

3 Way-0° Power Splitter/Combiner

ZC3PD-V24443+

Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS ¹			AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION			VSWR			
	(dB)					(dB)			(:1)			
	S-1	S-2	S-3			1-2	1-3	2-3	S	1	2	3
21000	5.51	5.64	5.54	0.14	1.01	28.80	31.55	28.30	1.09	1.13	1.21	1.17
21500	5.54	5.68	5.57	0.15	0.96	28.94	31.79	28.85	1.21	1.10	1.21	1.16
22000	5.57	5.72	5.60	0.15	0.94	29.68	32.08	30.01	1.25	1.06	1.19	1.14
22500	5.58	5.73	5.60	0.15	0.96	30.87	32.25	31.78	1.21	1.04	1.16	1.10
23000	5.57	5.72	5.59	0.15	1.00	32.98	32.69	34.67	1.14	1.06	1.15	1.06
23500	5.57	5.70	5.59	0.13	1.05	36.30	33.12	39.38	1.10	1.11	1.14	1.08
24000	5.59	5.72	5.61	0.13	1.13	41.93	33.78	43.97	1.14	1.14	1.14	1.15
24500	5.62	5.75	5.65	0.13	1.19	44.55	34.37	38.40	1.17	1.16	1.15	1.21
25000	5.63	5.77	5.67	0.14	1.15	37.93	34.79	33.80	1.15	1.15	1.17	1.23
25500	5.61	5.77	5.65	0.15	1.09	33.21	34.62	30.48	1.06	1.13	1.16	1.19
26000	5.60	5.77	5.63	0.17	1.10	30.10	33.82	28.14	1.05	1.07	1.13	1.12
26500	5.64	5.82	5.66	0.18	1.14	28.27	33.05	26.80	1.17	1.03	1.09	1.08
27000	5.67	5.85	5.69	0.19	1.25	27.29	32.39	26.16	1.21	1.05	1.06	1.05
27500	5.67	5.85	5.70	0.18	1.30	26.90	31.81	26.06	1.17	1.05	1.07	1.06
28000	5.68	5.85	5.71	0.17	1.34	27.29	31.56	26.83	1.13	1.06	1.15	1.14
28500	5.73	5.90	5.78	0.17	1.40	28.62	31.78	28.61	1.26	1.15	1.24	1.26
29000	5.79	5.97	5.84	0.18	1.52	31.13	32.28	31.82	1.37	1.21	1.28	1.32
29500	5.78	5.97	5.82	0.19	1.65	35.70	32.89	38.49	1.31	1.18	1.24	1.25
30000	5.71	5.91	5.74	0.20	1.65	43.87	33.23	47.18	1.13	1.08	1.13	1.09
30500	5.73	5.92	5.75	0.19	1.74	36.40	33.35	33.89	1.14	1.05	1.07	1.07
31000	5.81	6.00	5.84	0.19	1.85	31.27	32.86	29.51	1.28	1.16	1.13	1.18
31500	5.80	5.99	5.84	0.18	2.04	28.40	31.98	27.07	1.24	1.16	1.16	1.21
32000	5.77	5.96	5.80	0.19	2.24	26.97	31.12	25.96	1.10	1.10	1.15	1.16
32500	5.81	6.02	5.84	0.21	2.40	26.77	30.87	25.97	1.20	1.08	1.16	1.17
33000	5.89	6.11	5.91	0.22	2.40	27.04	30.63	26.48	1.34	1.14	1.15	1.20
33500	5.88	6.10	5.89	0.22	2.48	28.29	30.83	28.03	1.31	1.13	1.14	1.14
34000	5.84	6.05	5.85	0.20	2.63	30.75	31.69	30.97	1.18	1.06	1.12	1.03
34500	5.85	6.05	5.86	0.20	2.84	35.06	32.77	36.28	1.14	1.07	1.15	1.14
35000	5.87	6.08	5.89	0.21	3.10	44.78	34.64	50.79	1.16	1.12	1.17	1.19
35500	5.95	6.19	5.97	0.24	3.28	55.06	36.05	44.19	1.18	1.13	1.18	1.16
36000	5.88	6.10	5.89	0.23	3.44	37.61	37.34	34.89	1.10	1.07	1.16	1.08
36500	5.87	6.11	5.88	0.24	3.63	34.01	39.24	32.18	1.06	1.03	1.15	1.04
37000	5.88	6.14	5.90	0.25	3.77	32.66	41.07	31.20	1.07	1.06	1.15	1.08
37500	5.90	6.16	5.91	0.26	3.85	32.17	41.43	30.86	1.06	1.06	1.17	1.09
38000	5.94	6.18	5.95	0.24	3.96	32.09	41.81	30.92	1.05	1.05	1.16	1.09
38500	5.97	6.19	5.98	0.23	4.15	31.29	39.62	30.44	1.09	1.04	1.12	1.08
39000	5.96	6.18	5.97	0.22	4.51	31.56	38.53	30.88	1.11	1.04	1.06	1.08
39500	5.98	6.22	5.99	0.23	4.84	31.56	37.00	31.17	1.09	1.06	1.06	1.06
40000	5.99	6.23	5.99	0.25	5.13	32.18	36.04	32.27	1.06	1.06	1.15	1.05
40500	6.01	6.29	6.02	0.27	5.32	33.48	34.79	34.37	1.12	1.10	1.24	1.10
41000	6.07	6.36	6.09	0.29	5.36	35.38	34.22	37.68	1.20	1.11	1.28	1.15
41500	6.05	6.32	6.07	0.27	5.49	40.56	34.47	47.82	1.18	1.06	1.24	1.15
42000	6.03	6.28	6.04	0.25	5.76	50.25	35.14	41.36	1.07	1.05	1.12	1.05
42500	6.09	6.33	6.09	0.24	6.15	39.60	35.94	34.53	1.14	1.16	1.05	1.06
43000	6.14	6.38	6.14	0.24	6.55	34.06	35.99	30.88	1.23	1.23	1.14	1.16
43500	6.12	6.37	6.13	0.25	6.83	31.20	35.49	28.96	1.18	1.20	1.19	1.18
44000	6.11	6.38	6.13	0.26	7.20	29.88	34.40	28.23	1.06	1.13	1.20	1.15
44500	6.13	6.41	6.17	0.28	7.40	29.27	33.30	28.24	1.20	1.12	1.20	1.15
45000	6.19	6.47	6.22	0.27	7.63	29.92	33.12	29.45	1.28	1.16	1.17	1.17
45500	6.25	6.53	6.22	0.31	8.02	31.78	33.41	32.09	1.20	1.16	1.07	1.10
46000	6.22	6.47	6.22	0.26	8.08	33.69	33.44	35.48	1.08	1.17	1.09	1.08
46500	6.21	6.44	6.22	0.24	8.65	40.93	34.81	48.84	1.20	1.24	1.18	1.19

¹Total Loss = Insertion Loss + 4.8dB Splitter Loss



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3 Way-0° Power Splitter/Combiner

ZC3PD-V24443+

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
21000	5.49	5.61	5.53	0.12	0.09	29.36	31.89	28.92	1.09	1.10	1.20	1.16
21500	5.52	5.64	5.55	0.13	0.16	29.61	32.25	29.54	1.19	1.07	1.20	1.14
22000	5.55	5.68	5.58	0.13	0.21	30.36	32.55	30.69	1.22	1.05	1.19	1.12
22500	5.56	5.68	5.58	0.12	0.22	31.61	32.76	32.51	1.19	1.06	1.17	1.09
23000	5.56	5.68	5.57	0.12	0.23	33.58	33.12	35.15	1.13	1.09	1.14	1.06
23500	5.55	5.67	5.57	0.11	0.20	36.79	33.62	39.31	1.09	1.10	1.13	1.08
24000	5.57	5.68	5.59	0.11	0.11	41.31	34.29	42.14	1.11	1.11	1.13	1.14
24500	5.60	5.71	5.63	0.11	0.04	42.90	34.86	38.05	1.15	1.12	1.15	1.20
25000	5.61	5.74	5.65	0.12	0.11	37.95	35.21	33.98	1.13	1.14	1.17	1.21
25500	5.60	5.73	5.63	0.13	0.27	33.49	35.17	30.76	1.06	1.14	1.17	1.18
26000	5.60	5.73	5.61	0.14	0.35	30.44	34.41	28.46	1.04	1.10	1.14	1.12
26500	5.62	5.78	5.64	0.15	0.32	28.70	33.72	27.18	1.15	1.04	1.10	1.07
27000	5.66	5.81	5.67	0.16	0.23	27.68	33.04	26.49	1.20	1.05	1.07	1.04
27500	5.66	5.81	5.68	0.15	0.27	27.23	32.32	26.36	1.16	1.04	1.07	1.05
28000	5.66	5.81	5.69	0.15	0.29	27.63	32.06	27.14	1.12	1.04	1.15	1.14
28500	5.72	5.87	5.76	0.15	0.47	29.02	32.38	28.91	1.24	1.12	1.23	1.25
29000	5.78	5.93	5.81	0.16	0.67	31.58	32.87	32.19	1.33	1.18	1.28	1.29
29500	5.76	5.93	5.79	0.17	0.75	36.40	33.49	38.91	1.27	1.17	1.24	1.22
30000	5.71	5.87	5.72	0.16	0.77	46.25	34.03	46.20	1.10	1.08	1.13	1.07
30500	5.73	5.89	5.74	0.16	0.79	36.65	34.08	34.00	1.13	1.04	1.07	1.08
31000	5.79	5.95	5.81	0.16	0.84	31.35	33.46	29.62	1.24	1.12	1.14	1.18
31500	5.79	5.95	5.82	0.17	1.06	28.72	32.64	27.35	1.19	1.12	1.16	1.18
32000	5.77	5.95	5.81	0.18	1.26	27.34	31.76	26.30	1.09	1.06	1.16	1.15
32500	5.82	6.01	5.84	0.20	1.36	27.13	31.48	26.30	1.21	1.05	1.16	1.15
33000	5.88	6.07	5.89	0.19	1.35	27.49	31.30	26.89	1.30	1.09	1.15	1.17
33500	5.88	6.06	5.89	0.18	1.38	28.85	31.62	28.55	1.26	1.08	1.13	1.10
34000	5.86	6.03	5.87	0.17	1.54	31.44	32.64	31.53	1.14	1.02	1.12	1.03
34500	5.87	6.04	5.89	0.17	1.73	35.64	33.98	36.52	1.11	1.04	1.15	1.13
35000	5.90	6.08	5.92	0.18	1.99	43.96	36.03	45.62	1.13	1.07	1.16	1.17
35500	5.93	6.12	5.94	0.19	2.06	52.70	36.83	43.81	1.11	1.06	1.16	1.12
36000	5.92	6.11	5.92	0.20	2.25	38.81	39.05	36.07	1.07	1.07	1.15	1.05
36500	5.93	6.14	5.93	0.21	2.35	35.21	41.37	33.24	1.06	1.09	1.18	1.05
37000	5.95	6.16	5.94	0.22	2.42	34.04	43.59	32.37	1.03	1.09	1.19	1.10
37500	5.98	6.20	5.98	0.22	2.50	33.01	42.70	31.41	1.03	1.07	1.19	1.11
38000	6.00	6.21	6.01	0.21	2.65	32.16	41.54	30.76	1.06	1.01	1.15	1.09
38500	6.03	6.22	6.03	0.19	2.85	30.86	38.70	29.87	1.09	1.06	1.09	1.08
39000	6.06	6.25	6.06	0.19	3.16	30.62	37.14	29.84	1.09	1.10	1.02	1.08
39500	6.08	6.27	6.07	0.21	3.40	30.28	35.14	29.89	1.08	1.11	1.07	1.08
40000	6.09	6.30	6.08	0.22	3.58	30.64	33.67	30.84	1.00	1.11	1.17	1.07
40500	6.14	6.37	6.14	0.23	3.73	31.92	32.72	33.01	1.10	1.15	1.26	1.13
41000	6.20	6.43	6.21	0.23	3.77	34.09	32.35	37.10	1.18	1.16	1.30	1.19
41500	6.17	6.39	6.18	0.22	4.02	38.18	32.36	48.76	1.15	1.11	1.24	1.17
42000	6.17	6.37	6.16	0.21	4.26	41.06	32.72	39.76	1.02	1.06	1.10	1.05
42500	6.23	6.43	6.23	0.20	4.55	36.42	33.37	33.08	1.12	1.18	1.07	1.09
43000	6.31	6.51	6.30	0.21	4.80	32.13	33.40	29.61	1.19	1.26	1.17	1.19
43500	6.28	6.49	6.28	0.21	5.10	29.94	33.19	27.98	1.12	1.21	1.20	1.19
44000	6.25	6.48	6.26	0.23	5.38	28.37	31.97	27.03	1.04	1.12	1.19	1.14
44500	6.30	6.54	6.32	0.24	5.65	28.02	31.36	27.19	1.20	1.11	1.20	1.15
45000	6.38	6.61	6.39	0.24	5.91	28.57	31.16	28.28	1.23	1.15	1.17	1.17
45500	6.43	6.67	6.40	0.27	6.33	30.25	31.53	30.73	1.12	1.14	1.08	1.10
46000	6.34	6.54	6.34	0.21	6.21	32.36	31.52	34.56	1.07	1.13	1.09	1.07
46500	6.37	6.57	6.38	0.21	6.68	37.38	32.52	45.98	1.19	1.19	1.19	1.19

¹Total Loss = Insertion Loss + 4.8dB Splitter Loss



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3 Way-0° Power Splitter/Combiner

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Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS ¹			AMP. UNBAL.	PHASE UNBAL.	ISOLATION			VSWR			
	(dB)			(dB)	(deg.)	(dB)			(:1)			
	S-1	S-2	S-3			1-2	1-4	3-4	S	1	2	4
21000	5.55	5.72	5.60	0.17	0.75	28.68	31.17	28.18	1.09	1.14	1.21	1.18
21500	5.58	5.77	5.63	0.18	0.71	28.79	31.40	28.71	1.21	1.10	1.22	1.17
22000	5.62	5.81	5.66	0.19	0.66	29.52	31.67	29.86	1.26	1.06	1.19	1.15
22500	5.62	5.81	5.65	0.19	0.65	30.71	31.85	31.62	1.21	1.04	1.16	1.10
23000	5.62	5.81	5.65	0.18	0.69	32.92	32.33	34.69	1.14	1.06	1.14	1.05
23500	5.62	5.79	5.64	0.17	0.73	36.36	32.84	39.57	1.11	1.11	1.14	1.08
24000	5.65	5.81	5.68	0.16	0.82	42.28	33.53	44.43	1.15	1.14	1.14	1.16
24500	5.67	5.83	5.71	0.16	0.87	44.48	34.19	38.32	1.17	1.15	1.15	1.22
25000	5.68	5.85	5.74	0.17	1.00	37.71	34.69	33.71	1.14	1.16	1.16	1.24
25500	5.66	5.85	5.72	0.18	1.09	33.26	34.70	30.58	1.06	1.13	1.15	1.20
26000	5.66	5.86	5.70	0.20	1.15	30.23	33.99	28.28	1.05	1.07	1.13	1.13
26500	5.69	5.91	5.72	0.22	1.19	28.41	33.23	26.94	1.16	1.03	1.09	1.08
27000	5.72	5.94	5.75	0.22	1.17	27.39	32.54	26.25	1.21	1.05	1.07	1.06
27500	5.74	5.94	5.77	0.21	1.19	26.96	32.00	26.10	1.17	1.05	1.08	1.06
28000	5.73	5.93	5.78	0.20	1.28	27.25	31.67	26.72	1.12	1.06	1.14	1.14
28500	5.79	5.99	5.85	0.20	1.45	28.42	31.78	28.35	1.25	1.14	1.23	1.26
29000	5.86	6.06	5.92	0.21	1.59	30.77	32.23	31.39	1.36	1.21	1.27	1.33
29500	5.85	6.07	5.89	0.22	1.71	35.16	33.04	37.49	1.31	1.19	1.24	1.28
30000	5.78	6.01	5.82	0.23	1.73	43.31	33.28	51.69	1.14	1.09	1.14	1.11
30500	5.79	6.01	5.81	0.22	1.81	36.90	33.29	34.45	1.13	1.05	1.08	1.08
31000	5.88	6.10	5.91	0.22	1.91	31.66	33.09	29.87	1.27	1.15	1.13	1.20
31500	5.87	6.09	5.92	0.21	2.07	28.55	32.09	27.21	1.25	1.17	1.16	1.23
32000	5.83	6.05	5.89	0.22	2.30	27.00	31.14	25.98	1.11	1.11	1.15	1.19
32500	5.87	6.11	5.92	0.24	2.49	26.72	30.87	25.93	1.19	1.08	1.15	1.20
33000	5.96	6.21	6.00	0.25	2.49	26.89	30.56	26.34	1.34	1.13	1.15	1.22
33500	5.95	6.20	5.98	0.25	2.58	28.08	30.68	27.85	1.33	1.14	1.13	1.17
34000	5.91	6.15	5.93	0.24	2.72	30.53	31.56	30.72	1.19	1.07	1.12	1.05
34500	5.91	6.15	5.94	0.24	2.90	34.71	32.83	35.87	1.12	1.05	1.15	1.12
35000	5.95	6.18	5.97	0.24	3.19	43.24	34.34	48.60	1.18	1.12	1.17	1.20
35500	6.00	6.26	6.02	0.25	3.44	52.30	36.45	43.35	1.17	1.12	1.17	1.17
36000	5.95	6.21	5.97	0.25	3.57	38.34	37.41	35.42	1.11	1.08	1.16	1.10
36500	5.95	6.21	5.96	0.27	3.76	34.25	39.38	32.43	1.06	1.03	1.14	1.04
37000	5.96	6.24	5.97	0.28	3.91	32.69	40.83	31.21	1.08	1.05	1.16	1.07
37500	5.98	6.27	5.99	0.29	3.97	32.27	41.58	30.96	1.07	1.06	1.17	1.08
38000	6.03	6.31	6.04	0.28	4.09	32.09	41.69	30.87	1.05	1.06	1.16	1.07
38500	6.06	6.33	6.06	0.27	4.25	31.50	40.10	30.56	1.08	1.04	1.13	1.06
39000	6.04	6.29	6.05	0.25	4.59	31.44	38.44	30.82	1.10	1.04	1.08	1.05
39500	6.06	6.33	6.07	0.26	4.93	31.64	37.24	31.24	1.09	1.05	1.05	1.05
40000	6.07	6.34	6.07	0.28	5.23	32.15	36.07	32.22	1.06	1.07	1.13	1.02
40500	6.09	6.39	6.10	0.30	5.47	33.37	34.92	34.12	1.11	1.09	1.22	1.08
41000	6.15	6.47	6.16	0.32	5.59	35.38	34.60	37.11	1.17	1.11	1.27	1.12
41500	6.14	6.45	6.15	0.31	5.61	39.96	34.76	45.48	1.17	1.08	1.24	1.12
42000	6.12	6.40	6.13	0.29	5.87	51.68	35.31	42.42	1.08	1.04	1.14	1.05
42500	6.16	6.43	6.16	0.27	6.23	40.92	36.40	35.26	1.12	1.15	1.05	1.05
43000	6.22	6.48	6.22	0.26	6.66	34.81	36.46	31.36	1.21	1.22	1.13	1.15
43500	6.21	6.48	6.22	0.27	7.00	31.60	35.93	29.28	1.18	1.21	1.17	1.16
44000	6.20	6.49	6.21	0.29	7.38	30.26	34.91	28.49	1.06	1.14	1.19	1.15
44500	6.22	6.53	6.25	0.31	7.59	29.52	33.73	28.34	1.18	1.12	1.18	1.15
45000	6.28	6.59	6.30	0.31	7.81	29.95	33.31	29.33	1.27	1.16	1.16	1.17
45500	6.32	6.64	6.30	0.34	8.19	31.58	33.49	31.72	1.20	1.17	1.08	1.11
46000	6.33	6.63	6.32	0.31	8.28	33.24	33.70	34.55	1.08	1.17	1.08	1.08
46500	6.30	6.56	6.31	0.27	8.78	39.55	34.57	46.24	1.19	1.24	1.17	1.20

¹Total Loss = Insertion Loss + 4.8dB Splitter Loss



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