

# 8 Way-0° Power Splitter/Combiner

# ZC8PD-18263-S+

## 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
10000	9.81	9.81	9.80	9.80	9.84	9.83	0.05	17.54	24.74	29.55	19.84	0.35	10000	1.04	1.23	1.17
10500	9.88	9.88	9.92	9.90	9.90	9.88	0.07	22.25	26.19	31.12	24.07	0.46	10500	1.33	1.26	1.19
11000	9.84	9.84	9.87	9.87	9.84	9.82	0.07	32.72	25.94	28.51	39.33	0.87	11000	1.01	1.07	1.04
11500	9.89	9.89	9.92	9.95	9.92	9.94	0.06	26.46	25.42	28.03	33.90	0.79	11500	1.22	1.05	1.03
12000	9.96	9.96	10.03	10.00	9.99	10.00	0.07	22.06	27.63	35.72	21.60	0.63	12000	1.31	1.14	1.19
12500	10.02	10.01	10.07	10.09	10.03	10.03	0.08	20.28	33.76	31.61	19.39	0.60	12500	1.35	1.05	1.12
13000	9.99	9.97	10.03	10.02	10.00	9.98	0.07	26.94	33.84	27.00	22.59	1.00	13000	1.19	1.18	1.12
13500	9.99	9.97	10.00	10.01	10.02	10.02	0.05	21.44	40.10	30.89	20.66	0.85	13500	1.04	1.16	1.16
14000	10.05	10.02	10.05	10.07	10.05	10.07	0.05	26.08	38.02	33.74	29.11	0.88	14000	1.19	1.30	1.39
14500	10.08	10.05	10.08	10.05	10.07	10.07	0.05	32.49	31.67	29.12	31.35	0.95	14500	1.18	1.33	1.37
15000	10.11	10.09	10.07	10.13	10.16	10.14	0.09	27.97	28.58	26.81	24.12	1.05	15000	1.12	1.26	1.23
15500	10.17	10.14	10.20	10.17	10.14	10.13	0.11	24.67	27.20	25.70	22.42	1.00	15500	1.16	1.14	1.09
16000	10.07	10.06	10.18	10.18	10.12	10.12	0.13	20.18	32.26	30.47	19.74	1.28	16000	1.12	1.11	1.17
16500	10.26	10.24	10.25	10.25	10.29	10.26	0.07	24.37	32.77	32.27	24.72	1.35	16500	1.23	1.22	1.21
17000	10.21	10.20	10.17	10.22	10.27	10.22	0.09	47.33	25.70	25.35	49.07	1.03	17000	1.07	1.15	1.11
17500	10.22	10.22	10.30	10.23	10.23	10.19	0.15	31.36	26.08	26.24	31.28	1.29	17500	1.12	1.16	1.14
18000	10.31	10.31	10.36	10.39	10.34	10.33	0.09	23.34	30.80	32.21	23.07	1.51	18000	1.29	1.14	1.15
18500	10.29	10.29	10.30	10.30	10.32	10.32	0.04	24.38	36.52	35.85	23.99	1.34	18500	1.07	1.07	1.04
19000	10.31	10.31	10.35	10.32	10.34	10.34	0.05	35.61	35.02	31.75	31.60	1.23	19000	1.13	1.22	1.19
19500	10.31	10.32	10.35	10.34	10.34	10.34	0.05	33.32	30.37	29.05	34.26	1.35	19500	1.05	1.22	1.23
20000	10.43	10.43	10.45	10.44	10.44	10.45	0.04	32.60	31.05	33.56	30.96	1.33	20000	1.21	1.26	1.31
20500	10.43	10.43	10.47	10.47	10.46	10.46	0.05	22.17	34.64	36.48	21.39	1.21	20500	1.24	1.10	1.15
21000	10.43	10.44	10.48	10.47	10.45	10.43	0.09	26.03	31.92	27.90	23.92	1.37	21000	1.15	1.11	1.09
21500	10.47	10.47	10.49	10.51	10.54	10.51	0.08	23.20	33.77	28.87	22.00	1.45	21500	1.21	1.02	1.05
22000	10.51	10.51	10.53	10.52	10.53	10.52	0.07	23.39	49.73	36.13	23.02	1.46	22000	1.17	1.09	1.14
22500	10.48	10.47	10.50	10.52	10.48	10.52	0.07	34.33	35.62	33.94	35.89	1.40	22500	1.12	1.15	1.25
23000	10.56	10.55	10.57	10.56	10.55	10.58	0.07	33.67	30.41	29.18	31.00	1.90	23000	1.13	1.18	1.23
23500	10.57	10.55	10.55	10.58	10.63	10.63	0.08	29.56	29.18	27.54	27.15	1.37	23500	1.04	1.23	1.22
24000	10.63	10.61	10.66	10.64	10.61	10.62	0.10	22.82	32.55	30.17	22.34	1.77	24000	1.17	1.15	1.14
24500	10.63	10.61	10.66	10.67	10.62	10.68	0.07	22.99	33.59	32.72	22.83	1.91	24500	1.15	1.21	1.27
25000	10.76	10.74	10.73	10.76	10.76	10.82	0.09	29.21	28.96	28.61	29.33	1.90	25000	1.30	1.35	1.37
25500	10.73	10.72	10.70	10.68	10.73	10.76	0.08	35.28	28.09	27.77	35.04	1.47	25500	1.03	1.35	1.31
26000	10.86	10.86	10.88	10.87	10.83	10.84	0.10	31.70	29.34	29.18	29.24	2.03	26000	1.42	1.31	1.22
26500	10.78	10.78	10.82	10.83	10.79	10.83	0.05	23.90	34.77	34.35	23.48	2.20	26500	1.30	1.11	1.03
27000	10.75	10.77	10.76	10.76	10.78	10.81	0.06	24.95	35.92	32.60	24.89	1.82	27000	1.15	1.16	1.09
27500	10.79	10.80	10.79	10.76	10.78	10.77	0.07	27.60	30.02	28.08	27.50	1.78	27500	1.08	1.15	1.07
28000	10.86	10.88	10.88	10.89	10.86	10.84	0.08	28.03	31.58	29.98	28.79	2.25	28000	1.25	1.21	1.16
28500	10.88	10.90	10.91	10.93	10.90	10.92	0.05	39.68	46.35	38.29	33.34	2.26	28500	1.27	1.23	1.26
29000	10.86	10.86	10.89	10.90	10.86	10.89	0.06	29.18	35.19	31.11	26.99	1.92	29000	1.05	1.16	1.19
30000	10.97	10.98	10.98	11.00	10.99	10.98	0.08	22.70	38.36	33.08	22.25	2.11	30000	1.26	1.12	1.14

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



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# 8 Way-0° Power Splitter/Combiner

# ZC8PD-18263-S+

## 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
10000	9.80	9.82	9.75	9.77	9.82	9.81	0.07	17.63	24.83	29.51	19.91	1.38	10000	1.05	1.24	1.19
10500	9.86	9.89	9.87	9.89	9.90	9.88	0.04	22.43	26.05	30.67	24.30	1.44	10500	1.34	1.26	1.19
11000	9.82	9.84	9.83	9.88	9.82	9.81	0.08	32.32	25.88	28.55	37.38	1.18	11000	1.00	1.06	1.03
11500	9.86	9.88	9.88	9.92	9.90	9.92	0.07	26.60	25.52	28.19	32.73	1.34	11500	1.21	1.05	1.03
12000	9.94	9.96	9.99	9.99	9.98	10.00	0.06	21.96	27.73	35.77	21.40	1.37	12000	1.31	1.14	1.18
12500	9.99	10.01	10.03	10.05	10.01	10.01	0.06	20.48	33.77	31.55	19.52	1.57	12500	1.36	1.05	1.12
13000	9.96	9.96	9.99	10.02	9.99	9.96	0.07	27.20	33.83	27.04	22.89	1.53	13000	1.20	1.18	1.12
13500	9.95	9.95	9.96	9.99	10.00	9.99	0.05	21.49	39.97	31.24	20.88	1.75	13500	1.06	1.15	1.16
14000	10.01	10.03	10.02	10.05	10.03	10.06	0.06	26.87	37.12	33.96	30.69	1.59	14000	1.20	1.30	1.39
14500	10.03	10.05	10.03	10.03	10.04	10.06	0.05	31.88	31.21	28.70	30.07	1.77	14500	1.14	1.33	1.36
15000	10.06	10.08	10.01	10.10	10.14	10.11	0.13	27.74	28.70	26.81	23.98	1.55	15000	1.11	1.26	1.23
15500	10.11	10.12	10.13	10.15	10.13	10.11	0.07	24.28	27.47	25.95	22.14	1.72	15500	1.15	1.13	1.09
16000	10.03	10.05	10.14	10.18	10.11	10.11	0.14	20.29	32.44	30.56	19.88	1.88	16000	1.13	1.11	1.18
16500	10.19	10.21	10.19	10.22	10.28	10.23	0.09	24.76	32.25	31.93	25.00	2.16	16500	1.20	1.20	1.21
17000	10.18	10.21	10.14	10.19	10.26	10.18	0.12	49.99	25.48	25.20	45.47	2.16	17000	1.07	1.14	1.10
17500	10.18	10.21	10.25	10.24	10.22	10.17	0.11	30.83	25.96	26.12	30.55	1.97	17500	1.17	1.17	1.15
18000	10.27	10.31	10.33	10.38	10.34	10.32	0.10	23.12	31.30	32.79	22.79	2.24	18000	1.28	1.15	1.15
18500	10.23	10.27	10.25	10.28	10.31	10.29	0.08	24.99	36.41	35.04	24.46	1.96	18500	1.04	1.09	1.06
19000	10.29	10.33	10.32	10.32	10.34	10.31	0.06	36.95	34.19	31.43	32.11	2.15	19000	1.17	1.24	1.21
19500	10.26	10.30	10.30	10.35	10.34	10.32	0.08	34.25	30.65	29.54	36.35	2.23	19500	1.08	1.24	1.25
20000	10.41	10.45	10.44	10.45	10.44	10.44	0.05	31.38	31.20	34.08	29.79	2.29	20000	1.25	1.27	1.31
20500	10.40	10.42	10.43	10.49	10.46	10.43	0.10	22.07	34.65	36.53	21.30	2.37	20500	1.23	1.09	1.13
21000	10.40	10.43	10.45	10.47	10.45	10.40	0.12	26.34	31.92	27.87	24.15	2.32	21000	1.19	1.12	1.09
21500	10.45	10.47	10.47	10.51	10.53	10.48	0.10	23.00	33.58	28.88	21.88	2.39	21500	1.27	1.02	1.04
22000	10.47	10.48	10.47	10.49	10.50	10.48	0.07	23.85	45.74	37.99	23.36	2.82	22000	1.13	1.10	1.15
22500	10.42	10.43	10.45	10.51	10.46	10.48	0.09	37.56	34.39	33.02	40.05	2.37	22500	1.22	1.14	1.24
23000	10.54	10.55	10.55	10.54	10.53	10.53	0.08	33.50	30.71	29.12	30.91	2.54	23000	1.16	1.16	1.22
23500	10.49	10.51	10.46	10.55	10.60	10.58	0.14	28.55	29.71	28.03	26.53	2.70	23500	1.09	1.21	1.21
24000	10.59	10.60	10.63	10.61	10.58	10.57	0.13	22.69	32.85	30.41	22.35	2.70	24000	1.20	1.12	1.12
24500	10.53	10.55	10.59	10.65	10.59	10.64	0.11	23.21	33.74	32.63	23.16	2.88	24500	1.12	1.20	1.26
25000	10.71	10.73	10.67	10.73	10.71	10.76	0.09	30.38	28.60	28.33	30.36	2.96	25000	1.32	1.33	1.35
25500	10.65	10.68	10.61	10.65	10.69	10.70	0.09	35.99	28.13	27.75	35.14	3.06	25500	1.05	1.34	1.31
26000	10.80	10.83	10.85	10.86	10.81	10.79	0.13	30.13	30.05	29.76	28.38	2.87	26000	1.43	1.30	1.22
26500	10.71	10.75	10.76	10.80	10.75	10.78	0.09	23.90	34.74	34.18	23.68	3.09	26500	1.30	1.11	1.04
27000	10.70	10.75	10.69	10.75	10.75	10.77	0.08	25.01	36.16	32.52	25.30	3.07	27000	1.18	1.18	1.11
27500	10.70	10.75	10.70	10.75	10.73	10.71	0.08	28.18	29.95	28.02	28.23	3.09	27500	1.09	1.17	1.08
28000	10.81	10.85	10.83	10.89	10.83	10.81	0.13	28.26	30.97	29.72	29.52	2.97	28000	1.30	1.24	1.19
28500	10.81	10.85	10.85	10.92	10.87	10.87	0.11	35.53	48.78	40.67	30.80	3.01	28500	1.28	1.23	1.26
29000	10.79	10.82	10.83	10.90	10.82	10.84	0.12	29.41	33.31	29.97	26.94	3.15	29000	1.08	1.16	1.17
30000	10.93	10.96	10.95	11.02	10.96	10.95	0.13	22.80	42.86	35.61	22.27	3.46	30000	1.33	1.16	1.17

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



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# 8 Way-0° Power Splitter/Combiner

# ZC8PD-18263-S+

## 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
10000	9.85	9.86	9.85	9.83	9.87	9.86	0.03	17.31	24.42	29.66	19.93	1.78	10000	1.03	1.24	1.17
10500	9.92	9.92	9.94	9.93	9.92	9.91	0.06	21.40	24.77	30.47	24.04	2.01	10500	1.31	1.25	1.17
11000	9.88	9.88	9.90	9.93	9.88	9.87	0.08	28.18	24.87	29.60	32.75	2.58	11000	1.01	1.05	1.02
11500	9.92	9.93	9.96	9.98	9.95	9.97	0.06	25.39	25.09	29.35	31.25	2.45	11500	1.20	1.08	1.02
12000	10.00	10.01	10.06	10.03	10.02	10.04	0.06	22.35	26.58	34.77	22.18	2.46	12000	1.30	1.12	1.14
12500	10.05	10.06	10.10	10.13	10.07	10.08	0.08	21.27	32.05	32.72	20.06	2.42	12500	1.34	1.03	1.10
13000	10.02	10.03	10.07	10.07	10.03	10.03	0.07	28.66	38.28	28.15	23.02	2.78	13000	1.17	1.17	1.11
13500	10.02	10.02	10.04	10.07	10.06	10.06	0.05	21.41	45.22	32.03	20.74	2.75	13500	1.03	1.17	1.15
14000	10.08	10.08	10.10	10.12	10.09	10.12	0.04	24.81	35.63	34.22	28.30	2.95	14000	1.18	1.26	1.37
14500	10.10	10.10	10.13	10.10	10.10	10.12	0.05	30.99	31.23	29.35	31.95	2.87	14500	1.18	1.34	1.38
15000	10.15	10.15	10.12	10.17	10.21	10.19	0.09	29.08	28.55	27.03	24.18	3.06	15000	1.11	1.29	1.23
15500	10.21	10.20	10.24	10.21	10.18	10.17	0.11	24.87	27.20	25.73	22.40	3.23	15500	1.15	1.17	1.09
16000	10.11	10.11	10.25	10.24	10.16	10.17	0.14	19.95	31.86	29.89	19.60	3.56	16000	1.12	1.07	1.14
16500	10.30	10.30	10.30	10.31	10.34	10.32	0.07	22.72	32.12	32.92	23.40	3.28	16500	1.23	1.20	1.19
17000	10.27	10.27	10.22	10.27	10.31	10.27	0.10	36.26	25.15	25.33	42.38	3.39	17000	1.08	1.15	1.10
17500	10.27	10.28	10.35	10.27	10.28	10.25	0.14	29.71	25.31	25.77	31.36	3.83	17500	1.11	1.16	1.13
18000	10.37	10.38	10.43	10.46	10.40	10.40	0.10	23.27	30.14	31.97	23.58	3.91	18000	1.29	1.14	1.16
18500	10.35	10.36	10.36	10.37	10.38	10.38	0.04	25.33	34.67	35.93	25.41	3.95	18500	1.08	1.05	1.03
19000	10.37	10.38	10.41	10.39	10.39	10.39	0.06	38.93	33.40	32.58	34.37	3.98	19000	1.12	1.21	1.18
19500	10.38	10.39	10.41	10.41	10.40	10.41	0.04	33.86	30.47	30.31	36.97	4.13	19500	1.04	1.21	1.23
20000	10.49	10.50	10.51	10.50	10.50	10.51	0.04	30.73	30.41	33.67	31.00	4.17	20000	1.19	1.24	1.30
20500	10.50	10.51	10.55	10.53	10.52	10.52	0.06	22.20	34.32	38.44	21.60	4.11	20500	1.24	1.10	1.16
21000	10.50	10.51	10.55	10.53	10.51	10.50	0.10	25.97	33.83	28.89	23.88	4.36	21000	1.15	1.11	1.10
21500	10.54	10.54	10.56	10.57	10.60	10.57	0.08	23.70	35.11	29.43	22.25	4.41	21500	1.19	1.03	1.06
22000	10.59	10.58	10.58	10.58	10.60	10.58	0.07	23.28	44.05	37.47	22.82	4.54	22000	1.16	1.06	1.12
22500	10.56	10.55	10.58	10.59	10.56	10.58	0.08	32.24	35.06	34.33	34.16	4.66	22500	1.13	1.14	1.24
23000	10.63	10.62	10.65	10.63	10.63	10.65	0.07	36.61	30.79	29.85	32.60	4.97	23000	1.13	1.19	1.23
23500	10.66	10.64	10.61	10.66	10.69	10.69	0.08	31.16	29.16	27.76	27.80	4.70	23500	1.05	1.24	1.22
24000	10.72	10.70	10.73	10.71	10.69	10.69	0.11	23.60	31.77	29.62	23.06	5.27	24000	1.19	1.16	1.13
24500	10.70	10.68	10.75	10.74	10.70	10.75	0.08	22.77	34.07	33.74	22.63	5.36	24500	1.13	1.19	1.25
25000	10.86	10.84	10.82	10.84	10.84	10.89	0.07	29.46	28.39	28.58	29.40	5.24	25000	1.31	1.34	1.36
25500	10.83	10.82	10.77	10.76	10.80	10.81	0.08	33.76	27.57	27.61	33.30	5.32	25500	1.02	1.33	1.30
26000	10.93	10.92	10.96	10.93	10.91	10.91	0.11	30.05	29.49	29.80	28.49	5.89	26000	1.39	1.28	1.21
26500	10.87	10.87	10.91	10.92	10.87	10.90	0.08	24.33	33.06	33.51	24.15	5.99	26500	1.29	1.08	1.03
27000	10.85	10.85	10.84	10.84	10.85	10.87	0.05	24.82	36.72	34.24	24.93	5.82	27000	1.12	1.13	1.09
27500	10.88	10.89	10.87	10.84	10.87	10.86	0.07	29.28	30.73	29.00	28.71	5.94	27500	1.06	1.12	1.06
28000	10.93	10.94	10.94	10.94	10.93	10.91	0.08	28.38	30.48	29.52	28.77	6.28	28000	1.18	1.17	1.15
28500	10.98	10.99	11.00	11.01	10.99	10.99	0.06	39.47	40.70	40.58	33.47	6.37	28500	1.28	1.23	1.26
29000	10.97	10.96	10.99	10.99	10.96	10.97	0.07	29.08	36.13	31.47	27.08	6.25	29000	1.09	1.18	1.20
30000	11.06	11.05	11.07	11.07	11.07	11.04	0.09	23.12	41.84	34.76	22.33	6.54	30000	1.21	1.10	1.13

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



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