

Coaxial

Power Splitter/Combiner

ZC8PD-900

8 Way-0° 50Ω 800 to 900 MHz

Maximum Ratings

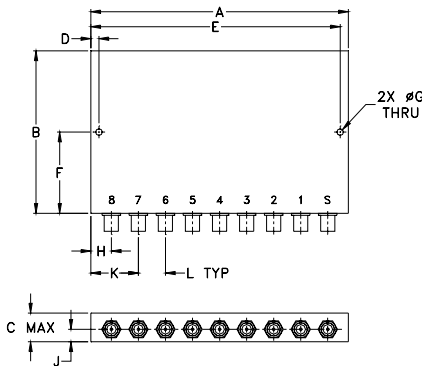
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.875W max.

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

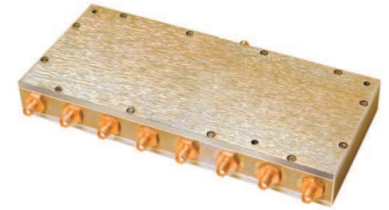
G	H	J	K	L	wt
.125	.38	.25	.88	.50	grams
3.18	9.65	6.35	22.35	12.70	201

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



CASE STYLE: AB186

Connectors	Model	Price	Qty.
SMA	ZC8PD-900-S	\$158.95	(1-9)

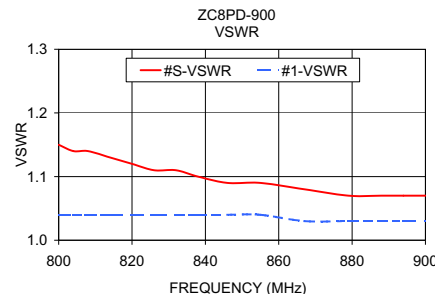
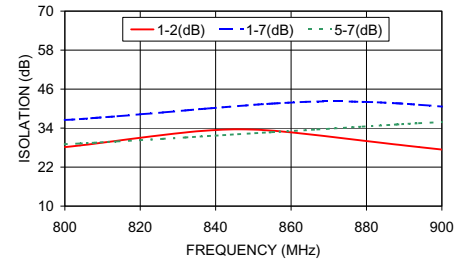
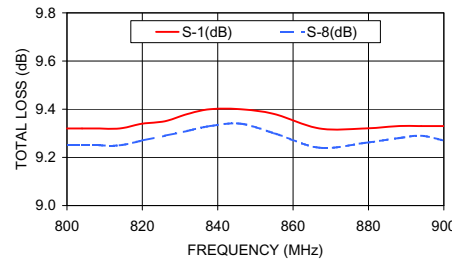
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 9.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
	Typ.	Min.	Typ.	Max.	Max.	Max.
$f_c - f_u$						
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

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



electrical schematic



Mini-Circuits®
 ISO 9001 ISO 14001 AS 9100 CERTIFIED
 IFIRF MICROWAVE COMPONENTS

For detailed performance specs & shopping online see web site

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