

Power Splitter/Combiner

8 Way-0° 50Ω 800 to 900 MHz

Maximum Ratings

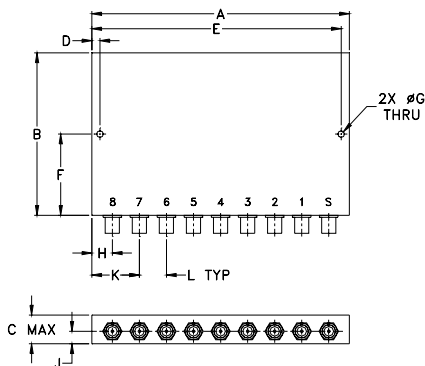
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.875W max.
DC Current	3.2A(400mA for each port)

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
4.76	3.00	.53	.150	4.610	1.500
120.90	76.20	13.46	3.81	117.09	38.10
G	H	J	K	L	wt
.125	.38	.25	.88	.50	grams
3.18	9.65	6.35	22.35	12.70	201

Features

- low insertion loss, 0.4 dB typ.
- high isolation, 30 dB typ.
- up to 10W power input as splitter
- rugged shielded case

Applications

- cellular
- communication systems
- signal processing

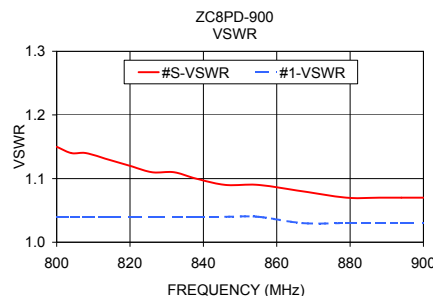
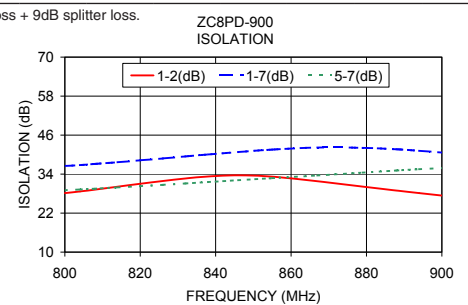
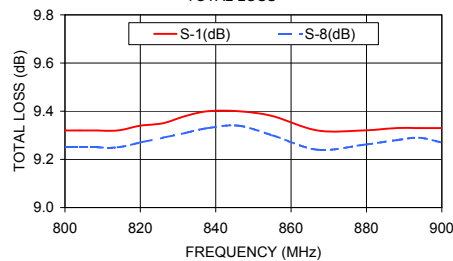
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 9.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
f_L - f_U	Typ.	Min.	Typ.	Max.	Max.	Max.
800-900	30	20	0.4	0.7	5.0	0.4

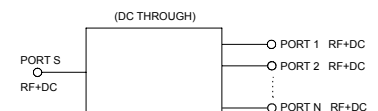
Typical Performance Data

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	1-7	3-4	5-7			
800.00	9.32	9.31	9.33	9.30	9.25	9.25	0.16	28.16	36.50	25.78	29.05	1.15	1.04	1.05
804.00	9.32	9.31	9.34	9.30	9.26	9.25	0.24	28.68	36.78	26.24	29.29	1.14	1.04	1.05
808.00	9.32	9.31	9.34	9.30	9.26	9.25	0.26	29.24	37.14	26.70	29.51	1.14	1.04	1.05
814.00	9.32	9.33	9.34	9.31	9.26	9.25	0.24	30.14	37.66	27.47	29.90	1.13	1.04	1.05
820.00	9.34	9.33	9.36	9.32	9.27	9.27	0.09	31.02	38.25	28.33	30.29	1.12	1.04	1.04
826.00	9.35	9.35	9.38	9.35	9.30	9.29	0.09	31.89	38.81	29.19	30.69	1.11	1.04	1.04
832.00	9.38	9.38	9.41	9.37	9.33	9.31	0.10	32.66	39.46	30.23	31.12	1.11	1.04	1.04
838.00	9.40	9.40	9.44	9.40	9.34	9.33	0.11	33.27	40.03	31.29	31.56	1.10	1.04	1.04
846.00	9.40	9.41	9.44	9.40	9.35	9.34	0.10	33.63	40.79	32.70	32.13	1.09	1.04	1.04
855.00	9.38	9.37	9.41	9.37	9.31	9.30	0.11	33.23	41.55	33.75	32.77	1.09	1.04	1.04
867.00	9.32	9.32	9.35	9.31	9.26	9.24	0.11	31.80	42.17	33.40	33.59	1.08	1.03	1.04
879.00	9.32	9.32	9.37	9.31	9.27	9.26	0.11	30.15	42.09	33.02	34.47	1.07	1.03	1.03
888.00	9.33	9.35	9.40	9.33	9.28	9.28	0.12	28.93	41.64	31.55	35.13	1.07	1.03	1.03
894.00	9.33	9.34	9.41	9.34	9.27	9.29	0.13	28.16	41.19	30.80	35.51	1.07	1.03	1.03
900.00	9.33	9.34	9.42	9.34	9.27	9.27	0.15	27.41	40.63	30.00	35.87	1.07	1.03	1.03

ZC8PD-900 1. Total Loss = Insertion Loss + 9dB splitter loss.



electrical schematic

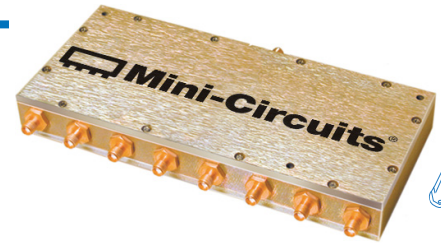


Notes

- A. 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.
 B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
 C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp



ZC8PD-900



CASE STYLE: AB186

Connectors	Model
SMA	ZC8PD-900-S