

8 Way-0° Power Splitter/Combiner

ZC8PD-5R263-S+

Typical Performance Data

Data tested at 25DegC

FREQ. (MHz)	TOTAL LOSS ¹ (dB)						AMP. UNBAL. (dB)	ISOLATION (dB)				PHASE UNBAL. (deg.)	FREQ. (MHz)	VSWR (:1)		
	S-1	S-2	S-3	S-4	S-6	S-8		1-2	2-4	5-7	7-8			S	1	8
100	9.40	9.39	9.43	9.41	9.41	9.41	0.03	2.84	11.91	11.77	2.88	0.40	100	1.44	1.54	1.53
500	9.55	9.55	9.54	9.55	9.55	9.55	0.01	17.14	21.19	21.71	16.99	0.32	500	1.20	1.07	1.09
1000	9.86	9.86	9.87	9.87	9.87	9.88	0.02	29.50	27.07	27.33	30.20	0.37	1000	1.33	1.10	1.11
1500	10.02	10.02	10.03	10.03	10.04	10.05	0.03	30.61	26.77	26.80	30.70	0.36	1500	1.23	1.16	1.15
2000	10.18	10.19	10.20	10.20	10.22	10.22	0.04	58.92	41.22	40.75	44.07	0.52	2000	1.18	1.24	1.23
2500	10.32	10.32	10.34	10.35	10.36	10.37	0.05	39.10	33.71	34.14	39.53	0.48	2500	1.07	1.06	1.05
3000	10.57	10.56	10.59	10.60	10.61	10.62	0.05	32.39	37.20	38.19	34.05	0.61	3000	1.29	1.24	1.24
3500	10.75	10.74	10.78	10.80	10.80	10.81	0.07	24.96	37.39	37.65	25.23	0.67	3500	1.34	1.14	1.14
4000	10.80	10.79	10.82	10.84	10.85	10.87	0.08	27.88	34.39	36.25	30.31	0.68	4000	1.09	1.07	1.07
4500	11.05	11.04	11.08	11.10	11.12	11.12	0.08	24.91	36.85	40.46	24.92	0.80	4500	1.33	1.20	1.21
5000	11.12	11.10	11.14	11.17	11.18	11.18	0.08	29.09	37.58	36.69	29.21	0.81	5000	1.18	1.11	1.11
5500	11.25	11.24	11.29	11.32	11.33	11.33	0.09	47.28	42.46	42.00	46.63	0.89	5500	1.17	1.15	1.16
6000	11.36	11.34	11.40	11.43	11.44	11.44	0.10	30.99	36.29	36.68	32.70	0.91	6000	1.06	1.10	1.11
6500	11.65	11.62	11.69	11.71	11.72	11.72	0.09	26.94	39.33	38.09	26.69	1.03	6500	1.36	1.23	1.21
7000	11.65	11.62	11.69	11.72	11.73	11.74	0.12	36.43	52.18	46.58	32.88	1.08	7000	1.17	1.10	1.09
7500	11.77	11.74	11.81	11.85	11.86	11.85	0.12	32.78	39.37	39.54	33.49	1.19	7500	1.10	1.14	1.12
8000	11.90	11.87	11.95	12.00	12.00	12.00	0.14	28.76	46.30	45.88	28.34	1.20	8000	1.18	1.08	1.08
8500	12.03	11.99	12.08	12.12	12.13	12.13	0.14	30.95	42.64	40.92	30.07	1.23	8500	1.15	1.10	1.11
9000	12.13	12.09	12.18	12.24	12.23	12.23	0.15	34.79	48.04	52.46	32.79	1.25	9000	1.09	1.06	1.06
9500	12.25	12.21	12.31	12.37	12.36	12.37	0.16	34.69	37.85	37.40	35.24	1.35	9500	1.09	1.05	1.06
10000	12.40	12.36	12.46	12.53	12.50	12.51	0.17	29.11	40.85	41.52	29.19	1.37	10000	1.16	1.04	1.04
11000	12.66	12.62	12.73	12.78	12.78	12.79	0.18	28.98	62.51	55.97	29.71	1.44	11000	1.16	1.10	1.09
12000	12.85	12.81	12.93	13.00	12.98	12.99	0.19	43.25	47.97	44.96	47.08	1.58	12000	1.05	1.15	1.14
13000	13.16	13.12	13.26	13.32	13.29	13.30	0.20	30.49	39.70	39.71	30.00	1.72	13000	1.22	1.19	1.18
14000	13.43	13.38	13.54	13.62	13.58	13.57	0.24	33.94	43.16	43.11	35.65	1.77	14000	1.19	1.27	1.25
15000	13.58	13.53	13.69	13.76	13.73	13.73	0.24	37.05	41.40	45.69	34.88	1.96	15000	1.15	1.15	1.13
16000	13.82	13.76	13.94	14.01	13.98	13.98	0.25	35.46	60.23	50.43	37.16	2.00	16000	1.05	1.11	1.09
17000	14.02	13.97	14.17	14.24	14.19	14.20	0.27	37.30	40.46	39.49	38.34	2.09	17000	1.14	1.04	1.07
18000	14.33	14.27	14.47	14.56	14.51	14.52	0.28	45.45	36.83	37.56	48.61	2.09	18000	1.35	1.08	1.09
19000	14.52	14.46	14.70	14.76	14.70	14.72	0.30	31.53	45.09	47.47	31.24	2.14	19000	1.18	1.18	1.20
20000	14.84	14.79	15.03	15.09	15.05	15.07	0.30	36.90	42.20	39.77	36.78	2.18	20000	1.36	1.22	1.25
21000	14.99	14.94	15.21	15.25	15.21	15.21	0.31	33.95	40.30	41.33	36.71	2.26	21000	1.07	1.24	1.25
22000	15.23	15.18	15.48	15.51	15.48	15.47	0.34	38.30	47.97	54.47	36.66	2.24	22000	1.20	1.22	1.23
23000	15.44	15.39	15.69	15.73	15.66	15.68	0.34	39.85	53.41	51.67	36.47	2.25	23000	1.01	1.13	1.14
24000	15.73	15.70	15.98	16.04	15.99	15.99	0.34	31.40	48.18	45.25	31.11	2.30	24000	1.19	1.17	1.19
25000	15.90	15.85	16.19	16.24	16.14	16.18	0.39	58.72	43.74	46.15	48.85	2.48	25000	1.14	1.10	1.11
26000	16.17	16.15	16.43	16.47	16.40	16.42	0.32	28.89	54.38	50.07	29.00	2.83	26000	1.16	1.17	1.18
26500	16.25	16.22	16.53	16.54	16.48	16.49	0.32	48.47	44.45	44.94	40.25	2.79	26500	1.16	1.09	1.10
27000	16.40	16.36	16.67	16.70	16.64	16.66	0.34	32.05	45.94	51.15	32.75	2.78	27000	1.23	1.13	1.14
27500	16.50	16.46	16.79	16.79	16.75	16.77	0.33	34.52	42.46	42.61	33.04	3.00	27500	1.16	1.14	1.14
28000	16.63	16.59	16.91	16.91	16.85	16.88	0.32	34.16	44.74	44.79	37.69	3.12	28000	1.16	1.10	1.09

¹Total Loss = Insertion Loss + 9dB Splitter Loss



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IF/RF MICROWAVE COMPONENTS

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8 Way-0° Power Splitter/Combiner

ZC8PD-5R263-S+

Typical Performance Data

Data tested at -55DegC

FREQ. (MHz)	TOTAL LOSS ¹ (dB)						AMP. UNBAL. (dB)	ISOLATION (dB)				PHASE UNBAL. (deg.)	FREQ. (MHz)	VSWR (:1)		
	S-1	S-2	S-3	S-4	S-6	S-8		1-2	2-4	5-7	7-8			S	1	8
100	9.40	9.43	9.34	9.53	9.44	9.41	0.19	2.88	11.87	11.86	2.90	0.95	100	1.44	1.53	1.53
500	9.52	9.55	9.52	9.64	9.55	9.54	0.12	17.07	21.24	21.72	16.90	0.28	500	1.22	1.06	1.08
1000	9.81	9.86	9.80	9.95	9.85	9.85	0.14	29.98	27.06	27.33	30.90	0.24	1000	1.33	1.09	1.10
1500	9.97	10.01	9.95	10.11	9.98	10.00	0.15	30.57	26.59	26.69	31.24	0.37	1500	1.26	1.17	1.16
2000	10.09	10.14	10.10	10.23	10.13	10.16	0.14	46.00	39.63	39.47	41.07	0.53	2000	1.18	1.22	1.22
2500	10.23	10.28	10.22	10.36	10.27	10.30	0.14	37.80	34.30	35.04	39.07	0.47	2500	1.06	1.06	1.05
3000	10.45	10.49	10.44	10.58	10.49	10.52	0.14	35.65	37.16	38.66	37.32	0.74	3000	1.25	1.24	1.24
3500	10.63	10.69	10.63	10.77	10.70	10.73	0.14	24.42	35.64	35.93	24.75	0.83	3500	1.33	1.14	1.15
4000	10.66	10.72	10.66	10.80	10.74	10.76	0.15	29.55	32.79	34.26	32.68	0.75	4000	1.06	1.07	1.07
4500	10.85	10.91	10.84	10.99	10.95	10.98	0.16	24.79	36.23	39.05	24.51	0.90	4500	1.25	1.18	1.20
5000	10.93	11.01	10.93	11.09	11.01	11.05	0.16	29.34	36.34	35.55	29.50	0.86	5000	1.10	1.10	1.10
5500	11.09	11.17	11.09	11.25	11.18	11.21	0.16	40.62	43.95	43.72	42.32	0.92	5500	1.21	1.16	1.16
6000	11.18	11.26	11.17	11.33	11.26	11.30	0.16	30.07	37.38	37.69	32.22	1.05	6000	1.05	1.11	1.11
6500	11.41	11.48	11.39	11.55	11.49	11.54	0.15	28.30	40.84	38.78	27.74	1.27	6500	1.26	1.23	1.21
7000	11.46	11.55	11.46	11.61	11.55	11.60	0.16	34.72	44.85	43.76	32.00	1.29	7000	1.20	1.09	1.07
7500	11.55	11.65	11.55	11.71	11.65	11.69	0.16	36.08	37.92	38.14	36.30	1.31	7500	1.11	1.14	1.12
8000	11.65	11.76	11.66	11.82	11.76	11.81	0.17	31.12	44.09	44.46	30.36	1.33	8000	1.06	1.08	1.07
8500	11.78	11.90	11.79	11.95	11.88	11.94	0.18	31.06	43.64	42.58	30.32	1.49	8500	1.02	1.11	1.11
9000	11.89	12.01	11.91	12.06	11.99	12.05	0.18	33.91	45.18	48.41	32.25	1.57	9000	1.12	1.05	1.05
9500	11.99	12.13	12.02	12.18	12.11	12.16	0.19	34.58	38.83	38.45	35.17	1.66	9500	1.12	1.06	1.05
10000	12.09	12.24	12.13	12.29	12.22	12.28	0.19	33.33	43.44	43.84	32.45	1.84	10000	1.06	1.02	1.00
11000	12.34	12.51	12.39	12.55	12.48	12.54	0.21	30.30	49.48	52.54	30.94	2.00	11000	1.17	1.08	1.09
12000	12.52	12.71	12.58	12.74	12.67	12.73	0.22	46.53	48.87	46.79	42.95	2.27	12000	1.06	1.12	1.12
13000	12.78	12.98	12.83	13.01	12.94	13.01	0.24	31.88	40.67	40.95	30.74	2.48	13000	1.11	1.18	1.20
14000	13.00	13.23	13.07	13.26	13.18	13.22	0.25	37.92	46.41	44.03	39.81	2.81	14000	1.15	1.21	1.23
15000	13.22	13.45	13.31	13.48	13.40	13.44	0.26	36.52	45.20	43.78	34.03	3.00	15000	1.17	1.13	1.16
16000	13.44	13.68	13.54	13.69	13.64	13.70	0.26	31.03	45.22	49.83	30.39	3.34	16000	1.26	1.11	1.13
17000	13.66	13.94	13.77	13.94	13.87	13.92	0.28	35.44	37.39	37.07	34.57	3.46	17000	1.37	1.04	1.06
18000	13.88	14.13	13.98	14.12	14.07	14.14	0.27	29.78	38.25	37.97	31.71	3.54	18000	1.27	1.06	1.05
19000	14.06	14.34	14.18	14.33	14.27	14.37	0.31	34.82	56.11	62.57	33.72	4.01	19000	1.22	1.19	1.19
20000	14.26	14.55	14.40	14.53	14.48	14.57	0.32	33.52	49.52	43.03	34.42	4.21	20000	1.17	1.18	1.19
21000	14.49	14.78	14.64	14.76	14.72	14.80	0.31	35.97	40.58	41.27	39.36	4.38	21000	1.11	1.28	1.25
22000	14.67	15.00	14.88	14.98	14.94	15.01	0.33	40.67	44.54	45.73	39.87	4.90	22000	1.21	1.22	1.22
23000	14.86	15.20	15.05	15.18	15.11	15.22	0.36	46.38	44.23	44.63	41.10	5.01	23000	1.09	1.14	1.16
24000	15.10	15.48	15.33	15.46	15.38	15.46	0.38	41.21	48.43	47.93	42.87	5.18	24000	1.16	1.10	1.15
25000	15.30	15.67	15.51	15.64	15.55	15.67	0.37	38.19	40.64	44.15	36.50	5.52	25000	1.16	1.05	1.11
26000	15.50	15.85	15.69	15.83	15.76	15.89	0.39	30.97	52.64	50.22	30.43	5.84	26000	1.06	1.11	1.16
26500	15.57	15.92	15.78	15.89	15.82	15.95	0.37	34.23	45.61	45.40	38.45	6.20	26500	1.09	1.05	1.11
27000	15.75	16.07	15.95	16.03	15.98	16.12	0.37	33.35	42.89	43.70	33.92	6.21	27000	1.21	1.07	1.12
27500	15.83	16.16	16.06	16.13	16.09	16.20	0.37	34.76	47.78	45.96	37.35	6.40	27500	1.21	1.09	1.12
28000	15.94	16.27	16.16	16.24	16.19	16.32	0.38	31.26	44.85	44.56	33.60	6.61	28000	1.14	1.10	1.13

¹Total Loss = Insertion Loss + 9dB Splitter Loss



8 Way-0° Power Splitter/Combiner

ZC8PD-5R263-S+

Typical Performance Data

Data tested at 100DegC

FREQ. (MHz)	TOTAL LOSS ¹ (dB)						AMP. UNBAL. (dB)	ISOLATION (dB)				PHASE UNBAL. (deg.)	FREQ. (MHz)	VSWR (:1)		
	S-1	S-2	S-3	S-4	S-6	S-8		1-2	2-4	5-7	7-8			S	1	8
100	9.41	9.40	9.48	9.43	9.42	9.40	0.09	2.81	11.96	11.96	2.86	0.21	100	1.44	1.56	1.54
500	9.59	9.59	9.56	9.57	9.56	9.57	0.03	16.55	19.98	20.26	16.04	0.14	500	1.18	1.12	1.14
1000	9.91	9.91	9.91	9.91	9.89	9.90	0.03	27.71	26.04	26.24	28.20	0.21	1000	1.33	1.17	1.18
1500	10.08	10.08	10.08	10.07	10.07	10.07	0.03	27.60	26.07	26.22	27.55	0.42	1500	1.21	1.17	1.16
2000	10.26	10.26	10.26	10.26	10.25	10.25	0.02	42.42	39.33	39.20	52.58	0.56	2000	1.18	1.27	1.27
2500	10.41	10.40	10.40	10.41	10.40	10.41	0.02	36.80	32.27	32.50	37.86	0.66	2500	1.06	1.07	1.06
3000	10.69	10.67	10.68	10.68	10.66	10.67	0.04	29.50	35.46	36.53	31.23	0.72	3000	1.31	1.26	1.26
3500	10.86	10.84	10.86	10.87	10.84	10.85	0.04	24.90	37.79	39.25	24.90	0.79	3500	1.32	1.13	1.14
4000	10.94	10.90	10.92	10.93	10.92	10.93	0.04	26.17	34.59	37.16	28.29	0.92	4000	1.12	1.06	1.07
4500	11.23	11.18	11.21	11.22	11.20	11.20	0.05	24.99	37.22	41.34	24.89	1.07	4500	1.37	1.21	1.22
5000	11.29	11.23	11.27	11.28	11.25	11.26	0.05	28.58	37.84	36.88	28.34	1.14	5000	1.22	1.11	1.11
5500	11.41	11.35	11.40	11.42	11.39	11.39	0.06	49.96	42.62	42.37	47.03	1.27	5500	1.14	1.16	1.16
6000	11.54	11.48	11.52	11.54	11.52	11.51	0.07	30.56	35.17	35.33	32.08	1.44	6000	1.08	1.10	1.10
6500	11.85	11.77	11.83	11.84	11.80	11.81	0.08	26.55	39.88	38.69	26.35	1.50	6500	1.38	1.22	1.21
7000	11.84	11.75	11.82	11.85	11.81	11.82	0.10	36.49	55.26	47.10	32.25	1.55	7000	1.12	1.10	1.08
7500	11.99	11.89	11.96	11.98	11.94	11.95	0.10	31.50	40.12	40.62	32.25	1.72	7500	1.07	1.14	1.11
8000	12.15	12.05	12.14	12.17	12.12	12.12	0.13	28.20	50.02	49.39	27.61	1.79	8000	1.23	1.10	1.09
8500	12.28	12.16	12.26	12.29	12.24	12.25	0.13	30.98	40.80	39.15	29.86	1.90	8500	1.18	1.09	1.09
9000	12.38	12.26	12.36	12.40	12.33	12.35	0.14	34.95	48.76	52.01	32.31	2.07	9000	1.04	1.06	1.05
9500	12.52	12.39	12.50	12.53	12.47	12.49	0.14	34.21	37.30	36.68	34.68	2.18	9500	1.07	1.04	1.05
10000	12.69	12.55	12.67	12.72	12.64	12.65	0.16	28.28	39.33	40.19	28.77	2.25	10000	1.19	1.06	1.05
11000	12.97	12.82	12.94	12.99	12.91	12.93	0.17	28.55	61.05	51.98	29.51	2.51	11000	1.15	1.10	1.10
12000	13.18	13.03	13.17	13.22	13.13	13.14	0.19	39.58	45.00	42.58	44.77	2.65	12000	1.04	1.14	1.15
13000	13.49	13.33	13.49	13.53	13.43	13.45	0.20	31.27	40.17	40.05	30.82	2.90	13000	1.17	1.15	1.17
14000	13.82	13.64	13.82	13.88	13.76	13.77	0.24	32.03	40.43	42.01	34.31	2.98	14000	1.26	1.23	1.25
15000	13.98	13.79	13.99	14.03	13.92	13.93	0.24	37.30	38.72	41.83	34.57	3.32	15000	1.16	1.12	1.12
16000	14.26	14.06	14.28	14.33	14.21	14.22	0.27	34.76	44.91	42.64	37.27	3.59	16000	1.19	1.09	1.09
17000	14.50	14.30	14.53	14.56	14.43	14.44	0.27	34.31	44.51	42.39	35.93	3.68	17000	1.20	1.07	1.07
18000	14.78	14.57	14.81	14.87	14.73	14.74	0.30	38.44	37.15	38.47	42.29	3.90	18000	1.29	1.11	1.08
19000	15.04	14.82	15.10	15.13	14.97	14.98	0.31	31.13	43.00	43.70	31.44	4.08	19000	1.19	1.21	1.19
20000	15.34	15.13	15.41	15.46	15.29	15.32	0.33	38.29	41.23	39.56	39.40	4.26	20000	1.32	1.23	1.24
21000	15.59	15.38	15.68	15.69	15.52	15.51	0.31	32.47	39.54	40.97	34.96	4.56	21000	1.16	1.25	1.24
22000	15.79	15.58	15.91	15.91	15.76	15.76	0.33	40.75	53.70	64.06	38.07	4.85	22000	1.11	1.21	1.22
23000	16.07	15.86	16.19	16.18	16.03	16.03	0.33	36.51	45.37	57.95	33.77	5.07	23000	1.17	1.12	1.14
24000	16.34	16.17	16.46	16.47	16.31	16.31	0.31	30.73	48.29	46.38	30.48	5.41	24000	1.05	1.16	1.22
25000	16.59	16.38	16.73	16.75	16.52	16.55	0.37	41.19	46.92	45.46	40.37	5.67	25000	1.14	1.12	1.17
26000	16.81	16.63	16.95	16.95	16.74	16.75	0.32	30.10	51.08	48.41	30.10	5.96	26000	1.07	1.14	1.20
26500	16.99	16.80	17.12	17.08	16.91	16.92	0.32	38.54	44.13	44.25	35.55	5.83	26500	1.26	1.13	1.18
27000	17.12	16.92	17.26	17.24	17.04	17.05	0.33	31.72	51.56	60.00	32.54	6.08	27000	1.25	1.15	1.20
27500	17.23	17.04	17.38	17.33	17.15	17.17	0.34	32.90	41.81	42.60	31.48	6.34	27500	1.04	1.16	1.21
28000	17.35	17.15	17.49	17.45	17.25	17.26	0.35	38.84	48.05	46.29	39.30	6.46	28000	1.21	1.08	1.12

¹Total Loss = Insertion Loss + 9dB Splitter Loss



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