

4 Way-0° Power Splitter/Combiner

ZC4PD-V18443+

Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS ¹ (dB)				AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB)			VSWR (:1)				
	S-1	S-2	S-3	S-4			1-2	1-4	3-4	S	1	2	3	4
18000	7.04	7.14	7.15	7.20	0.05	0.35	31.92	30.23	32.14	1.18	1.25	1.21	1.18	1.18
19000	7.05	7.13	7.18	7.22	0.04	0.36	26.70	32.74	28.34	1.03	1.01	1.03	1.03	1.04
20000	7.10	7.19	7.21	7.27	0.03	0.48	26.69	34.34	27.73	1.09	1.09	1.08	1.08	1.09
21000	7.15	7.25	7.27	7.31	0.06	0.40	26.45	33.89	25.66	1.22	1.19	1.15	1.12	1.11
22000	7.18	7.27	7.35	7.40	0.07	0.47	27.32	31.97	25.22	1.15	1.17	1.12	1.10	1.07
23000	7.25	7.34	7.35	7.41	0.03	0.52	29.66	30.03	28.25	1.19	1.04	1.07	1.08	1.10
24000	7.22	7.37	7.33	7.39	0.05	0.67	25.70	29.42	26.28	1.04	1.24	1.25	1.22	1.24
25000	7.27	7.41	7.47	7.53	0.05	0.50	23.92	30.03	23.49	1.18	1.24	1.26	1.21	1.22
26000	7.39	7.49	7.47	7.52	0.06	0.72	28.37	31.68	26.86	1.14	1.31	1.34	1.29	1.29
27000	7.38	7.49	7.52	7.57	0.04	0.54	56.22	33.97	42.31	1.22	1.11	1.17	1.16	1.15
28000	7.40	7.48	7.54	7.59	0.05	0.43	32.29	36.82	35.63	1.14	1.13	1.11	1.18	1.16
29000	7.45	7.51	7.56	7.62	0.05	0.73	27.55	38.10	28.07	1.14	1.08	1.07	1.17	1.14
30000	7.49	7.58	7.56	7.61	0.12	0.60	26.16	36.83	25.78	1.20	1.08	1.09	1.12	1.11
31000	7.43	7.55	7.65	7.71	0.08	0.52	29.14	35.09	28.29	1.09	1.11	1.06	1.09	1.08
32000	7.53	7.63	7.66	7.71	0.04	0.51	39.60	33.77	37.10	1.14	1.09	1.12	1.10	1.10
33000	7.52	7.64	7.67	7.74	0.06	1.23	26.85	33.14	26.77	1.05	1.09	1.16	1.12	1.18
34000	7.61	7.67	7.69	7.76	0.05	0.75	25.84	32.92	26.49	1.09	1.07	1.12	1.07	1.12
35000	7.72	7.72	7.77	7.84	0.07	0.85	28.87	33.44	30.70	1.17	1.17	1.18	1.11	1.19
36000	7.76	7.76	7.82	7.88	0.04	0.53	39.66	34.51	36.76	1.17	1.14	1.10	1.06	1.13
37000	7.83	7.83	7.86	7.92	0.04	0.67	30.01	36.48	34.57	1.19	1.20	1.16	1.13	1.18
38000	7.91	7.91	7.97	8.04	0.09	0.82	24.07	38.00	26.97	1.29	1.26	1.19	1.18	1.20
39000	7.92	7.83	7.93	7.99	0.04	0.60	26.52	36.00	26.11	1.13	1.18	1.10	1.09	1.09
40000	7.94	7.86	7.95	8.00	0.08	0.91	37.70	33.30	36.63	1.05	1.15	1.10	1.13	1.11
41000	8.00	7.94	8.03	8.09	0.07	0.97	32.65	32.24	34.97	1.23	1.09	1.06	1.03	1.06
42000	8.02	7.93	8.05	8.13	0.08	0.93	30.80	32.45	31.85	1.10	1.13	1.13	1.10	1.16
43000	8.11	7.99	8.08	8.17	0.09	1.34	29.12	33.69	29.53	1.17	1.06	1.10	1.05	1.13
44000	8.16	8.08	8.20	8.29	0.14	1.32	31.90	36.98	34.13	1.23	1.17	1.24	1.18	1.26
45000	8.16	8.05	8.14	8.23	0.22	1.55	31.43	42.62	29.41	1.04	1.08	1.15	1.11	1.15
46000	8.29	8.17	8.32	8.41	0.28	1.59	31.91	58.17	29.43	1.29	1.23	1.29	1.26	1.29
47000	8.26	8.14	8.22	8.30	0.42	1.29	27.22	47.61	28.71	1.11	1.15	1.13	1.11	1.09
48000	8.27	8.14	8.31	8.38	0.45	1.22	27.24	41.80	28.31	1.09	1.11	1.07	1.03	1.02
49000	8.35	8.22	8.34	8.41	0.52	1.59	42.60	38.26	40.66	1.01	1.17	1.09	1.13	1.10
50000	8.39	8.25	8.41	8.56	0.45	1.86	29.78	35.94	31.42	1.03	1.05	1.07	1.04	1.06

¹Total Loss = Insertion Loss + 6dB Splitter Loss



4 Way-0° Power Splitter/Combiner

ZC4PD-V18443+

Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS ¹ (dB)				AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB)			VSWR (:1)				
	S-1	S-2	S-3	S-4			1-2	1-4	3-4	S	1	2	3	4
18000	7.00	7.13	7.16	7.00	0.04	1.61	29.14	29.10	29.25	1.17	1.26	1.22	1.22	1.23
19000	7.01	7.13	7.16	7.00	0.06	1.64	24.46	30.91	25.65	1.03	1.01	1.04	1.02	1.01
20000	7.06	7.18	7.19	7.06	0.07	1.94	25.46	32.41	26.08	1.08	1.11	1.09	1.09	1.10
21000	7.12	7.23	7.24	7.09	0.06	1.81	26.31	32.07	25.47	1.23	1.21	1.16	1.15	1.15
22000	7.13	7.23	7.31	7.17	0.12	1.96	26.83	30.87	24.91	1.13	1.16	1.13	1.11	1.08
23000	7.18	7.30	7.31	7.18	0.06	2.17	28.14	29.32	27.37	1.19	1.06	1.06	1.10	1.13
24000	7.20	7.32	7.25	7.14	0.06	2.35	24.31	28.60	24.58	1.04	1.23	1.24	1.21	1.22
25000	7.23	7.36	7.40	7.29	0.10	2.05	23.04	29.12	22.46	1.17	1.23	1.27	1.21	1.20
26000	7.33	7.44	7.40	7.28	0.06	2.51	28.71	30.57	26.89	1.15	1.34	1.37	1.32	1.31
27000	7.32	7.40	7.42	7.32	0.04	2.52	40.19	32.50	43.59	1.20	1.08	1.14	1.15	1.15
28000	7.34	7.41	7.45	7.34	0.05	2.30	29.17	34.79	31.21	1.15	1.08	1.09	1.18	1.16
29000	7.39	7.42	7.46	7.41	0.06	2.73	26.36	36.11	26.36	1.13	1.09	1.04	1.14	1.13
30000	7.41	7.48	7.43	7.35	0.09	2.49	26.01	34.71	25.37	1.21	1.14	1.09	1.10	1.11
31000	7.36	7.44	7.52	7.46	0.10	2.47	30.58	33.01	29.06	1.07	1.13	1.07	1.08	1.06
32000	7.44	7.51	7.56	7.50	0.06	2.66	33.12	31.50	32.22	1.15	1.07	1.13	1.15	1.14
33000	7.44	7.50	7.50	7.48	0.06	3.38	25.65	31.02	25.44	1.06	1.12	1.13	1.04	1.08
34000	7.51	7.52	7.53	7.52	0.08	2.62	24.90	31.07	25.62	1.10	1.08	1.11	1.01	1.08
35000	7.64	7.58	7.62	7.60	0.11	3.16	28.75	32.55	30.14	1.18	1.17	1.18	1.13	1.21
36000	7.66	7.58	7.63	7.67	0.12	3.10	42.59	34.10	41.98	1.12	1.10	1.09	1.10	1.17
37000	7.71	7.67	7.68	7.65	0.08	3.33	27.41	35.89	32.86	1.19	1.18	1.17	1.18	1.24
38000	7.86	7.71	7.76	7.88	0.12	3.08	23.36	36.56	25.63	1.26	1.23	1.18	1.17	1.21
39000	7.80	7.64	7.70	7.65	0.13	3.51	26.88	34.95	26.15	1.14	1.20	1.14	1.10	1.11
40000	7.79	7.64	7.71	7.83	0.13	3.24	35.01	32.35	38.69	1.04	1.12	1.09	1.11	1.08
41000	7.93	7.74	7.79	7.92	0.13	3.59	30.78	31.08	31.70	1.23	1.06	1.06	1.02	1.04
42000	7.81	7.71	7.82	7.86	0.18	3.51	29.63	31.09	30.50	1.13	1.10	1.11	1.05	1.08
43000	7.96	7.77	7.81	7.90	0.14	3.89	28.48	31.75	29.07	1.17	1.02	1.10	1.01	1.06
44000	8.04	7.84	7.95	8.02	0.18	3.93	31.30	34.32	32.91	1.27	1.12	1.19	1.14	1.19
45000	8.00	7.79	7.88	7.97	0.16	4.14	31.47	38.41	28.60	1.08	1.07	1.12	1.10	1.12
46000	8.15	7.94	8.06	8.17	0.20	4.40	29.50	44.37	28.87	1.35	1.29	1.28	1.27	1.31
47000	8.11	7.86	7.93	8.06	0.18	4.52	26.64	40.25	28.18	1.02	1.18	1.12	1.07	1.07
48000	8.12	7.89	7.99	8.16	0.21	4.79	27.98	39.40	28.63	1.05	1.15	1.09	1.01	1.03
49000	8.20	7.94	8.05	8.17	0.18	4.73	48.45	40.37	43.45	1.06	1.11	1.11	1.17	1.21
50000	8.22	7.96	8.07	8.24	0.18	5.23	27.47	36.34	28.90	1.02	1.05	1.08	1.10	1.14

¹Total Loss = Insertion Loss + 6dB Splitter Loss



4 Way-0° Power Splitter/Combiner

ZC4PD-V18443+

Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS ¹ (dB)				AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB)			VSWR (:1)				
	S-1	S-2	S-3	S-4			1-2	1-4	3-4	S	1	2	3	4
18000	7.23	7.27	7.26	7.03	0.05	1.56	29.25	29.76	29.46	1.19	1.28	1.26	1.24	1.24
19000	7.22	7.26	7.28	7.05	0.04	1.53	24.57	32.16	25.81	1.04	1.03	1.06	1.04	1.04
20000	7.28	7.33	7.32	7.11	0.04	1.71	24.67	33.44	25.42	1.11	1.12	1.09	1.11	1.12
21000	7.35	7.39	7.38	7.14	0.05	1.66	25.46	32.92	24.93	1.24	1.22	1.18	1.18	1.18
22000	7.37	7.41	7.46	7.23	0.08	1.75	25.18	31.36	23.91	1.14	1.16	1.14	1.12	1.08
23000	7.43	7.50	7.46	7.26	0.03	1.95	27.14	29.69	25.99	1.20	1.06	1.04	1.08	1.12
24000	7.42	7.53	7.43	7.21	0.05	2.17	24.79	29.09	25.38	1.04	1.26	1.26	1.27	1.30
25000	7.48	7.61	7.58	7.34	0.05	2.06	22.61	29.71	22.27	1.19	1.22	1.30	1.25	1.24
26000	7.60	7.67	7.59	7.39	0.07	2.45	26.25	31.24	25.03	1.14	1.31	1.38	1.30	1.28
27000	7.65	7.67	7.62	7.40	0.04	2.33	42.88	33.23	37.07	1.22	1.11	1.17	1.14	1.14
28000	7.68	7.67	7.65	7.43	0.05	2.35	30.53	35.71	33.12	1.13	1.10	1.12	1.16	1.14
29000	7.69	7.69	7.69	7.49	0.06	2.61	26.30	36.52	26.57	1.16	1.11	1.09	1.14	1.14
30000	7.70	7.73	7.66	7.43	0.12	2.46	25.64	35.32	25.27	1.19	1.14	1.10	1.09	1.11
31000	7.68	7.71	7.78	7.56	0.07	2.45	27.62	34.06	26.94	1.09	1.08	1.05	1.09	1.08
32000	7.76	7.77	7.79	7.60	0.05	2.57	36.39	33.31	34.11	1.14	1.12	1.12	1.11	1.09
33000	7.73	7.75	7.79	7.59	0.05	3.22	26.69	33.06	26.68	1.06	1.12	1.18	1.12	1.19
34000	7.81	7.81	7.80	7.58	0.06	2.90	24.63	33.20	25.19	1.09	1.06	1.13	1.06	1.13
35000	7.89	7.83	7.92	7.74	0.08	3.11	27.09	33.79	28.78	1.18	1.14	1.19	1.13	1.21
36000	7.93	7.85	7.94	7.75	0.08	2.98	35.40	35.03	35.84	1.15	1.14	1.09	1.08	1.16
37000	7.99	7.91	7.99	7.78	0.08	3.30	30.85	36.90	37.88	1.17	1.16	1.14	1.15	1.21
38000	8.13	8.00	8.10	7.91	0.09	3.09	23.95	38.19	26.92	1.29	1.27	1.17	1.17	1.22
39000	8.03	7.91	8.05	7.86	0.11	3.33	25.26	35.92	25.56	1.10	1.17	1.07	1.06	1.08
40000	8.08	7.96	8.08	7.91	0.12	3.23	33.78	33.24	33.09	1.07	1.16	1.11	1.12	1.07
41000	8.17	8.03	8.18	7.98	0.11	3.52	32.51	32.06	34.94	1.25	1.07	1.04	1.02	1.05
42000	8.16	8.03	8.20	8.00	0.11	3.40	31.19	32.23	32.35	1.09	1.14	1.14	1.10	1.16
43000	8.24	8.10	8.25	8.07	0.10	3.78	28.14	33.55	28.72	1.20	1.06	1.09	1.07	1.12
44000	8.33	8.18	8.38	8.14	0.10	3.64	30.45	36.99	32.41	1.26	1.18	1.25	1.21	1.26
45000	8.29	8.14	8.32	8.12	0.10	3.86	32.32	44.24	30.13	1.05	1.08	1.14	1.12	1.14
46000	8.41	8.25	8.48	8.29	0.12	3.98	33.33	56.93	30.41	1.26	1.23	1.26	1.26	1.28
47000	8.40	8.24	8.41	8.21	0.13	4.22	27.70	43.87	29.33	1.10	1.16	1.14	1.09	1.10
48000	8.42	8.24	8.49	8.27	0.15	4.27	26.72	39.88	27.97	1.04	1.09	1.06	1.04	1.03
49000	8.53	8.33	8.54	8.30	0.14	4.34	35.47	37.57	35.98	1.03	1.16	1.11	1.14	1.12
50000	8.60	8.41	8.75	8.39	0.12	4.72	31.91	35.76	33.54	1.05	1.06	1.06	1.08	1.04

¹Total Loss = Insertion Loss + 6dB Splitter Loss

