

DC Pass

Power Splitter/Combiner

ZC8PD1-10-S+

8 Way-0° 50Ω 300 to 1000 MHz



Generic photo used for illustration purposes only

CASE STYLE: DE749

Connectors	Model
SMA	ZC8PD1-10-S+

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Maximum Ratings

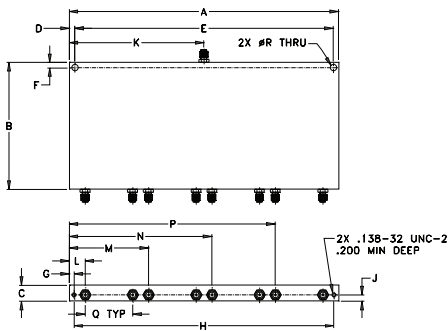
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	2W max.
DC Current	1.2A(150mA for each port)

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	
8.50	4.00	.50	.170	8.160	.170	.150	8.200	
215.90	101.60	12.70	4.32	207.26	4.32	3.81	208.28	
J	K	L	M	N	P	Q	R	wt
.190	4.25	.50	2.50	4.50	6.50	1.50	.201	grams
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

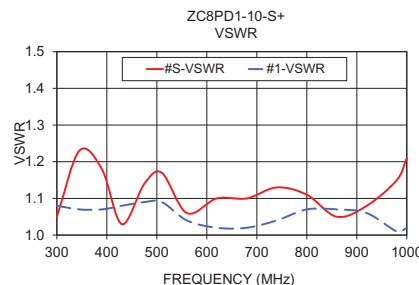
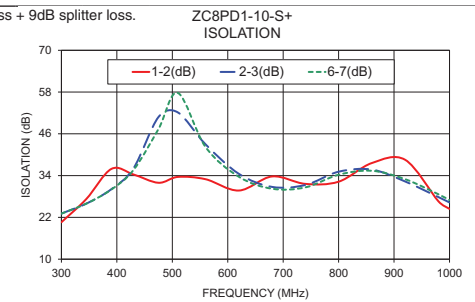
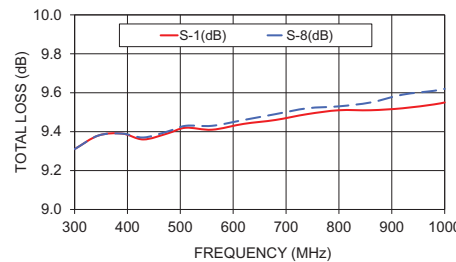
Electrical Specifications

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	8.0	0.7

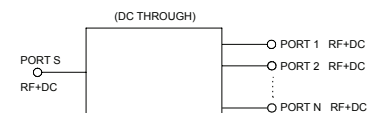
Typical Performance Data

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



electrical schematic



Notes

- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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