13.40	13.28	13.26	13.28	0.14	32.73	46.97	44.58	31.49	5.92	20000	1.19	1.20	1.22
21000	13.49	13.47	13.62	13.50	13.45	13.48	0.17	33.48	36.92	35.98	33.34	6.21	21000	1.22	1.15	1.16
22000	13.64	13.64	13.77	13.63	13.62	13.66	0.15	37.52	50.38	53.45	38.21	6.54	22000	1.16	1.07	1.08
23000	13.84	13.84	14.00	13.86	13.80	13.84	0.20	27.86	41.72	41.94	27.37	7.29	23000	1.09	1.05	1.07
24000	14.07	14.08	14.21	14.08	14.00	14.08	0.21	31.67	43.46	44.10	31.91	7.12	24000	1.04	1.10	1.10
25000	14.22	14.23	14.38	14.25	14.18	14.26	0.20	37.96	43.66	48.81	36.94	7.94	25000	1.07	1.04	1.05
26000	14.35	14.36	14.55	14.43	14.31	14.39	0.24	35.68	45.97	42.89	33.16	8.08	26000	1.07	1.02	1.08
26500	14.46	14.46	14.67	14.55	14.48	14.51	0.21	49.04	44.93	41.83	38.23	8.02	26500	1.21	1.05	1.05
27000	14.54	14.54	14.71	14.59	14.53	14.57	0.19	36.12	39.60	39.14	42.84	8.38	27000	1.03	1.03	1.05
27500	14.67	14.68	14.85	14.70	14.64	14.68	0.21	39.79	39.82	40.92	35.44	8.36	27500	1.15	1.09	1.05
28000	14.78	14.82	14.94	14.81	14.74	14.82	0.20	52.60	50.39	51.98	35.84	8.35	28000	1.18	1.14	1.16

¹Total Loss = Insertion Loss + 9dB Splitter Loss



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Page 3 of 3