

# 16 Way-0° Power Splitter/Combiner

# ZN16PD-0563-S+

## Typical Performance Data

Data tested at 25DegC

FREQ. (MHz)	TOTAL LOSS <sup>1</sup> (dB)						AMP. UNBAL. (dB)	ISOLATION (dB)				PHASE UNBAL. (deg.)	FREQ. (MHz)	VSWR (:1)		
	S-1	S-5	S-8	S-9	S-13	S-16		1-2	5-7	9-11	13-16			S	1	16
500	12.63	12.57	12.61	12.63	12.62	12.64	0.10	17.65	24.68	24.60	24.76	0.89	500	1.59	1.04	1.04
600	12.54	12.49	12.51	12.52	12.51	12.52	0.07	23.34	28.31	28.08	28.05	1.06	600	1.35	1.05	1.05
700	12.47	12.44	12.47	12.48	12.47	12.47	0.07	29.32	33.61	33.55	34.26	1.25	700	1.08	1.08	1.09
800	12.58	12.55	12.58	12.59	12.57	12.57	0.06	35.68	40.91	40.66	40.94	1.53	800	1.29	1.14	1.15
900	12.61	12.57	12.59	12.58	12.57	12.58	0.07	26.52	31.38	31.70	31.09	1.76	900	1.23	1.10	1.12
1000	12.65	12.62	12.63	12.62	12.59	12.61	0.09	23.30	28.71	28.98	29.07	1.69	1000	1.22	1.04	1.06
1100	12.65	12.62	12.63	12.66	12.63	12.66	0.08	23.00	29.28	28.72	28.66	1.71	1100	1.20	1.02	1.04
1200	12.72	12.68	12.71	12.73	12.74	12.73	0.08	23.38	29.47	28.59	28.97	2.02	1200	1.29	1.03	1.04
1300	12.73	12.71	12.78	12.79	12.78	12.75	0.08	25.84	29.83	29.60	29.59	1.79	1300	1.22	1.04	1.05
1400	12.70	12.70	12.76	12.77	12.72	12.71	0.11	25.88	33.42	33.55	33.58	1.94	1400	1.12	1.03	1.05
1500	12.71	12.73	12.77	12.78	12.72	12.71	0.11	27.40	35.52	35.59	35.40	2.24	1500	1.08	1.05	1.06
1600	12.75	12.77	12.79	12.79	12.75	12.76	0.09	33.95	44.29	44.75	45.09	2.39	1600	1.04	1.10	1.11
1700	12.83	12.85	12.87	12.89	12.83	12.84	0.11	28.48	32.04	32.55	31.79	2.37	1700	1.25	1.09	1.09
1800	12.84	12.88	12.93	12.93	12.84	12.83	0.13	24.57	30.66	31.79	31.53	2.55	1800	1.21	1.05	1.05
1900	12.86	12.90	12.95	12.98	12.90	12.88	0.15	23.62	29.77	30.31	30.09	2.55	1900	1.21	1.00	1.01
2000	12.89	12.90	12.95	12.98	12.93	12.93	0.12	24.92	30.53	29.63	30.46	2.50	2000	1.19	1.03	1.04
2100	12.98	12.98	13.05	13.04	12.99	12.98	0.11	25.64	31.37	29.91	30.67	2.42	2100	1.29	1.04	1.07
2200	12.91	12.99	12.98	12.97	12.94	12.91	0.14	28.36	30.76	29.93	31.01	2.94	2200	1.03	1.05	1.08
2300	12.92	13.08	13.05	13.04	13.00	12.92	0.21	27.36	31.63	31.12	31.91	3.14	2300	1.12	1.03	1.05
2400	13.01	13.20	13.22	13.23	13.16	13.04	0.23	27.18	42.84	41.14	45.95	3.12	2400	1.15	1.08	1.10
2500	13.05	13.20	13.26	13.24	13.16	13.06	0.23	37.86	39.32	42.07	37.32	2.85	2500	1.13	1.09	1.11
2600	13.03	13.14	13.17	13.16	13.08	13.04	0.18	32.57	35.41	38.62	36.26	2.90	2600	1.07	1.07	1.09
2700	13.09	13.22	13.26	13.26	13.12	13.11	0.21	26.61	31.35	32.32	31.36	2.80	2700	1.18	1.02	1.03
2800	13.14	13.31	13.35	13.36	13.17	13.16	0.26	27.84	32.74	32.13	32.29	3.07	2800	1.13	1.02	1.03
2900	13.22	13.44	13.41	13.39	13.28	13.23	0.26	26.07	32.95	31.12	32.07	3.60	2900	1.28	1.02	1.04
3000	13.16	13.35	13.28	13.26	13.25	13.16	0.23	27.37	31.12	30.13	32.02	3.71	3000	1.08	1.04	1.05
3100	13.21	13.32	13.31	13.31	13.31	13.22	0.16	28.54	31.01	30.44	31.54	3.51	3100	1.23	1.04	1.05
3200	13.28	13.36	13.38	13.37	13.34	13.29	0.15	24.76	34.10	33.34	35.59	3.36	3200	1.30	1.05	1.07
3300	13.21	13.36	13.33	13.32	13.28	13.23	0.19	27.28	50.75	45.25	44.23	3.39	3300	1.20	1.11	1.12
3400	13.19	13.34	13.39	13.41	13.27	13.23	0.24	36.59	34.76	40.76	37.10	3.48	3400	1.06	1.10	1.12
3500	13.28	13.42	13.54	13.56	13.36	13.31	0.30	30.81	31.20	34.60	32.44	3.73	3500	1.03	1.07	1.08
3750	13.31	13.45	13.46	13.47	13.40	13.32	0.20	27.83	34.45	31.94	33.32	3.63	3750	1.05	1.05	1.06
4000	13.42	13.66	13.65	13.64	13.59	13.47	0.31	24.34	39.29	37.81	42.32	3.56	4000	1.17	1.01	1.05
4250	13.54	13.69	13.79	13.77	13.66	13.58	0.27	33.58	32.17	36.93	33.24	3.87	4250	1.13	1.09	1.10
4500	13.67	13.85	13.88	13.84	13.82	13.72	0.22	34.34	33.34	32.68	31.81	4.76	4500	1.11	1.13	1.10
4750	13.64	13.94	13.88	13.89	13.90	13.73	0.32	22.75	41.68	40.59	42.50	3.96	4750	1.10	1.04	1.02
5000	13.84	14.23	14.19	14.15	14.18	13.90	0.42	28.97	33.03	33.54	32.57	4.47	5000	1.17	1.11	1.07
5500	13.87	14.24	14.21	14.27	14.18	13.99	0.41	22.46	37.31	36.00	38.75	4.47	5500	1.21	1.11	1.10
6000	13.95	14.42	14.28	14.35	14.31	14.10	0.60	27.29	31.63	36.85	30.60	4.84	6000	1.05	1.13	1.10
6500	14.41	14.31	14.50	14.51	14.54	14.44	0.33	26.63	31.11	27.96	28.35	4.03	6500	1.09	1.12	1.12

<sup>1</sup>Total Loss = Insertion Loss + 12dB Splitter Loss



# 16 Way-0° Power Splitter/Combiner

# ZN16PD-0563-S+

## Typical Performance Data

Data tested at -40DegC

FREQ. (MHz)	TOTAL LOSS <sup>1</sup> (dB)						AMP. UNBAL. (dB)	ISOLATION (dB)				PHASE UNBAL. (deg.)	FREQ. (MHz)	VSWR (:1)		
	S-1	S-5	S-8	S-9	S-13	S-16		1-2	5-7	9-11	13-16			S	1	16
500	12.56	12.50	12.52	12.53	12.54	12.53	0.10	17.85	24.89	24.81	24.90	1.32	500	1.56	1.04	1.04
600	12.48	12.43	12.44	12.46	12.45	12.45	0.08	23.72	28.86	28.60	28.59	1.55	600	1.35	1.07	1.06
700	12.43	12.39	12.42	12.43	12.40	12.40	0.06	30.04	33.91	33.86	34.43	1.71	700	1.13	1.10	1.11
800	12.52	12.48	12.52	12.52	12.50	12.50	0.07	36.68	40.95	40.68	40.83	2.04	800	1.30	1.16	1.17
900	12.52	12.48	12.49	12.49	12.47	12.48	0.08	26.41	31.34	31.70	31.17	2.31	900	1.18	1.10	1.12
1000	12.59	12.55	12.56	12.56	12.50	12.54	0.11	23.29	28.72	28.94	28.97	2.68	1000	1.25	1.05	1.07
1100	12.57	12.53	12.55	12.59	12.53	12.56	0.09	23.17	29.50	28.84	28.83	2.68	1100	1.19	1.04	1.05
1200	12.64	12.59	12.62	12.64	12.65	12.63	0.09	23.58	29.60	28.72	29.05	2.80	1200	1.30	1.04	1.06
1300	12.64	12.61	12.67	12.68	12.68	12.63	0.08	26.13	30.25	30.07	29.99	3.13	1300	1.20	1.05	1.07
1400	12.60	12.60	12.66	12.68	12.62	12.60	0.10	26.29	34.12	34.26	34.32	3.06	1400	1.14	1.05	1.07
1500	12.61	12.63	12.67	12.67	12.60	12.60	0.11	27.82	36.36	36.41	36.08	3.28	1500	1.07	1.07	1.08
1600	12.66	12.67	12.68	12.68	12.64	12.65	0.09	36.71	40.83	41.21	41.07	3.50	1600	1.07	1.12	1.13
1700	12.71	12.73	12.75	12.77	12.69	12.70	0.11	27.59	31.81	32.39	31.59	3.50	1700	1.24	1.08	1.08
1800	12.73	12.77	12.81	12.82	12.71	12.70	0.15	24.45	30.71	31.91	31.66	3.88	1800	1.20	1.03	1.04
1900	12.74	12.77	12.81	12.85	12.76	12.74	0.14	23.93	29.85	30.21	30.04	3.97	1900	1.20	1.02	1.04
2000	12.80	12.79	12.83	12.86	12.82	12.81	0.09	25.09	31.00	29.80	30.75	4.05	2000	1.24	1.04	1.06
2100	12.85	12.85	12.91	12.88	12.83	12.83	0.13	26.11	31.50	30.03	30.75	4.06	2100	1.27	1.06	1.09
2200	12.79	12.88	12.86	12.84	12.81	12.77	0.17	28.86	31.00	30.21	31.37	4.62	2200	1.07	1.07	1.09
2300	12.80	12.96	12.93	12.92	12.86	12.79	0.24	27.08	32.57	32.00	32.81	5.03	2300	1.13	1.05	1.07
2400	12.89	13.06	13.09	13.10	13.03	12.91	0.25	28.49	51.56	47.82	64.18	5.03	2400	1.19	1.11	1.13
2500	12.91	13.05	13.10	13.08	12.99	12.89	0.24	37.13	37.90	40.62	36.36	4.84	2500	1.11	1.09	1.11
2600	12.89	13.00	13.03	13.03	12.92	12.88	0.19	31.07	34.79	37.59	35.55	5.26	2600	1.09	1.07	1.09
2700	12.94	13.07	13.10	13.11	12.96	12.94	0.22	26.76	31.18	31.95	31.07	5.48	2700	1.18	1.03	1.03
2800	13.02	13.21	13.23	13.22	13.06	13.03	0.26	27.81	33.93	32.60	33.08	5.88	2800	1.19	1.04	1.05
2900	13.07	13.28	13.23	13.20	13.13	13.05	0.27	26.52	32.40	30.73	31.85	6.08	2900	1.27	1.05	1.08
3000	13.02	13.19	13.12	13.11	13.10	13.01	0.23	27.94	31.54	30.58	32.50	6.04	3000	1.13	1.06	1.08
3100	13.07	13.15	13.16	13.16	13.13	13.05	0.17	28.11	31.36	30.82	31.82	6.08	3100	1.25	1.04	1.06
3200	13.10	13.18	13.19	13.19	13.13	13.09	0.17	24.93	37.08	35.72	38.73	6.29	3200	1.29	1.09	1.11
3300	13.02	13.17	13.15	13.15	13.07	13.02	0.21	29.00	41.92	45.53	41.78	6.64	3300	1.15	1.12	1.14
3400	13.03	13.17	13.23	13.28	13.10	13.05	0.27	36.57	33.58	39.25	35.61	6.68	3400	1.04	1.10	1.12
3500	13.13	13.25	13.35	13.36	13.19	13.14	0.26	30.15	30.79	33.62	31.92	7.01	3500	1.06	1.07	1.08
3750	13.14	13.29	13.29	13.30	13.22	13.14	0.22	27.47	34.72	32.20	34.21	7.56	3750	1.07	1.03	1.06
4000	13.23	13.45	13.47	13.48	13.37	13.26	0.31	24.65	43.21	40.82	42.93	7.82	4000	1.20	1.05	1.09
4250	13.36	13.49	13.56	13.53	13.45	13.38	0.23	31.90	29.98	34.21	31.38	8.36	4250	1.12	1.07	1.08
4500	13.46	13.65	13.62	13.61	13.59	13.48	0.22	31.21	34.30	32.11	32.05	9.84	4500	1.10	1.11	1.08
4750	13.41	13.71	13.66	13.69	13.66	13.46	0.32	23.14	38.75	38.08	37.31	10.23	4750	1.13	1.02	1.03
5000	13.63	13.95	13.94	13.88	13.92	13.63	0.36	31.87	30.82	33.05	31.55	9.99	5000	1.19	1.11	1.07
5500	13.56	14.00	13.91	13.96	13.82	13.64	0.49	23.17	33.57	32.29	34.35	12.97	5500	1.16	1.08	1.04
6000	13.71	14.15	14.02	14.12	13.98	13.81	0.65	29.77	32.26	36.50	30.51	12.67	6000	1.03	1.18	1.12
6500	14.14	14.05	14.17	14.16	14.21	14.15	0.25	27.51	29.90	27.37	27.77	16.24	6500	1.12	1.10	1.11

<sup>1</sup>Total Loss = Insertion Loss + 12dB Splitter Loss



# 16 Way-0° Power Splitter/Combiner

# ZN16PD-0563-S+

## Typical Performance Data

Data tested at 100DegC

FREQ. (MHz)	TOTAL LOSS <sup>1</sup> (dB)						AMP. UNBAL. (dB)	ISOLATION (dB)				PHASE UNBAL. (deg.)	FREQ. (MHz)	VSWR (:1)		
	S-1	S-5	S-8	S-9	S-13	S-16		1-2	5-7	9-11	13-16			S	1	16
500	12.67	12.61	12.63	12.62	12.66	12.64	0.09	17.51	24.57	24.50	24.63	1.10	500	1.59	1.05	1.04
600	12.56	12.52	12.53	12.54	12.54	12.54	0.07	23.10	28.01	27.79	27.74	1.32	600	1.34	1.06	1.05
700	12.51	12.47	12.50	12.51	12.49	12.50	0.06	28.72	33.49	33.40	34.05	1.53	700	1.06	1.07	1.08
800	12.60	12.58	12.61	12.61	12.59	12.60	0.06	35.04	40.80	40.56	41.21	1.84	800	1.26	1.12	1.13
900	12.65	12.62	12.64	12.63	12.62	12.64	0.06	26.64	31.38	31.68	31.13	2.19	900	1.26	1.10	1.11
1000	12.70	12.67	12.68	12.67	12.62	12.66	0.10	23.24	28.67	28.96	28.95	2.21	1000	1.23	1.04	1.06
1100	12.70	12.67	12.68	12.72	12.66	12.70	0.09	22.84	29.16	28.65	28.67	2.16	1100	1.19	1.02	1.02
1200	12.76	12.72	12.75	12.76	12.77	12.76	0.08	23.25	29.36	28.48	28.76	2.42	1200	1.26	1.01	1.02
1300	12.78	12.76	12.81	12.82	12.83	12.79	0.08	25.50	29.63	29.36	29.43	2.51	1300	1.22	1.03	1.04
1400	12.75	12.75	12.81	12.81	12.77	12.76	0.09	25.65	32.95	33.07	32.88	2.73	1400	1.11	1.02	1.03
1500	12.77	12.79	12.83	12.83	12.77	12.77	0.11	26.98	35.13	35.19	35.14	2.84	1500	1.07	1.03	1.04
1600	12.81	12.83	12.84	12.84	12.81	12.82	0.09	32.09	46.69	47.18	48.86	3.04	1600	1.02	1.08	1.09
1700	12.90	12.92	12.94	12.94	12.89	12.91	0.10	29.55	32.29	32.76	32.06	3.43	1700	1.25	1.10	1.10
1800	12.92	12.97	13.02	13.01	12.91	12.91	0.15	24.60	30.55	31.61	31.24	3.51	1800	1.24	1.07	1.06
1900	12.93	12.98	13.03	13.05	12.96	12.95	0.15	23.41	29.76	30.41	30.19	3.15	1900	1.21	1.03	1.02
2000	12.95	12.95	12.99	13.02	12.99	12.98	0.10	24.68	30.20	29.47	30.11	3.37	2000	1.14	1.01	1.02
2100	13.06	13.06	13.13	13.10	13.07	13.06	0.12	25.24	31.28	29.84	30.65	3.61	2100	1.30	1.02	1.04
2200	12.99	13.05	13.05	13.04	13.01	12.99	0.12	27.95	30.61	29.75	30.64	4.16	2200	1.04	1.04	1.06
2300	13.00	13.16	13.13	13.11	13.05	13.00	0.21	27.56	31.15	30.65	31.44	4.28	2300	1.09	1.03	1.04
2400	13.09	13.28	13.31	13.31	13.23	13.12	0.23	26.37	39.89	38.69	41.20	4.50	2400	1.14	1.05	1.07
2500	13.15	13.30	13.35	13.33	13.24	13.16	0.23	36.27	40.86	43.95	38.56	4.21	2500	1.14	1.09	1.11
2600	13.13	13.23	13.27	13.26	13.17	13.14	0.19	33.83	35.61	38.82	36.42	4.21	2600	1.08	1.08	1.10
2700	13.20	13.31	13.35	13.36	13.22	13.22	0.21	26.78	31.60	32.72	31.76	4.34	2700	1.18	1.05	1.06
2800	13.22	13.36	13.41	13.43	13.25	13.25	0.24	27.49	32.05	31.74	31.65	4.52	2800	1.08	1.02	1.02
2900	13.31	13.52	13.51	13.48	13.36	13.33	0.24	25.88	33.25	31.39	32.29	4.74	2900	1.28	1.00	1.02
3000	13.26	13.45	13.40	13.38	13.33	13.27	0.24	26.84	30.95	29.92	31.67	4.89	3000	1.08	1.03	1.04
3100	13.31	13.43	13.41	13.41	13.39	13.33	0.16	28.48	30.79	30.19	31.39	5.01	3100	1.19	1.03	1.04
3200	13.41	13.47	13.50	13.50	13.45	13.42	0.14	24.91	32.92	32.31	34.01	5.31	3200	1.30	1.03	1.05
3300	13.35	13.49	13.46	13.46	13.41	13.38	0.18	25.97	51.01	42.58	44.96	5.34	3300	1.24	1.09	1.11
3400	13.31	13.46	13.49	13.51	13.38	13.34	0.23	34.47	35.65	41.44	38.06	5.26	3400	1.08	1.10	1.13
3500	13.38	13.53	13.64	13.67	13.47	13.42	0.30	32.08	31.62	35.43	32.98	5.48	3500	1.01	1.07	1.10
3750	13.43	13.56	13.59	13.59	13.51	13.45	0.20	28.14	34.45	31.96	32.85	5.64	3750	1.04	1.06	1.07
4000	13.56	13.80	13.76	13.78	13.73	13.62	0.30	24.35	37.24	36.01	39.51	6.15	4000	1.16	1.02	1.03
4250	13.65	13.82	13.90	13.88	13.79	13.69	0.27	31.94	33.49	37.91	34.45	6.85	4250	1.10	1.09	1.10
4500	13.83	14.00	14.09	14.04	13.95	13.86	0.29	36.45	32.22	32.75	31.28	6.94	4500	1.11	1.13	1.09
4750	13.80	14.10	14.03	14.05	14.05	13.88	0.31	22.79	41.44	39.68	43.60	6.34	4750	1.11	1.08	1.05
5000	14.01	14.42	14.36	14.31	14.36	14.06	0.44	26.84	33.68	33.09	32.74	6.59	5000	1.15	1.10	1.05
5500	14.11	14.38	14.38	14.44	14.39	14.20	0.33	22.74	42.04	40.45	45.83	7.56	5500	1.20	1.18	1.15
6000	14.17	14.59	14.44	14.54	14.47	14.33	0.53	25.94	30.98	35.61	30.55	7.84	6000	1.10	1.12	1.10
6500	14.62	14.51	14.75	14.73	14.70	14.61	0.34	25.45	31.96	28.60	29.23	7.19	6500	1.09	1.14	1.13

<sup>1</sup>Total Loss = Insertion Loss + 12dB Splitter Loss

