

2 Way-0° Power Splitter/Combiner

ZC2PD-V254+

Typical Performance Data

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

FREQUENCY (MHz)	TOTAL LOSS ¹ (dB)		AMPLITUDE UNBALANCE (dB)	ISOLATION (dB) 1-2	PHASE UNBALANCE (Deg)	FREQUENCY (MHz)	VSWR (:1)		
	S-1	S-2					S	1	2
500	3.55	3.55	0.00	4.68	0.15	500	1.88	1.87	1.89
700	3.57	3.56	0.01	5.87	0.24	700	1.83	1.82	1.84
1000	3.55	3.52	0.03	8.66	0.31	1000	1.74	1.73	1.76
2000	3.26	3.20	0.06	28.15	0.14	2000	1.29	1.24	1.24
3000	3.29	3.23	0.06	33.09	0.08	3000	1.13	1.09	1.11
4000	3.28	3.23	0.04	22.30	0.03	4000	1.07	1.18	1.18
5000	3.42	3.38	0.03	23.09	0.26	5000	1.25	1.40	1.42
6000	3.43	3.34	0.08	25.41	0.24	6000	1.17	1.12	1.13
7000	3.50	3.41	0.09	25.92	0.07	7000	1.21	1.30	1.27
8000	3.50	3.42	0.08	27.36	0.06	8000	1.11	1.21	1.17
9000	3.51	3.46	0.06	31.18	0.06	9000	1.12	1.07	1.12
10000	3.52	3.47	0.05	23.69	0.07	10000	1.09	1.07	1.10
11000	3.64	3.56	0.08	21.78	0.12	11000	1.26	1.06	1.06
12000	3.57	3.48	0.08	22.30	0.02	12000	1.08	1.14	1.10
13000	3.73	3.66	0.08	29.93	0.06	13000	1.31	1.22	1.19
14000	3.68	3.60	0.08	26.87	0.13	14000	1.04	1.19	1.20
15000	3.82	3.76	0.05	26.05	0.08	15000	1.44	1.38	1.44
16000	3.69	3.63	0.06	40.12	0.02	16000	1.16	1.10	1.16
17000	3.82	3.76	0.06	31.41	0.01	17000	1.37	1.27	1.32
18000	3.71	3.65	0.06	35.55	0.14	18000	1.08	1.09	1.14
19000	3.83	3.74	0.09	27.47	0.08	19000	1.32	1.06	1.07
20000	3.75	3.67	0.09	22.83	0.03	20000	1.05	1.07	1.06
21000	3.82	3.72	0.10	21.93	0.02	21000	1.08	1.12	1.10
22000	3.85	3.76	0.09	23.64	0.01	22000	1.22	1.11	1.08
23000	3.86	3.76	0.10	30.89	0.01	23000	1.06	1.11	1.10
24000	3.91	3.80	0.11	31.84	0.06	24000	1.08	1.19	1.18
25000	3.92	3.81	0.11	27.25	0.11	25000	1.12	1.07	1.08
26000	3.94	3.84	0.11	29.15	0.15	26000	1.15	1.11	1.10
27000	3.97	3.88	0.10	24.10	0.16	27000	1.19	1.13	1.16
28000	3.99	3.89	0.10	26.38	0.06	28000	1.06	1.05	1.12
29000	4.03	3.92	0.12	34.90	0.10	29000	1.14	1.10	1.11
30000	4.04	3.92	0.11	28.38	0.14	30000	1.13	1.08	1.12
31000	4.10	3.98	0.12	24.66	0.12	31000	1.18	1.05	1.05
32000	4.08	3.96	0.12	29.14	0.18	32000	1.10	1.03	1.02
33000	4.10	3.97	0.13	40.75	0.14	33000	1.05	1.07	1.11
34000	4.17	4.03	0.14	28.92	0.28	34000	1.12	1.17	1.08
35000	4.14	4.01	0.14	24.36	0.31	35000	1.08	1.16	1.12
36000	4.13	4.00	0.13	29.80	0.34	36000	1.10	1.13	1.12
37000	4.19	4.08	0.11	27.45	0.29	37000	1.21	1.11	1.18
38000	4.12	4.01	0.12	27.05	0.18	38000	1.16	1.11	1.01
40000	4.15	4.03	0.12	35.73	0.06	40000	1.12	1.12	1.17
42000	4.19	4.05	0.15	25.86	0.21	42000	1.16	1.07	1.06
44000	4.26	4.11	0.15	25.24	0.18	44000	1.05	1.04	1.06
46000	4.38	4.21	0.16	30.45	0.19	46000	1.15	1.07	1.06
50000	4.67	4.48	0.19	35.89	0.19	50000	1.07	1.10	1.08
52000	4.87	4.66	0.21	33.23	0.13	52000	1.09	1.25	1.14

¹Total Loss = Insertion Loss + 3dB Splitter Loss



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Page 1 of 3

2 Way-0° Power Splitter/Combiner

ZC2PD-V254+

Typical Performance Data

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

FREQUENCY (MHz)	TOTAL LOSS ¹ (dB)		AMPLITUDE UNBALANCE (dB)	ISOLATION (dB) 1-2	PHASE UNBALANCE (Deg)	FREQUENCY (MHz)	VSWR (:1)		
	S-1	S-2					S	1	2
500	3.72	3.53	0.19	4.69	0.95	500	1.86	1.83	1.86
700	3.71	3.60	0.11	5.85	0.67	700	1.82	1.83	1.83
1000	3.69	3.60	0.09	8.58	0.12	1000	1.75	1.76	1.74
2000	3.46	3.21	0.25	27.45	0.01	2000	1.30	1.17	1.22
3000	3.49	3.26	0.23	33.22	0.29	3000	1.17	1.05	1.12
4000	3.45	3.26	0.19	22.52	0.28	4000	1.08	1.20	1.15
5000	3.60	3.38	0.22	23.23	0.29	5000	1.25	1.31	1.40
6000	3.59	3.38	0.21	25.58	0.32	6000	1.19	1.15	1.14
7000	3.69	3.44	0.25	26.16	0.52	7000	1.23	1.25	1.28
8000	3.66	3.45	0.22	28.34	0.86	8000	1.14	1.21	1.19
9000	3.67	3.48	0.19	33.52	0.80	9000	1.14	1.06	1.12
10000	3.68	3.49	0.18	23.49	0.81	10000	1.15	1.06	1.11
11000	3.78	3.60	0.18	21.77	0.74	11000	1.28	1.06	1.07
12000	3.69	3.49	0.20	23.15	0.86	12000	1.04	1.11	1.08
13000	3.85	3.68	0.18	29.02	1.00	13000	1.30	1.19	1.18
14000	3.80	3.61	0.18	26.11	1.02	14000	1.05	1.17	1.17
15000	3.95	3.78	0.16	25.79	1.10	15000	1.45	1.36	1.43
16000	3.81	3.66	0.15	41.79	1.05	16000	1.20	1.10	1.18
17000	3.93	3.77	0.15	31.96	1.07	17000	1.37	1.24	1.31
18000	3.84	3.69	0.15	38.56	1.04	18000	1.14	1.10	1.18
19000	3.92	3.75	0.17	28.20	1.01	19000	1.29	1.03	1.04
20000	3.85	3.69	0.17	22.83	1.20	20000	1.12	1.05	1.08
21000	3.92	3.76	0.16	22.91	1.24	21000	1.08	1.13	1.11
22000	3.90	3.75	0.16	24.89	1.27	22000	1.14	1.11	1.06
23000	3.94	3.78	0.16	29.11	1.35	23000	1.09	1.12	1.11
24000	3.97	3.81	0.15	31.32	1.36	24000	1.05	1.19	1.18
25000	3.99	3.84	0.15	27.89	1.43	25000	1.10	1.10	1.10
26000	4.00	3.86	0.14	30.65	1.44	26000	1.11	1.10	1.08
27000	4.04	3.91	0.13	24.38	1.47	27000	1.20	1.14	1.14
28000	4.06	3.93	0.13	27.00	1.35	28000	1.06	1.07	1.16
29000	4.06	3.92	0.14	32.13	1.37	29000	1.08	1.05	1.08
30000	4.14	3.99	0.14	27.74	1.42	30000	1.23	1.10	1.16
31000	4.16	4.00	0.16	25.82	1.35	31000	1.12	1.02	1.03
32000	4.17	4.01	0.16	30.42	1.43	32000	1.09	1.02	1.03
33000	4.16	4.00	0.17	33.71	1.48	33000	1.03	1.06	1.08
34000	4.27	4.09	0.18	26.79	1.56	34000	1.12	1.12	1.03
35000	4.20	4.04	0.16	22.86	1.70	35000	1.02	1.16	1.11
36000	4.19	4.02	0.16	28.38	1.71	36000	1.12	1.08	1.05
37000	4.23	4.09	0.14	27.52	1.64	37000	1.16	1.08	1.13
38000	4.22	4.06	0.15	28.89	1.53	38000	1.21	1.11	1.06
40000	4.23	4.08	0.15	44.12	1.43	40000	1.24	1.16	1.22
42000	4.33	4.14	0.19	25.24	1.38	42000	1.26	1.11	1.11
44000	4.33	4.14	0.19	27.85	1.46	44000	1.18	1.12	1.13
46000	4.46	4.22	0.24	26.92	1.55	46000	1.22	1.14	1.13
50000	4.83	4.52	0.30	40.04	1.10	50000	1.22	1.14	1.13
52000	5.07	4.69	0.38	28.03	1.37	52000	1.14	1.29	1.12

¹Total Loss = Insertion Loss + 3dB Splitter Loss



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Page 2 of 3

2 Way-0° Power Splitter/Combiner

ZC2PD-V254+

Typical Performance Data

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

FREQUENCY (MHz)	TOTAL LOSS ¹ (dB)		AMPLITUDE UNBALANCE (dB)	ISOLATION (dB) 1-2	PHASE UNBALANCE (Deg)	FREQUENCY (MHz)	VSWR (:1)		
	S-1	S-2					S	1	2
500	3.55	3.55	0.00	4.60	0.13	500	1.88	1.93	1.93
700	3.57	3.56	0.01	5.72	0.20	700	1.82	1.93	1.93
1000	3.55	3.53	0.02	8.43	0.26	1000	1.72	1.88	1.88
2000	3.28	3.22	0.06	30.75	0.08	2000	1.29	1.28	1.26
3000	3.30	3.24	0.05	39.40	0.00	3000	1.12	1.08	1.11
4000	3.30	3.25	0.05	22.63	0.12	4000	1.07	1.17	1.16
5000	3.43	3.39	0.04	22.64	0.10	5000	1.24	1.41	1.43
6000	3.46	3.37	0.08	23.95	0.07	6000	1.17	1.15	1.16
7000	3.53	3.44	0.09	24.73	0.13	7000	1.19	1.31	1.28
8000	3.53	3.45	0.08	26.63	0.32	8000	1.11	1.21	1.17
9000	3.55	3.48	0.06	31.58	0.36	9000	1.11	1.07	1.11
10000	3.56	3.51	0.06	23.75	0.28	10000	1.09	1.06	1.09
11000	3.68	3.60	0.08	21.80	0.24	11000	1.25	1.05	1.06
12000	3.60	3.52	0.08	22.22	0.42	12000	1.08	1.14	1.11
13000	3.77	3.69	0.08	29.40	0.51	13000	1.31	1.21	1.18
14000	3.71	3.64	0.07	26.57	0.59	14000	1.04	1.19	1.20
15000	3.84	3.79	0.05	25.82	0.59	15000	1.43	1.38	1.43
16000	3.73	3.67	0.06	41.00	0.53	16000	1.16	1.10	1.16
17000	3.84	3.79	0.06	30.87	0.57	17000	1.36	1.26	1.31
18000	3.74	3.68	0.06	34.72	0.47	18000	1.07	1.10	1.14
19000	3.86	3.78	0.08	27.33	0.54	19000	1.31	1.05	1.05
20000	3.78	3.70	0.07	22.67	0.64	20000	1.05	1.06	1.05
21000	3.85	3.77	0.08	21.94	0.67	21000	1.07	1.13	1.11
22000	3.88	3.81	0.08	23.55	0.71	22000	1.23	1.12	1.10
23000	3.89	3.80	0.09	30.77	0.70	23000	1.07	1.11	1.09
24000	3.95	3.85	0.10	32.21	0.81	24000	1.08	1.20	1.19
25000	3.95	3.86	0.09	27.75	0.87	25000	1.12	1.07	1.09
26000	3.99	3.89	0.09	28.97	0.94	26000	1.16	1.12	1.11
27000	4.01	3.93	0.08	23.74	0.99	27000	1.19	1.13	1.16
28000	4.03	3.95	0.08	25.76	0.91	28000	1.05	1.05	1.11
29000	4.07	3.97	0.10	37.06	0.96	29000	1.12	1.08	1.10
30000	4.08	3.98	0.10	28.41	1.05	30000	1.13	1.08	1.11
31000	4.14	4.03	0.10	24.61	1.04	31000	1.18	1.04	1.04
32000	4.12	4.02	0.10	28.81	1.14	32000	1.10	1.03	1.03
33000	4.14	4.03	0.11	39.22	1.08	33000	1.05	1.07	1.10
34000	4.22	4.09	0.12	29.28	1.25	34000	1.12	1.17	1.09
35000	4.18	4.07	0.11	24.18	1.36	35000	1.09	1.19	1.14
36000	4.17	4.07	0.10	29.95	1.38	36000	1.09	1.12	1.12
37000	4.24	4.15	0.09	27.73	1.35	37000	1.22	1.12	1.19
38000	4.17	4.07	0.10	27.64	1.25	38000	1.16	1.11	1.01
40000	4.19	4.09	0.10	35.89	1.22	40000	1.12	1.11	1.14
42000	4.23	4.11	0.12	25.61	1.42	42000	1.16	1.07	1.06
44000	4.29	4.17	0.12	25.06	1.41	44000	1.04	1.05	1.06
46000	4.42	4.27	0.14	30.29	1.50	46000	1.15	1.07	1.07
50000	4.70	4.54	0.16	37.06	1.21	50000	1.05	1.08	1.06
52000	4.90	4.72	0.18	34.44	1.34	52000	1.11	1.26	1.16

¹Total Loss = Insertion Loss + 3dB Splitter Loss



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Page 3 of 3