

8 Way-0° Power Splitter/Combiner

ZC8PD-02263-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	11.55	11.57	11.55	11.52	11.54	11.54	0.06	2.74	10.51	10.50	2.76	0.11	100	4.52	2.23	2.21
500	10.31	10.32	10.30	10.27	10.32	10.34	0.08	7.27	14.92	14.63	7.36	0.55	500	2.60	1.82	1.77
1000	9.47	9.50	9.51	9.48	9.50	9.51	0.05	14.20	23.86	22.65	13.72	0.70	1000	1.34	1.15	1.14
1500	9.50	9.52	9.52	9.48	9.52	9.53	0.06	25.75	36.72	35.74	23.15	0.40	1500	1.09	1.13	1.17
2000	9.58	9.61	9.63	9.59	9.61	9.62	0.06	22.17	29.94	31.12	22.60	0.44	2000	1.08	1.08	1.14
2500	9.70	9.72	9.72	9.67	9.71	9.72	0.06	21.12	37.51	39.30	21.79	0.52	2500	1.15	1.24	1.20
3000	9.78	9.82	9.79	9.75	9.80	9.80	0.07	19.01	38.29	40.97	19.53	0.78	3000	1.13	1.24	1.24
3500	9.87	9.89	9.87	9.83	9.86	9.86	0.06	19.47	29.98	30.44	20.31	0.69	3500	1.14	1.06	1.05
4000	9.94	9.97	9.96	9.91	9.94	9.95	0.05	28.89	26.51	26.56	28.13	0.75	4000	1.14	1.22	1.19
4500	10.01	10.05	10.02	9.99	9.99	10.00	0.06	28.22	24.36	24.04	32.44	0.97	4500	1.06	1.19	1.23
5000	10.09	10.12	10.09	10.06	10.08	10.07	0.06	29.18	30.35	29.17	31.62	0.98	5000	1.12	1.12	1.17
5500	10.15	10.18	10.17	10.13	10.16	10.15	0.05	38.11	31.04	30.49	33.44	1.28	5500	1.10	1.11	1.13
6000	10.26	10.29	10.27	10.22	10.27	10.25	0.07	22.43	44.45	46.55	21.44	1.37	6000	1.21	1.10	1.08
6500	10.32	10.36	10.32	10.28	10.34	10.31	0.08	24.24	29.52	29.50	22.64	1.30	6500	1.20	1.09	1.09
7000	10.37	10.40	10.38	10.34	10.37	10.35	0.07	38.22	33.52	32.92	31.19	1.46	7000	1.15	1.02	1.02
7500	10.41	10.45	10.42	10.38	10.43	10.40	0.07	27.84	34.36	32.88	28.76	1.56	7500	1.07	1.05	1.03
8000	10.47	10.51	10.48	10.44	10.48	10.45	0.06	27.76	32.13	30.58	25.81	1.59	8000	1.04	1.09	1.06
8500	10.54	10.58	10.55	10.51	10.55	10.52	0.07	35.84	36.95	35.14	32.00	1.83	8500	1.05	1.07	1.08
9000	10.62	10.67	10.63	10.59	10.63	10.60	0.08	33.56	39.98	36.36	33.46	1.81	9000	1.14	1.05	1.05
9500	10.70	10.75	10.70	10.66	10.70	10.68	0.09	31.86	45.90	40.53	40.25	1.91	9500	1.19	1.10	1.13
10000	10.75	10.80	10.74	10.70	10.74	10.72	0.10	44.67	30.88	33.78	33.05	2.15	10000	1.07	1.14	1.15
11000	10.87	10.94	10.90	10.86	10.88	10.84	0.10	42.29	28.66	29.38	35.47	2.29	11000	1.17	1.11	1.16
12000	11.07	11.13	11.08	11.03	11.08	11.05	0.11	38.55	42.78	44.82	45.08	2.35	12000	1.31	1.18	1.21
13000	11.10	11.16	11.09	11.06	11.11	11.09	0.11	41.85	37.51	40.83	41.15	2.68	13000	1.06	1.18	1.20
14000	11.23	11.30	11.26	11.22	11.26	11.22	0.09	31.56	34.09	35.46	30.47	2.86	14000	1.14	1.13	1.16
15000	11.41	11.48	11.41	11.38	11.43	11.40	0.10	37.58	34.81	35.42	30.16	2.87	15000	1.23	1.34	1.34
16000	11.47	11.54	11.45	11.42	11.48	11.44	0.12	30.20	36.84	33.53	36.09	3.36	16000	1.19	1.09	1.07
17000	11.63	11.70	11.58	11.56	11.60	11.58	0.16	39.06	37.86	36.90	42.98	3.45	17000	1.22	1.08	1.03
18000	11.73	11.80	11.71	11.68	11.70	11.67	0.16	33.60	31.65	32.09	41.50	3.48	18000	1.20	1.18	1.12
19000	11.85	11.92	11.82	11.80	11.84	11.80	0.17	38.69	37.67	36.95	32.13	3.73	19000	1.12	1.21	1.16
20000	11.95	12.04	11.93	11.91	11.95	11.91	0.16	31.50	45.82	41.71	32.06	4.06	20000	1.09	1.14	1.07
21000	12.11	12.18	12.05	12.04	12.07	12.03	0.18	32.09	40.47	43.88	34.77	4.09	21000	1.11	1.22	1.16
22000	12.22	12.31	12.16	12.15	12.19	12.17	0.19	31.28	53.27	63.92	30.57	4.26	22000	1.19	1.06	1.02
23000	12.31	12.42	12.28	12.27	12.32	12.29	0.19	44.23	38.96	38.89	35.46	4.68	23000	1.11	1.06	1.12
24000	12.44	12.55	12.40	12.40	12.41	12.42	0.23	25.96	47.63	50.30	29.04	4.93	24000	1.04	1.02	1.06
25000	12.53	12.63	12.52	12.50	12.51	12.48	0.20	40.82	40.39	40.73	38.60	5.11	25000	1.03	1.10	1.12
26000	12.66	12.76	12.64	12.64	12.68	12.67	0.17	31.76	40.10	40.56	31.19	5.15	26000	1.06	1.13	1.11
26500	12.76	12.87	12.68	12.69	12.70	12.70	0.26	42.60	34.22	33.80	48.64	5.61	26500	1.02	1.12	1.15
27000	12.78	12.89	12.75	12.76	12.78	12.76	0.20	36.62	37.64	36.84	33.66	5.37	27000	1.04	1.07	1.12
27500	12.91	13.01	12.80	12.80	12.84	12.84	0.27	41.02	54.95	46.19	39.04	5.64	27500	1.08	1.06	1.06
28000	12.92	13.04	12.91	12.90	12.94	12.90	0.21	34.72	42.48	45.27	32.63	5.32	28000	1.12	1.10	1.07

¹Total Loss = Insertion Loss + 9dB Splitter Loss



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8 Way-0° Power Splitter/Combiner

ZC8PD-02263-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	11.59	11.55	11.55	11.51	11.54	11.56	0.08	2.76	10.46	10.45	2.78	5.28	100	4.52	2.20	2.21
500	10.34	10.33	10.28	10.30	10.33	10.35	0.09	7.36	14.97	14.71	7.45	1.39	500	2.64	1.85	1.80
1000	9.46	9.46	9.47	9.48	9.49	9.51	0.05	14.22	23.93	22.70	13.73	0.83	1000	1.32	1.14	1.14
1500	9.49	9.49	9.49	9.49	9.51	9.54	0.05	25.90	36.07	35.09	23.31	0.42	1500	1.09	1.12	1.18
2000	9.57	9.56	9.58	9.59	9.59	9.62	0.06	22.56	29.46	30.63	22.97	0.49	2000	1.07	1.08	1.15
2500	9.68	9.68	9.67	9.66	9.69	9.71	0.05	20.93	37.14	39.11	21.62	0.68	2500	1.14	1.22	1.18
3000	9.77	9.76	9.74	9.75	9.78	9.80	0.06	19.24	38.85	41.33	19.79	0.57	3000	1.15	1.24	1.25
3500	9.83	9.82	9.80	9.82	9.83	9.84	0.05	19.06	30.66	31.07	19.93	0.81	3500	1.11	1.06	1.04
4000	9.90	9.89	9.90	9.91	9.91	9.93	0.04	28.06	27.07	27.16	26.81	0.90	4000	1.13	1.23	1.20
4500	9.97	9.96	9.95	9.98	9.96	9.98	0.04	27.48	24.31	24.06	30.96	1.06	4500	1.06	1.18	1.24
5000	10.05	10.03	10.01	10.04	10.03	10.04	0.06	29.33	29.39	28.41	31.65	1.02	5000	1.09	1.10	1.15
5500	10.11	10.09	10.09	10.11	10.11	10.11	0.04	38.12	30.54	30.07	33.47	1.28	5500	1.09	1.13	1.12
6000	10.20	10.18	10.16	10.18	10.20	10.19	0.04	24.19	43.06	42.81	23.03	1.19	6000	1.16	1.13	1.09
6500	10.27	10.26	10.22	10.24	10.29	10.27	0.07	24.17	30.47	30.39	22.53	1.19	6500	1.20	1.07	1.08
7000	10.32	10.31	10.29	10.29	10.31	10.30	0.04	36.37	34.16	33.56	29.90	1.43	7000	1.17	1.03	1.02
7500	10.34	10.34	10.32	10.32	10.36	10.34	0.05	28.34	35.73	33.92	29.57	1.37	7500	1.05	1.02	1.03
8000	10.40	10.40	10.39	10.38	10.41	10.39	0.05	28.14	32.36	30.67	26.15	1.45	8000	1.02	1.08	1.07
8500	10.46	10.47	10.44	10.43	10.47	10.45	0.06	35.13	35.35	33.63	31.22	1.55	8500	1.07	1.06	1.08
9000	10.54	10.55	10.52	10.51	10.56	10.54	0.06	33.46	39.43	36.06	33.63	1.45	9000	1.15	1.06	1.06
9500	10.61	10.63	10.59	10.58	10.62	10.61	0.07	29.38	44.63	38.97	34.11	1.54	9500	1.19	1.08	1.11
10000	10.64	10.66	10.63	10.61	10.65	10.63	0.07	46.78	31.74	34.90	37.90	1.67	10000	1.07	1.14	1.14
11000	10.76	10.79	10.77	10.74	10.77	10.75	0.06	36.36	29.16	29.93	32.41	1.76	11000	1.15	1.11	1.14
12000	10.90	10.94	10.87	10.86	10.91	10.89	0.09	42.71	47.37	50.73	37.90	1.73	12000	1.19	1.14	1.15
13000	10.97	11.00	10.94	10.93	10.98	10.97	0.10	40.42	36.46	39.24	41.29	1.79	13000	1.08	1.20	1.21
14000	11.08	11.12	11.09	11.07	11.11	11.08	0.08	33.38	33.64	34.67	33.19	1.97	14000	1.13	1.13	1.15
15000	11.24	11.28	11.22	11.19	11.25	11.22	0.10	42.37	34.10	34.77	35.12	2.01	15000	1.22	1.31	1.31
16000	11.33	11.38	11.29	11.29	11.36	11.34	0.11	26.73	40.47	35.86	30.37	2.09	16000	1.24	1.11	1.10
17000	11.45	11.49	11.39	11.38	11.42	11.41	0.13	43.62	34.33	34.96	40.89	2.21	17000	1.15	1.09	1.04
18000	11.55	11.61	11.52	11.50	11.53	11.52	0.13	30.71	30.74	31.68	35.85	2.35	18000	1.20	1.15	1.10
19000	11.73	11.79	11.70	11.68	11.74	11.71	0.13	43.81	38.27	37.34	35.32	2.41	19000	1.34	1.25	1.20
20000	11.81	11.86	11.73	11.73	11.78	11.77	0.15	29.05	56.08	42.38	30.72	2.76	20000	1.24	1.16	1.08
21000	11.92	12.00	11.87	11.87	11.91	11.89	0.17	36.15	36.39	38.65	38.11	2.96	21000	1.28	1.27	1.18
22000	12.03	12.09	11.95	11.96	12.00	12.00	0.16	28.98	40.71	44.37	27.89	3.42	22000	1.25	1.13	1.06
23000	12.08	12.17	12.01	12.02	12.08	12.10	0.17	33.34	42.08	41.45	33.55	4.00	23000	1.09	1.04	1.07
24000	12.20	12.29	12.15	12.19	12.21	12.24	0.16	27.07	42.34	45.39	29.23	4.26	24000	1.18	1.02	1.07
25000	12.29	12.36	12.24	12.25	12.29	12.28	0.16	36.60	37.85	38.77	33.25	4.44	25000	1.10	1.06	1.10
26000	12.43	12.51	12.35	12.38	12.42	12.45	0.17	30.76	41.63	41.95	29.15	4.29	26000	1.09	1.13	1.12
26500	12.46	12.58	12.38	12.42	12.49	12.52	0.20	32.68	35.63	34.99	34.18	4.52	26500	1.11	1.13	1.18
27000	12.50	12.57	12.43	12.48	12.49	12.53	0.15	43.27	40.69	38.27	37.55	4.47	27000	1.02	1.06	1.11
27500	12.64	12.68	12.49	12.51	12.58	12.59	0.21	36.65	43.09	41.65	35.10	4.58	27500	1.13	1.05	1.05
28000	12.62	12.73	12.56	12.59	12.60	12.62	0.21	33.96	42.03	50.99	35.71	4.21	28000	1.07	1.07	1.03

¹Total Loss = Insertion Loss + 9dB Splitter Loss



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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	11.52	11.56	11.62	11.52	11.54	11.53	0.10	2.73	10.53	10.54	2.75	0.04	100	4.57	2.24	2.21
500	10.33	10.35	10.26	10.27	10.33	10.34	0.09	7.16	14.90	14.62	7.28	0.44	500	2.61	1.89	1.82
1000	9.47	9.52	9.54	9.49	9.51	9.51	0.07	14.25	23.68	22.52	13.75	0.35	1000	1.34	1.19	1.16
1500	9.50	9.54	9.54	9.50	9.55	9.53	0.05	26.25	35.00	34.47	23.34	0.29	1500	1.10	1.07	1.12
2000	9.58	9.63	9.64	9.61	9.64	9.63	0.06	22.40	29.43	30.56	22.79	0.49	2000	1.08	1.09	1.15
2500	9.71	9.75	9.76	9.70	9.73	9.73	0.05	21.13	36.54	38.28	21.83	0.53	2500	1.13	1.22	1.17
3000	9.80	9.85	9.83	9.78	9.83	9.81	0.07	18.81	37.60	39.97	19.36	0.63	3000	1.12	1.24	1.24
3500	9.90	9.94	9.91	9.88	9.91	9.88	0.06	19.53	29.87	30.44	20.40	0.74	3500	1.15	1.11	1.08
4000	9.96	10.01	10.01	9.95	9.99	9.97	0.05	29.22	26.34	26.46	28.86	0.93	4000	1.15	1.25	1.21
4500	10.04	10.09	10.07	10.02	10.04	10.02	0.07	27.96	24.35	24.06	32.10	1.01	4500	1.08	1.21	1.23
5000	10.13	10.17	10.15	10.11	10.13	10.10	0.06	28.78	30.53	29.41	31.51	1.08	5000	1.13	1.12	1.16
5500	10.20	10.24	10.23	10.20	10.22	10.19	0.05	38.36	30.92	30.48	33.40	1.13	5500	1.12	1.11	1.13
6000	10.32	10.36	10.34	10.28	10.35	10.29	0.08	22.14	42.47	44.50	21.13	1.21	6000	1.23	1.13	1.10
6500	10.37	10.42	10.38	10.33	10.41	10.35	0.09	24.37	28.99	29.00	22.74	1.40	6500	1.18	1.09	1.09
7000	10.43	10.47	10.46	10.41	10.44	10.39	0.08	39.61	33.11	32.55	31.78	1.60	7000	1.15	1.02	1.02
7500	10.48	10.53	10.50	10.45	10.50	10.45	0.08	27.58	34.03	32.70	28.42	1.63	7500	1.08	1.05	1.03
8000	10.54	10.59	10.57	10.53	10.56	10.50	0.08	27.58	32.58	31.03	25.66	1.72	8000	1.06	1.09	1.06
8500	10.62	10.67	10.64	10.59	10.63	10.57	0.10	36.75	38.14	36.37	32.43	1.86	8500	1.07	1.07	1.08
9000	10.70	10.75	10.73	10.67	10.72	10.66	0.10	34.48	41.20	37.21	33.97	1.95	9000	1.14	1.05	1.05
9500	10.79	10.85	10.80	10.74	10.79	10.75	0.10	33.13	47.12	42.49	44.60	2.03	9500	1.18	1.11	1.14
10000	10.84	10.90	10.84	10.80	10.84	10.79	0.11	40.40	30.29	33.01	31.89	2.11	10000	1.06	1.15	1.15
11000	10.99	11.05	11.03	10.96	10.99	10.92	0.14	44.45	28.34	29.07	36.69	2.22	11000	1.17	1.12	1.16
12000	11.23	11.29	11.24	11.16	11.22	11.15	0.15	36.13	40.51	42.05	41.20	2.51	12000	1.36	1.21	1.22
13000	11.23	11.30	11.24	11.18	11.24	11.17	0.12	44.59	37.67	41.10	42.23	2.71	13000	1.08	1.19	1.21
14000	11.38	11.45	11.40	11.36	11.41	11.31	0.14	31.29	34.00	35.41	30.16	2.93	14000	1.14	1.13	1.16
15000	11.58	11.64	11.60	11.53	11.59	11.50	0.14	36.42	35.49	36.04	29.41	3.03	15000	1.24	1.37	1.35
16000	11.63	11.71	11.61	11.57	11.64	11.54	0.17	30.97	36.26	33.16	37.56	3.28	16000	1.17	1.08	1.07
17000	11.80	11.87	11.77	11.73	11.77	11.69	0.18	38.12	38.08	36.81	43.06	3.42	17000	1.23	1.08	1.04
18000	11.94	12.02	11.92	11.88	11.89	11.80	0.21	32.49	31.89	32.16	38.64	3.65	18000	1.25	1.20	1.14
19000	12.04	12.11	12.01	11.96	12.02	11.92	0.19	37.24	36.91	36.27	31.28	3.88	19000	1.06	1.19	1.14
20000	12.17	12.26	12.15	12.11	12.16	12.06	0.20	31.22	47.63	42.27	31.78	4.03	20000	1.14	1.13	1.07
21000	12.33	12.41	12.28	12.25	12.28	12.18	0.23	32.47	39.37	42.98	35.46	4.31	21000	1.17	1.21	1.16
22000	12.46	12.54	12.39	12.36	12.39	12.32	0.22	33.35	47.21	49.37	32.60	4.43	22000	1.19	1.01	1.03
23000	12.57	12.68	12.56	12.52	12.55	12.45	0.22	47.08	37.77	37.81	34.86	4.54	23000	1.17	1.08	1.13
24000	12.71	12.82	12.69	12.66	12.67	12.58	0.25	26.00	49.92	53.31	29.34	4.84	24000	1.07	1.03	1.08
25000	12.82	12.91	12.81	12.76	12.77	12.66	0.25	41.77	40.47	40.61	38.84	4.85	25000	1.08	1.13	1.14
26000	12.94	13.04	12.94	12.91	12.95	12.85	0.20	32.68	38.96	39.23	32.64	5.25	26000	1.06	1.15	1.12
26500	13.06	13.17	13.00	12.97	12.96	12.87	0.30	43.54	34.35	33.85	54.18	5.05	26500	1.07	1.15	1.17
27000	13.08	13.18	13.05	13.02	13.04	12.94	0.24	36.23	38.23	37.32	33.99	5.27	27000	1.05	1.12	1.14
27500	13.19	13.27	13.10	13.06	13.10	13.01	0.26	42.67	55.96	47.95	41.06	5.29	27500	1.03	1.09	1.08
28000	13.29	13.39	13.24	13.19	13.25	13.11	0.28	33.82	40.62	42.87	31.75	4.98	28000	1.21	1.15	1.11

¹Total Loss = Insertion Loss + 9dB Splitter Loss



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