

3 Way-0° Power Splitter/Combiner

ZC3PD-K1844+

Typical Performance Data

TEST CONDITIONS: INPUT POWER = 0 dBm @Temperature = +25°C

FREQ.	TOTAL LOSS ¹			AMP. UNBAL.	PHASE UNBAL.	ISOLATION			VSWR			
(MHz)	(dB)			(dB)	(deg.)	(dB)			(:1)			
	S-1	S-2	S-3			1-2	1-3	2-3	S	1	2	3
10	6.00	6.01	6.02	0.02	0.04	6.06	6.07	6.06	3.01	2.97	2.98	2.96
100	6.04	6.02	6.03	0.02	0.25	6.11	6.13	6.10	2.97	2.92	2.93	2.92
1000	6.17	5.93	6.14	0.25	1.08	8.25	8.66	8.06	2.92	2.07	1.91	2.13
5000	5.17	4.89	5.18	0.29	0.74	22.29	27.61	22.49	1.45	1.15	1.23	1.12
7500	5.19	5.11	5.19	0.09	1.14	24.06	24.22	25.49	1.14	1.08	1.29	1.05
10000	5.20	5.25	5.27	0.07	2.16	31.35	41.54	33.52	1.05	1.17	1.21	1.14
10500	5.39	5.29	5.19	0.19	2.57	23.95	27.88	26.37	1.10	1.22	1.26	1.20
11000	5.18	5.45	5.41	0.26	2.10	27.31	31.02	27.95	1.12	1.21	1.29	1.18
11500	5.28	5.20	5.25	0.08	2.51	43.25	28.59	44.16	1.10	1.14	1.29	1.12
12000	5.27	5.36	5.26	0.10	2.54	22.14	27.38	22.83	1.08	1.07	1.24	1.05
12500	5.28	5.22	5.32	0.11	3.39	33.46	25.59	32.06	1.10	1.03	1.18	1.02
13000	5.23	5.37	5.25	0.14	3.97	21.44	23.70	21.77	1.11	1.00	1.12	1.01
13500	5.36	5.45	5.40	0.09	3.01	21.48	25.07	22.03	1.08	1.06	1.09	1.05
14000	5.24	5.35	5.37	0.13	3.94	30.75	37.34	31.39	1.01	1.13	1.12	1.12
14500	5.39	5.45	5.44	0.06	2.89	31.27	33.90	32.38	1.06	1.18	1.15	1.16
15000	5.29	5.33	5.32	0.03	3.61	33.10	36.43	33.92	1.11	1.16	1.16	1.15
15500	5.42	5.52	5.40	0.12	3.96	37.74	29.47	34.88	1.12	1.09	1.14	1.08
16000	5.36	5.45	5.38	0.09	3.84	33.24	33.84	34.98	1.08	1.02	1.10	1.02
16500	5.35	5.46	5.39	0.11	3.99	34.66	33.70	37.16	1.03	1.05	1.06	1.07
17000	5.40	5.48	5.42	0.08	4.17	32.54	36.86	35.93	1.06	1.08	1.08	1.10
17500	5.42	5.51	5.43	0.09	4.11	34.28	34.58	38.48	1.11	1.11	1.14	1.11
18000	5.41	5.55	5.46	0.15	4.34	30.55	29.94	33.80	1.13	1.13	1.19	1.13
18500	5.45	5.60	5.48	0.15	4.08	28.81	38.58	31.69	1.10	1.15	1.20	1.15
19000	5.46	5.58	5.51	0.12	4.21	26.65	33.05	27.93	1.07	1.13	1.17	1.14
19500	5.45	5.59	5.48	0.14	4.66	24.24	27.86	25.30	1.07	1.09	1.12	1.10
20000	5.39	5.50	5.43	0.11	4.60	27.95	33.41	29.71	1.09	1.08	1.09	1.04
20500	5.47	5.58	5.41	0.17	5.02	57.85	32.48	40.11	1.07	1.09	1.12	1.05
21000	5.46	5.75	5.45	0.30	4.95	28.08	24.37	26.86	1.06	1.09	1.17	1.08
21500	5.47	5.59	5.58	0.13	4.08	30.39	28.88	31.00	1.10	1.09	1.21	1.11
22000	5.48	5.68	5.59	0.20	5.92	33.92	42.62	36.10	1.14	1.09	1.25	1.13
22500	5.50	5.76	5.54	0.27	4.72	25.88	30.58	26.76	1.15	1.10	1.25	1.13
23000	5.55	5.68	5.62	0.12	4.80	28.54	33.44	30.16	1.12	1.12	1.22	1.12
23500	5.60	5.68	5.57	0.11	5.17	32.99	32.04	31.54	1.08	1.15	1.18	1.10
24000	5.58	5.74	5.59	0.17	5.27	31.84	34.49	31.66	1.06	1.18	1.15	1.10
24500	5.60	5.74	5.61	0.14	4.92	35.60	43.24	37.53	1.07	1.18	1.15	1.14
25000	5.61	5.77	5.63	0.16	4.96	35.14	39.96	37.03	1.06	1.15	1.17	1.16
25500	5.60	5.73	5.59	0.14	5.00	35.62	37.38	36.90	1.03	1.12	1.17	1.17
26000	5.60	5.74	5.61	0.15	4.71	33.72	33.02	33.81	1.04	1.12	1.15	1.14
26500	5.63	5.74	5.72	0.11	4.35	30.59	39.65	33.10	1.07	1.15	1.12	1.11
27000	5.79	5.84	5.64	0.19	5.31	33.52	32.99	35.50	1.10	1.20	1.10	1.10
28000	5.61	5.85	5.74	0.24	3.80	29.71	33.75	30.86	1.16	1.17	1.12	1.10
29000	5.78	5.90	5.73	0.17	4.50	26.76	33.91	29.00	1.09	1.07	1.12	1.07
30000	5.77	5.91	5.74	0.17	4.25	32.19	26.04	29.20	1.10	1.08	1.11	1.11
31000	5.96	5.96	5.76	0.21	3.34	38.18	27.62	33.44	1.25	1.26	1.18	1.16
32000	5.77	5.94	5.90	0.17	3.66	42.06	30.60	36.84	1.15	1.23	1.26	1.18
33000	5.87	6.04	5.88	0.17	3.19	32.12	31.76	34.68	1.06	1.07	1.18	1.11
34000	5.86	5.98	5.91	0.13	2.69	31.42	42.87	35.84	1.06	1.16	1.08	1.11
35000	6.08	6.16	5.97	0.20	2.15	21.59	23.85	22.42	1.16	1.23	1.09	1.14
37500	6.14	6.22	6.03	0.19	1.73	37.80	29.95	36.16	1.25	1.13	1.11	1.11
40000	6.13	6.26	6.10	0.16	3.18	29.09	38.56	29.84	1.11	1.15	1.13	1.09
42500	6.44	6.38	6.33	0.12	4.99	31.70	32.90	31.48	1.33	1.27	1.32	1.16
43500	6.29	6.43	6.18	0.24	5.37	33.22	27.71	30.83	1.41	1.25	1.37	1.21

¹Total Loss = Insertion Loss + 4.8dB Splitter Loss



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3 Way-0° Power Splitter/Combiner

ZC3PD-K1844+

Typical Performance Data

TEST CONDITIONS: INPUT POWER = 0 dBm @Temperature = -55°C

FREQ. (MHz)	TOTAL LOSS ¹			AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION			VSWR			
	S-1	S-2	S-3			1-2	1-4	3-4	S	1	2	4
10	6.03	6.01	6.00	0.02	0.08	6.07	6.08	6.05	3.01	2.95	2.98	2.97
100	6.06	6.01	6.01	0.05	0.24	6.13	6.15	6.09	2.97	2.89	2.93	2.92
1000	6.24	5.98	6.19	0.27	1.22	8.23	8.61	8.02	2.98	2.04	1.90	2.10
5000	5.18	4.88	5.16	0.30	0.51	22.41	28.45	22.55	1.46	1.14	1.23	1.11
7500	5.19	5.08	5.16	0.11	0.89	24.22	24.12	25.41	1.15	1.07	1.30	1.05
10000	5.17	5.20	5.23	0.06	1.80	31.98	41.81	33.42	1.05	1.16	1.19	1.14
10500	5.36	5.25	5.15	0.21	2.31	24.26	27.81	26.78	1.13	1.24	1.26	1.21
11000	5.17	5.42	5.38	0.25	2.10	27.06	30.64	27.61	1.15	1.24	1.30	1.20
11500	5.25	5.18	5.21	0.08	2.03	46.32	28.81	42.79	1.11	1.17	1.29	1.13
12000	5.25	5.35	5.23	0.12	2.15	21.94	27.21	22.61	1.08	1.08	1.25	1.05
12500	5.27	5.19	5.28	0.09	2.92	32.65	25.56	31.63	1.12	1.05	1.19	1.03
13000	5.21	5.37	5.24	0.16	3.92	21.39	23.70	21.71	1.15	1.03	1.12	1.02
13500	5.34	5.42	5.37	0.09	2.67	21.24	25.02	21.76	1.12	1.03	1.07	1.03
14000	5.24	5.34	5.35	0.11	3.41	30.19	37.19	30.75	1.04	1.11	1.09	1.10
14500	5.38	5.43	5.39	0.05	2.49	31.07	33.72	31.96	1.06	1.17	1.13	1.16
15000	5.27	5.32	5.30	0.05	2.98	33.56	36.34	34.12	1.12	1.17	1.16	1.16
15500	5.39	5.50	5.37	0.13	3.52	35.99	29.27	33.83	1.13	1.12	1.15	1.10
16000	5.33	5.44	5.34	0.10	3.33	34.52	33.90	36.30	1.08	1.05	1.11	1.03
16500	5.32	5.44	5.35	0.13	3.50	35.47	33.80	38.46	1.03	1.03	1.07	1.06
17000	5.37	5.46	5.38	0.09	3.69	32.37	37.21	35.67	1.06	1.06	1.07	1.10
17500	5.39	5.50	5.40	0.11	3.62	33.71	34.91	37.85	1.10	1.08	1.12	1.11
18000	5.39	5.54	5.43	0.15	3.81	29.89	29.97	33.11	1.10	1.10	1.16	1.12
18500	5.42	5.59	5.45	0.16	3.68	28.16	37.75	30.81	1.06	1.12	1.17	1.13
19000	5.45	5.59	5.48	0.13	3.73	26.27	32.58	27.43	1.05	1.12	1.15	1.13
19500	5.45	5.56	5.45	0.11	4.11	24.03	27.46	24.96	1.06	1.13	1.13	1.10
20000	5.38	5.48	5.41	0.10	4.08	27.93	32.73	29.46	1.05	1.12	1.12	1.06
20500	5.50	5.59	5.39	0.19	4.45	48.62	32.02	38.25	1.02	1.11	1.13	1.04
21000	5.47	5.72	5.43	0.29	4.43	27.44	24.03	26.26	1.05	1.07	1.15	1.06
21500	5.47	5.59	5.53	0.12	3.55	30.19	28.32	30.47	1.09	1.04	1.17	1.09
22000	5.50	5.62	5.57	0.12	5.00	35.94	40.25	38.79	1.10	1.05	1.20	1.12
22500	5.51	5.72	5.49	0.23	4.21	26.27	31.62	27.21	1.09	1.10	1.22	1.13
23000	5.52	5.65	5.54	0.13	3.99	28.30	32.99	29.84	1.08	1.16	1.22	1.13
23500	5.59	5.65	5.53	0.12	4.41	34.29	32.89	32.68	1.07	1.20	1.19	1.11
24000	5.56	5.73	5.55	0.18	4.69	31.85	35.15	31.83	1.07	1.21	1.17	1.11
24500	5.58	5.72	5.57	0.15	4.28	34.30	41.19	36.18	1.06	1.18	1.17	1.13
25000	5.58	5.73	5.58	0.15	4.31	33.89	37.75	35.60	1.04	1.12	1.16	1.14
25500	5.58	5.70	5.55	0.14	4.38	34.99	35.60	36.00	1.00	1.06	1.13	1.13
26000	5.59	5.72	5.56	0.16	4.04	33.38	31.79	33.25	1.05	1.11	1.09	1.12
26500	5.66	5.76	5.69	0.10	3.50	31.57	41.16	34.05	1.11	1.21	1.10	1.12
27000	5.81	5.79	5.60	0.22	4.84	33.39	32.25	34.71	1.16	1.28	1.15	1.14
28000	5.56	5.84	5.71	0.28	2.91	30.37	35.39	31.86	1.18	1.20	1.16	1.10
29000	5.78	5.90	5.69	0.21	3.73	26.01	32.31	28.04	1.13	1.08	1.10	1.03
30000	5.76	5.85	5.69	0.16	3.69	32.68	26.32	29.52	1.11	1.09	1.07	1.09
31000	5.95	5.95	5.69	0.25	2.62	37.91	27.79	33.47	1.30	1.32	1.23	1.19
32000	5.70	5.87	5.82	0.17	3.06	42.51	29.88	35.58	1.18	1.27	1.30	1.20
33000	5.81	5.97	5.79	0.18	2.61	32.14	31.06	34.24	1.09	1.02	1.13	1.07
34000	5.83	5.97	5.88	0.14	1.74	31.48	39.52	35.59	1.13	1.20	1.07	1.12
35000	6.04	6.11	5.88	0.23	1.52	21.30	23.36	22.02	1.17	1.29	1.14	1.17
37500	6.12	6.22	5.94	0.27	1.15	36.32	29.47	34.72	1.22	1.18	1.15	1.13
40000	6.12	6.23	6.09	0.14	2.58	28.29	35.82	28.96	1.19	1.22	1.14	1.12
42500	6.52	6.34	6.32	0.19	4.49	31.29	31.42	30.75	1.50	1.40	1.45	1.23
43500	6.21	6.32	6.08	0.24	4.74	32.41	26.75	29.87	1.44	1.33	1.39	1.23

¹Total Loss = Insertion Loss + 4.8dB Splitter Loss



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3 Way-0° Power Splitter/Combiner

ZC3PD-K1844+

Typical Performance Data

TEST CONDITIONS: INPUT POWER = 0 dBm @Temperature = +100°C

FREQ.	TOTAL LOSS ¹			AMP. UNBAL.	PHASE UNBAL.	ISOLATION			VSWR			
(MHz)	(dB)			(dB)	(deg.)	(dB)			(:1)			
	S-1	S-2	S-3			1-2	1-4	3-4	S	1	2	4
10	6.03	6.04	6.03	0.01	0.07	6.07	6.06	6.05	2.99	2.96	2.97	2.97
100	6.05	6.03	6.04	0.02	0.26	6.11	6.13	6.09	2.96	2.91	2.93	2.92
1000	6.17	5.93	6.14	0.25	1.18	8.14	8.40	7.93	2.86	2.26	2.02	2.32
5000	5.18	4.91	5.18	0.27	0.49	22.00	28.97	22.14	1.45	1.19	1.24	1.17
7500	5.20	5.12	5.20	0.08	0.97	25.68	22.28	27.22	1.13	1.07	1.27	1.07
10000	5.20	5.26	5.27	0.07	2.04	31.39	41.49	32.39	1.05	1.18	1.19	1.16
10500	5.40	5.30	5.18	0.22	2.30	24.71	25.17	27.19	1.09	1.23	1.23	1.21
11000	5.18	5.44	5.41	0.26	1.78	27.86	34.81	28.19	1.11	1.22	1.25	1.19
11500	5.28	5.24	5.25	0.05	2.39	53.77	27.40	39.09	1.10	1.13	1.26	1.11
12000	5.28	5.39	5.26	0.13	2.40	22.37	30.20	22.93	1.07	1.04	1.24	1.03
12500	5.31	5.25	5.34	0.09	3.17	32.04	24.42	31.03	1.08	1.03	1.18	1.02
13000	5.22	5.41	5.27	0.19	3.85	21.78	24.01	22.04	1.10	1.01	1.13	1.02
13500	5.36	5.49	5.41	0.13	2.88	21.67	26.55	22.18	1.07	1.05	1.10	1.03
14000	5.27	5.39	5.36	0.13	3.72	31.05	51.65	31.52	1.02	1.12	1.11	1.11
14500	5.39	5.47	5.44	0.09	2.84	31.63	32.33	32.87	1.05	1.17	1.13	1.16
15000	5.31	5.38	5.33	0.07	3.50	33.23	35.02	33.65	1.10	1.16	1.13	1.15
15500	5.43	5.56	5.41	0.16	3.71	36.45	30.24	34.06	1.11	1.09	1.12	1.09
16000	5.38	5.50	5.40	0.12	3.69	34.60	31.02	36.58	1.08	1.03	1.09	1.03
16500	5.36	5.50	5.39	0.14	3.83	36.08	31.08	38.89	1.03	1.06	1.05	1.08
17000	5.41	5.52	5.42	0.11	4.00	33.49	33.32	36.93	1.06	1.08	1.07	1.11
17500	5.43	5.55	5.44	0.12	3.97	35.51	31.63	40.13	1.12	1.09	1.14	1.10
18000	5.42	5.60	5.46	0.18	4.14	30.74	28.40	33.71	1.14	1.12	1.19	1.11
18500	5.46	5.64	5.48	0.18	3.94	29.32	35.75	32.34	1.10	1.13	1.19	1.13
19000	5.47	5.61	5.52	0.14	4.21	27.23	35.61	28.61	1.05	1.12	1.15	1.13
19500	5.47	5.65	5.49	0.18	4.45	24.61	28.12	25.76	1.07	1.09	1.10	1.10
20000	5.41	5.56	5.45	0.14	4.36	28.52	32.86	30.50	1.10	1.08	1.07	1.05
20500	5.48	5.62	5.41	0.21	4.79	50.46	34.63	39.72	1.09	1.09	1.11	1.05
21000	5.48	5.79	5.45	0.34	4.72	27.84	25.07	26.71	1.06	1.09	1.16	1.08
21500	5.49	5.63	5.59	0.14	4.04	30.37	29.88	30.70	1.10	1.09	1.21	1.10
22000	5.49	5.73	5.59	0.24	5.83	34.30	39.26	35.66	1.15	1.09	1.25	1.12
22500	5.51	5.80	5.55	0.29	4.56	26.14	31.43	26.63	1.16	1.09	1.25	1.12
23000	5.58	5.72	5.64	0.15	4.80	29.05	34.65	30.32	1.13	1.10	1.22	1.11
23500	5.61	5.72	5.59	0.14	5.04	32.87	31.92	31.09	1.08	1.13	1.16	1.09
24000	5.59	5.78	5.60	0.19	5.10	32.46	36.16	31.65	1.07	1.18	1.14	1.10
24500	5.62	5.79	5.63	0.16	4.75	36.92	45.34	38.68	1.08	1.19	1.16	1.15
25000	5.64	5.81	5.64	0.18	4.77	36.04	40.08	38.28	1.07	1.17	1.18	1.17
25500	5.62	5.78	5.61	0.17	4.84	36.36	37.47	37.98	1.03	1.13	1.17	1.17
26000	5.62	5.79	5.62	0.17	4.53	34.08	32.85	34.32	1.03	1.11	1.14	1.14
26500	5.64	5.77	5.73	0.13	4.29	30.52	38.32	32.98	1.04	1.13	1.10	1.10
27000	5.79	5.87	5.65	0.23	5.11	33.98	33.70	36.00	1.08	1.17	1.08	1.09
28000	5.64	5.89	5.76	0.25	3.61	29.91	33.77	31.03	1.17	1.17	1.12	1.11
29000	5.82	5.95	5.74	0.21	4.30	27.29	33.99	29.59	1.09	1.09	1.12	1.07
30000	5.79	5.95	5.75	0.19	3.94	32.01	26.16	29.17	1.09	1.06	1.12	1.10
31000	5.99	6.02	5.79	0.23	3.15	37.67	27.72	33.38	1.22	1.23	1.16	1.15
32000	5.79	5.97	5.90	0.18	3.45	42.46	30.73	37.46	1.15	1.24	1.26	1.18
33000	5.89	6.07	5.88	0.19	2.92	32.17	31.81	35.10	1.04	1.07	1.18	1.11
34000	5.89	6.04	5.92	0.15	2.49	31.78	43.10	36.63	1.06	1.14	1.08	1.10
35000	6.12	6.21	5.98	0.22	1.96	21.81	23.90	22.68	1.13	1.22	1.09	1.13
37500	6.15	6.24	6.04	0.20	1.70	37.19	30.06	35.53	1.26	1.11	1.09	1.09
40000	6.17	6.33	6.13	0.20	3.47	29.10	38.21	29.65	1.09	1.15	1.15	1.10
42500	6.44	6.42	6.32	0.12	5.23	31.69	33.03	31.52	1.29	1.24	1.29	1.14
43500	6.35	6.53	6.23	0.30	5.77	33.33	28.00	31.10	1.40	1.25	1.37	1.21

¹Total Loss = Insertion Loss + 4.8dB Splitter Loss



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