

Coaxial

Power Splitter/Combiner

ZC8PD1-10+

8 Way-0° 50Ω 300 to 1000 MHz

Maximum Ratings

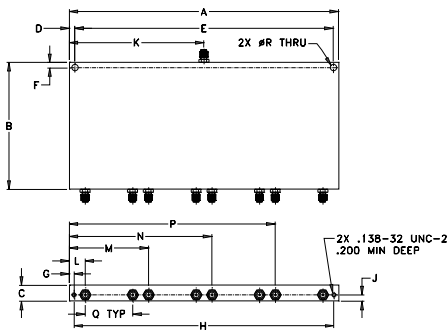
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	2W max.

Permanent damage may occur if any of these limits are exceeded.

Coaxial Connections

SUM PORT	S
PORT 1,2,3,4,5,6,7,8	1,2,3,4,5,6,7,8

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	wt
8.50	4.00	.50	.170	8.160	.170	.150	8.200	.190	4.25	.50	2.50	4.50	6.50	1.50	.201	grams
215.90	101.60	12.70	4.32	208.26	4.32	3.81	208.28	4.83	107.95	12.70	63.50	114.30	165.10	38.10	5.11	400

Features

- wideband, 300 to 1000 MHz
- high isolation, 27 dB typ.
- good input VSWR, 1.2 typ.
- good output VSWR, 1.1 typ.
- rugged shielded case
- up to 10W power input as splitter

Applications

- cellular
- VHF/UHF
- instrumentation
- signal processing

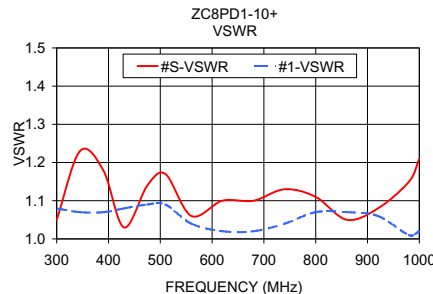
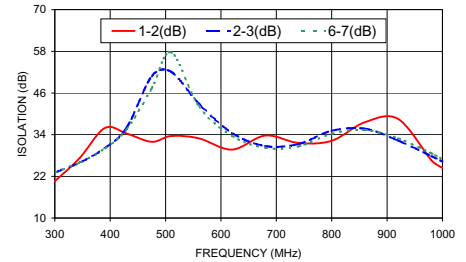
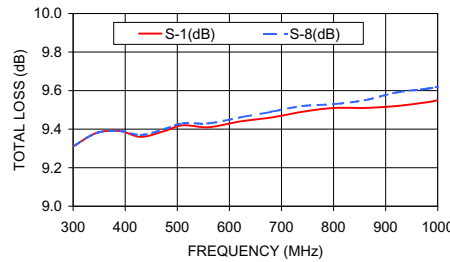
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 9.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
	Typ.	Min.	Typ.	Max.		
$f_c - f_u$					Max.	Max.
300-1000	27	17	0.6	1.4		0.7

Typical Performance Data

Freq. (MHz)	Total Loss ¹ (dB)						Amplitude Unbalance (dB)	Isolation (dB)				VSWR S	VSWR 1	VSWR 8
	S-1	S-2	S-3	S-4	S-6	S-8		1-2	2-3	3-4	6-7			
300.00	9.31	9.30	9.36	9.37	9.34	9.31	0.07	20.61	23.10	20.42	23.07	1.05	1.08	1.08
345.00	9.38	9.37	9.43	9.43	9.42	9.38	0.06	27.30	25.96	27.07	25.96	1.23	1.07	1.06
390.00	9.39	9.38	9.44	9.44	9.44	9.39	0.07	35.91	30.09	34.51	30.00	1.18	1.07	1.06
430.00	9.36	9.36	9.43	9.43	9.43	9.37	0.07	34.32	36.09	32.74	35.61	1.03	1.08	1.07
475.00	9.39	9.39	9.47	9.47	9.47	9.40	0.08	31.94	50.81	31.34	47.36	1.14	1.09	1.08
510.00	9.42	9.42	9.51	9.51	9.51	9.43	0.09	33.62	52.15	33.67	57.74	1.17	1.09	1.07
560.00	9.41	9.41	9.51	9.51	9.51	9.43	0.10	32.96	42.98	33.57	42.21	1.06	1.04	1.03
620.00	9.44	9.44	9.55	9.54	9.56	9.46	0.12	29.71	34.51	29.42	33.67	1.10	1.02	1.04
680.00	9.46	9.47	9.60	9.58	9.60	9.49	0.14	33.76	30.75	32.26	30.23	1.10	1.02	1.04
740.00	9.49	9.50	9.64	9.62	9.65	9.52	0.16	31.62	31.30	31.95	30.62	1.13	1.04	1.05
800.00	9.51	9.52	9.68	9.65	9.68	9.53	0.17	32.25	35.12	34.26	34.25	1.11	1.07	1.08
860.00	9.51	9.54	9.71	9.68	9.73	9.55	0.22	37.61	35.72	39.24	35.38	1.05	1.07	1.07
920.00	9.52	9.55	9.76	9.73	9.78	9.59	0.26	38.54	32.31	47.66	32.97	1.08	1.06	1.06
980.00	9.54	9.57	9.81	9.77	9.84	9.61	0.29	26.62	27.83	28.07	28.63	1.15	1.01	1.02
1000.00	9.55	9.58	9.83	9.79	9.87	9.62	0.31	24.44	26.28	25.25	26.95	1.21	1.02	1.03

ZC8PD1-10+ 1. Total Loss = Insertion Loss + 9dB splitter loss.



electrical schematic



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