

# 16 Way-0° Power Splitter/Combiner

# ZC16PD-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-5	S-8	S-9	S-13	S-16		1-2	5-7	9-11	13-16			S	1	16
3000	12.90	12.88	12.85	12.92	12.86	12.92	0.07	12.42	21.02	20.21	21.31	1.21	3000	1.47	1.12	1.12
4000	12.93	12.88	12.87	12.89	12.86	12.91	0.08	16.76	20.16	18.96	19.41	1.53	4000	1.18	1.29	1.33
5000	12.99	12.99	12.99	12.99	12.97	12.96	0.08	17.74	25.30	24.78	24.73	1.48	5000	1.01	1.25	1.27
6000	13.17	13.15	13.15	13.15	13.10	13.13	0.10	21.16	31.97	31.95	32.12	1.75	6000	1.12	1.18	1.25
7000	13.30	13.28	13.27	13.32	13.24	13.28	0.08	25.28	38.93	31.54	33.07	1.87	7000	1.15	1.30	1.30
8000	13.39	13.39	13.37	13.44	13.33	13.41	0.10	20.45	31.40	28.33	28.89	2.19	8000	1.07	1.19	1.16
9000	13.56	13.56	13.55	13.58	13.52	13.55	0.07	23.78	35.95	34.96	37.33	2.58	9000	1.16	1.29	1.32
10000	13.64	13.64	13.63	13.65	13.60	13.60	0.11	25.86	27.72	27.07	27.04	2.74	10000	1.13	1.03	1.04
11000	13.83	13.82	13.84	13.88	13.81	13.83	0.07	29.79	40.54	37.19	39.04	3.15	11000	1.32	1.18	1.22
12000	13.93	13.94	13.95	14.05	13.91	13.99	0.13	21.11	34.45	33.37	35.77	3.29	12000	1.33	1.18	1.20
13000	13.97	13.98	13.97	14.02	13.95	13.96	0.08	27.33	28.74	27.30	27.41	3.60	13000	1.16	1.29	1.33
14000	14.07	14.09	14.08	14.10	14.04	14.04	0.10	22.44	39.85	36.53	37.75	3.56	14000	1.11	1.25	1.27
15000	14.31	14.34	14.35	14.42	14.28	14.33	0.14	37.75	31.00	29.70	30.14	3.94	15000	1.39	1.37	1.39
16000	14.38	14.35	14.37	14.43	14.31	14.41	0.13	28.16	36.52	33.38	33.21	4.43	16000	1.29	1.26	1.25
17000	14.40	14.39	14.41	14.47	14.34	14.42	0.14	27.45	51.74	46.55	48.99	4.75	17000	1.16	1.14	1.14
18000	14.52	14.51	14.55	14.55	14.46	14.50	0.14	23.70	37.61	33.54	35.05	4.84	18000	1.16	1.12	1.13
19000	14.66	14.69	14.70	14.72	14.64	14.65	0.14	27.96	29.98	28.88	29.86	5.08	19000	1.33	1.14	1.16
20000	14.71	14.74	14.75	14.79	14.67	14.71	0.14	26.15	37.03	35.73	38.13	5.46	20000	1.07	1.21	1.26
21000	14.81	14.83	14.85	14.88	14.77	14.81	0.13	27.40	35.59	32.29	35.00	5.51	21000	1.10	1.18	1.20
22000	14.96	14.97	14.99	15.01	14.92	14.94	0.13	28.81	36.91	34.77	34.23	5.50	22000	1.22	1.19	1.20
23000	15.02	15.03	15.07	15.08	14.97	14.99	0.15	23.57	42.02	38.33	39.16	5.82	23000	1.04	1.12	1.11
24000	15.22	15.24	15.29	15.31	15.16	15.22	0.19	24.53	32.53	32.26	33.21	6.17	24000	1.32	1.11	1.07
25000	15.22	15.23	15.28	15.33	15.18	15.25	0.17	26.84	34.38	32.94	32.76	6.72	25000	1.12	1.09	1.04
27000	15.40	15.45	15.48	15.48	15.37	15.42	0.18	27.49	37.45	35.15	37.16	6.81	27000	1.04	1.07	1.11
28000	15.52	15.56	15.61	15.62	15.48	15.57	0.16	24.25	37.22	36.82	36.29	7.02	28000	1.11	1.10	1.15
29000	15.64	15.65	15.70	15.74	15.60	15.65	0.16	28.76	43.46	43.70	42.17	7.20	29000	1.07	1.17	1.19
30000	15.79	15.81	15.86	15.88	15.75	15.82	0.18	26.11	38.46	35.87	36.39	7.33	30000	1.24	1.12	1.13
31000	15.86	15.87	15.93	15.97	15.81	15.92	0.19	35.16	39.99	38.43	38.01	7.85	31000	1.14	1.11	1.12
32000	15.98	16.02	16.07	16.10	15.94	16.05	0.21	25.42	47.92	40.41	49.72	8.10	32000	1.24	1.09	1.10
33000	16.07	16.12	16.18	16.19	16.05	16.14	0.19	38.50	35.14	33.91	35.21	8.20	33000	1.23	1.10	1.14
35000	16.38	16.40	16.47	16.52	16.31	16.46	0.21	31.22	49.03	41.60	51.31	8.80	35000	1.28	1.35	1.42
37000	16.64	16.64	16.72	16.74	16.53	16.71	0.25	32.28	44.58	44.43	41.28	9.32	37000	1.33	1.33	1.37
40000	16.80	16.85	16.94	16.95	16.76	16.88	0.27	27.59	43.32	45.99	43.63	9.89	40000	1.10	1.10	1.06
43500	17.18	17.23	17.31	17.35	17.14	17.30	0.25	29.35	35.93	35.77	35.29	10.73	43500	1.11	1.26	1.25

<sup>1</sup>Total Loss = Insertion Loss + 12dB Splitter Loss



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# 16 Way-0° Power Splitter/Combiner

# ZC16PD-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-5	S-8	S-9	S-13	S-16		1-2	5-7	9-11	13-16			S	1	16
3000	12.95	12.92	12.87	12.93	12.96	12.97	0.10	12.57	21.27	20.48	21.55	4.18	3000	1.52	1.13	1.12
4000	12.87	12.89	12.84	12.82	12.85	12.87	0.14	16.81	20.21	19.04	19.47	2.72	4000	1.17	1.28	1.30
5000	12.90	12.96	12.90	12.95	12.92	12.93	0.08	17.89	25.14	24.74	24.65	4.32	5000	1.01	1.24	1.26
6000	13.09	13.12	13.07	13.06	13.04	13.09	0.12	21.28	31.79	32.13	32.12	2.58	6000	1.13	1.14	1.22
7000	13.21	13.25	13.20	13.23	13.19	13.23	0.08	25.61	40.68	32.36	33.80	1.99	7000	1.17	1.26	1.29
8000	13.29	13.33	13.27	13.33	13.25	13.32	0.09	20.69	31.99	28.43	29.02	2.11	8000	1.07	1.18	1.17
9000	13.45	13.50	13.45	13.47	13.42	13.48	0.09	24.87	37.72	36.41	38.85	3.11	9000	1.17	1.27	1.31
10000	13.53	13.56	13.51	13.53	13.49	13.52	0.12	25.59	27.85	27.33	27.24	3.52	10000	1.12	1.01	1.04
11000	13.71	13.74	13.71	13.73	13.68	13.72	0.09	27.97	38.51	35.50	37.71	2.42	11000	1.29	1.18	1.21
12000	13.78	13.83	13.79	13.87	13.76	13.85	0.11	20.76	35.99	35.52	37.28	2.62	12000	1.29	1.17	1.16
13000	13.86	13.89	13.83	13.88	13.82	13.86	0.09	27.53	28.84	27.38	27.56	2.38	13000	1.18	1.30	1.32
14000	13.91	13.97	13.92	13.95	13.90	13.91	0.10	22.80	38.13	36.22	36.77	2.95	14000	1.03	1.27	1.29
15000	14.29	14.32	14.31	14.36	14.26	14.31	0.11	37.82	30.36	29.48	29.88	3.58	15000	1.57	1.36	1.37
16000	14.20	14.22	14.18	14.23	14.13	14.22	0.14	29.28	34.01	31.74	31.78	3.00	16000	1.23	1.26	1.22
17000	14.24	14.26	14.23	14.30	14.17	14.27	0.15	25.99	49.18	49.22	54.77	2.51	17000	1.17	1.12	1.10
18000	14.34	14.36	14.35	14.36	14.29	14.34	0.16	24.58	37.64	34.01	35.23	2.20	18000	1.13	1.13	1.14
19000	14.46	14.52	14.47	14.50	14.42	14.46	0.17	27.94	30.45	29.39	30.40	3.42	19000	1.26	1.15	1.17
20000	14.53	14.60	14.54	14.58	14.47	14.55	0.20	27.25	37.11	35.50	37.70	3.03	20000	1.12	1.22	1.26
21000	14.61	14.67	14.61	14.64	14.54	14.64	0.19	26.24	38.48	33.76	36.94	2.88	21000	1.09	1.16	1.17
22000	14.72	14.78	14.73	14.73	14.67	14.74	0.18	28.94	36.83	34.65	34.15	2.36	22000	1.14	1.18	1.20
23000	14.80	14.86	14.82	14.85	14.73	14.78	0.22	23.76	40.13	38.27	38.56	3.09	23000	1.10	1.14	1.14
24000	15.02	15.07	15.03	15.06	14.93	15.02	0.23	25.19	33.82	33.20	34.44	2.82	24000	1.34	1.11	1.07
25000	15.00	15.07	15.03	15.05	14.93	15.05	0.23	27.05	33.86	32.36	32.48	3.27	25000	1.14	1.09	1.05
27000	15.16	15.26	15.21	15.21	15.11	15.18	0.24	27.55	39.23	35.97	38.65	2.70	27000	1.08	1.05	1.09
28000	15.26	15.35	15.31	15.34	15.19	15.29	0.25	24.25	36.12	35.78	35.79	3.57	28000	1.08	1.09	1.14
29000	15.37	15.44	15.41	15.41	15.30	15.42	0.24	31.43	40.96	45.73	40.13	3.58	29000	1.07	1.20	1.21
30000	15.50	15.58	15.53	15.53	15.43	15.55	0.26	26.45	37.43	34.77	36.01	4.75	30000	1.17	1.14	1.14
31000	15.57	15.65	15.61	15.63	15.48	15.63	0.29	35.47	38.92	37.85	37.11	5.32	31000	1.10	1.11	1.10
32000	15.69	15.79	15.74	15.78	15.61	15.75	0.30	25.43	73.80	41.85	65.92	4.82	32000	1.17	1.11	1.10
33000	15.76	15.88	15.82	15.86	15.72	15.85	0.28	38.42	38.84	36.01	37.90	4.90	33000	1.20	1.13	1.18
35000	16.02	16.15	16.09	16.09	15.92	16.12	0.34	27.34	43.64	56.93	44.54	7.26	35000	1.12	1.33	1.37
37000	16.21	16.31	16.25	16.26	16.10	16.32	0.35	29.71	36.10	38.69	36.44	4.38	37000	1.13	1.32	1.33
40000	16.41	16.58	16.52	16.53	16.36	16.53	0.35	29.88	37.21	38.60	38.64	6.84	40000	1.11	1.13	1.06
43500	16.79	16.92	16.85	16.87	16.71	16.90	0.37	28.44	34.86	34.47	34.25	6.91	43500	1.05	1.30	1.27

<sup>1</sup>Total Loss = Insertion Loss + 12dB Splitter Loss



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# 16 Way-0° Power Splitter/Combiner

# ZC16PD-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-5	S-8	S-9	S-13	S-16		1-2	5-7	9-11	13-16			S	1	16
3000	12.89	12.90	12.92	12.90	12.98	12.91	0.15	14.13	22.11	20.90	22.14	0.97	3000	1.56	1.11	1.11
4000	12.90	12.93	12.89	12.89	12.96	12.89	0.13	16.65	21.62	19.56	19.96	1.06	4000	1.24	1.30	1.34
5000	13.01	13.01	13.00	13.01	13.04	12.99	0.11	16.99	26.21	24.84	24.54	0.87	5000	1.12	1.22	1.24
6000	13.10	13.14	13.08	13.09	13.14	13.08	0.09	23.28	32.03	31.46	31.00	2.55	6000	1.08	1.14	1.18
7000	13.25	13.29	13.25	13.25	13.30	13.25	0.06	26.17	44.52	34.43	36.65	2.52	7000	1.03	1.24	1.25
8000	13.36	13.43	13.40	13.37	13.44	13.39	0.10	20.93	32.29	28.23	28.46	2.20	8000	1.04	1.19	1.15
9000	13.53	13.57	13.50	13.52	13.58	13.50	0.08	23.44	38.38	35.85	38.12	2.01	9000	1.14	1.25	1.27
10000	13.58	13.63	13.57	13.57	13.63	13.56	0.08	28.32	29.33	27.09	26.81	0.73	10000	1.14	1.01	1.01
11000	13.83	13.89	13.82	13.83	13.90	13.82	0.07	26.90	44.08	38.60	40.97	0.61	11000	1.35	1.15	1.18
12000	13.89	13.99	13.91	13.90	13.98	13.90	0.11	21.97	39.51	36.64	39.00	1.22	12000	1.22	1.16	1.20
13000	13.94	14.01	13.95	13.94	14.01	13.94	0.08	28.64	31.86	28.21	28.16	0.81	13000	1.09	1.26	1.30
14000	14.02	14.11	14.01	14.02	14.08	14.02	0.11	22.96	45.59	38.74	40.01	1.51	14000	1.14	1.18	1.22
15000	14.28	14.37	14.28	14.27	14.33	14.27	0.10	36.02	33.85	30.34	30.53	2.27	15000	1.15	1.29	1.36
16000	14.35	14.42	14.34	14.35	14.38	14.34	0.09	29.73	45.88	36.65	36.85	2.31	16000	1.22	1.24	1.25
17000	14.39	14.47	14.38	14.39	14.42	14.38	0.10	28.12	47.83	45.36	42.69	1.93	17000	1.16	1.14	1.16
18000	14.42	14.58	14.43	14.41	14.51	14.43	0.17	24.42	41.37	33.20	34.78	1.31	18000	1.09	1.11	1.13
19000	14.60	14.75	14.61	14.60	14.72	14.61	0.15	29.64	33.87	28.38	29.29	1.17	19000	1.33	1.09	1.13
20000	14.68	14.79	14.67	14.68	14.75	14.67	0.15	27.25	39.39	33.60	35.15	1.45	20000	1.23	1.16	1.22
21000	14.82	14.90	14.80	14.82	14.87	14.80	0.14	28.83	39.34	31.31	33.57	1.37	21000	1.04	1.16	1.18
22000	14.90	15.00	14.89	14.90	14.98	14.89	0.12	29.00	40.36	33.32	32.77	1.31	22000	1.11	1.19	1.19
23000	14.98	15.10	15.00	14.98	15.11	15.00	0.16	25.31	43.79	35.97	35.95	1.44	23000	1.16	1.12	1.12
24000	15.20	15.32	15.23	15.20	15.23	15.23	0.12	24.83	38.33	32.01	32.40	1.25	24000	1.20	1.13	1.09
25000	15.24	15.36	15.22	15.24	15.29	15.21	0.15	28.38	42.59	34.32	33.68	0.88	25000	1.14	1.09	1.06
27000	15.40	15.53	15.40	15.40	15.48	15.39	0.14	29.40	46.78	37.51	39.32	1.28	27000	1.01	1.07	1.09
28000	15.51	15.66	15.52	15.51	15.57	15.52	0.15	24.81	46.06	38.52	37.17	1.57	28000	1.15	1.09	1.15
29000	15.65	15.78	15.66	15.65	15.73	15.66	0.13	31.20	52.76	51.35	41.69	1.85	29000	1.12	1.15	1.17
30000	15.71	15.86	15.71	15.71	15.83	15.71	0.17	26.96	52.89	39.58	40.75	1.77	30000	1.15	1.10	1.12
31000	15.92	16.06	15.90	15.91	15.96	15.90	0.16	37.77	54.70	40.74	44.28	1.75	31000	1.26	1.07	1.11
32000	16.06	16.20	16.02	16.05	16.06	16.02	0.18	26.45	49.39	36.91	41.02	1.64	32000	1.23	1.11	1.13
33000	16.05	16.21	16.04	16.04	16.13	16.04	0.17	39.59	41.84	31.83	33.28	1.85	33000	1.23	1.16	1.17
35000	16.33	16.52	16.35	16.32	16.43	16.35	0.21	30.58	51.77	39.51	43.74	1.90	35000	1.21	1.34	1.42
37000	16.59	16.80	16.55	16.58	16.66	16.54	0.26	32.36	49.37	40.91	38.55	1.87	37000	1.34	1.29	1.34
40000	16.75	16.95	16.71	16.74	16.93	16.70	0.29	30.35	49.68	41.20	41.86	1.43	40000	1.13	1.06	1.04
43500	17.12	17.40	17.15	17.11	17.35	17.14	0.33	33.87	42.70	32.58	31.65	2.65	43500	1.29	1.24	1.21

<sup>1</sup>Total Loss = Insertion Loss + 12dB Splitter Loss



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