

# Coaxial Power Splitter/Combiner

## ZN3PD-900

3 Way-0° 50Ω 800 to 900 MHz

### Maximum Ratings

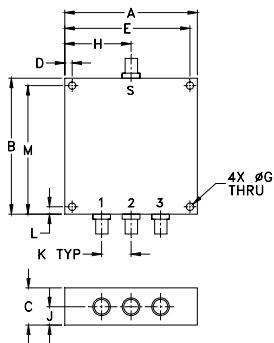
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.375W max.

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

### Coaxial Connections

SUM PORT	S
PORT 1	1
PORT 2	2
PORT 3	3

### Outline Drawing



### Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
2.25	2.30	.63	.125	2.125	-	.125
57.15	58.42	16.00	3.18	53.98	-	3.18
H	J	K	L	M	wt	
1.13	.31	.500	.125	2.175	grams	
28.70	7.87	12.70	3.18	55.25	94	

### Features

- low insertion, 0.2 dB typ.
- high isolation, 30 dB typ.
- excellent amplitude unbalance, 0.4 dB typ.
- excellent VSWR, 1.09:1 typ.
- up to 10W power input as splitter
- rugged shielded case

### Applications

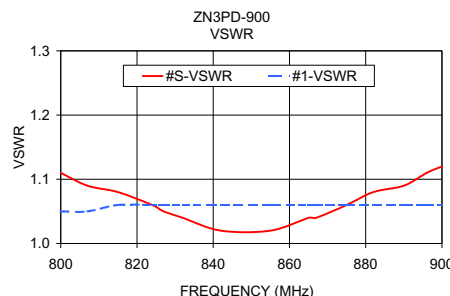
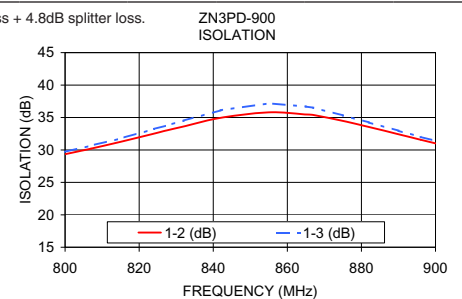
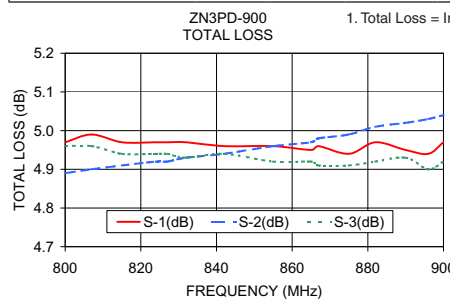
- UHF
- instrumentation
- cellular

### Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 4.8 dB		AMPLITUDE UNBALANCE (dB)	VSWR (:1)			
	Typ.	Min.	Typ.	Max.		S		OUT	
800-900	30	20	0.2	0.4	0.5	Typ.	Max.	Typ.	Max.

### Typical Performance Data

Freq. (MHz)	Total Loss <sup>1</sup> (dB)			Amp. Unbal. (dB)	Isolation (dB)		VSWR S	VSWR 1	VSWR 2	VSWR 3
	S-1	S-2	S-3		1-2	1-3				
800.00	4.97	4.89	4.96	0.08	29.34	29.71	1.11	1.05	1.05	1.06
807.00	4.99	4.90	4.96	0.10	30.20	30.67	1.09	1.05	1.05	1.06
815.00	4.97	4.91	4.94	0.07	31.25	31.77	1.08	1.06	1.05	1.06
824.00	4.97	4.92	4.94	0.05	32.52	33.23	1.06	1.06	1.05	1.06
827.00	4.97	4.92	4.94	0.05	32.95	33.71	1.05	1.06	1.05	1.06
832.00	4.97	4.93	4.93	0.05	33.62	34.51	1.04	1.06	1.05	1.07
842.00	4.96	4.94	4.94	0.02	34.95	36.11	1.02	1.06	1.04	1.07
855.00	4.96	4.96	4.92	0.04	35.80	37.18	1.02	1.06	1.04	1.07
865.00	4.95	4.97	4.92	0.05	35.47	36.69	1.04	1.06	1.04	1.07
867.00	4.96	4.98	4.91	0.06	35.39	36.51	1.04	1.06	1.04	1.07
875.00	4.94	4.99	4.91	0.08	34.47	35.32	1.06	1.06	1.04	1.07
882.00	4.97	5.01	4.92	0.08	33.54	34.24	1.08	1.06	1.04	1.07
890.00	4.95	5.02	4.93	0.09	32.42	32.96	1.09	1.06	1.04	1.07
896.00	4.94	5.03	4.90	0.13	31.57	32.01	1.11	1.06	1.05	1.07
900.00	4.97	5.04	4.92	0.12	31.01	31.40	1.12	1.06	1.05	1.07



### electrical schematic



For detailed performance specs & shopping online see web site

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine [minicircuits.com](http://www.minicircuits.com) Provides ACTUAL Data Instantly at [minicircuits.com](http://www.minicircuits.com)

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet 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](http://www.minicircuits.com/MCLStore/terms.jsp).

REV. A  
M127604  
ZN3PD-900  
HY/TD/CP/AM  
100616