

Power Splitter/Combiner

ZN3PD-900

3 Way-0° 50Ω 800 to 900 MHz

Maximum Ratings

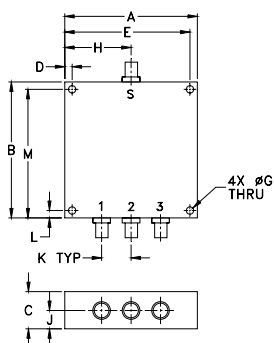
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.375W max.
DC Current	1.2A (400 mA for each port)

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

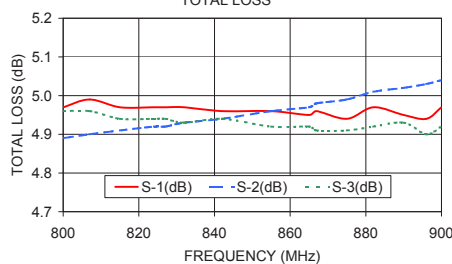
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 4.8 dB		AMPLITUDE UNBALANCE (dB)	VSWR (:1)			
f _L -f _U	Typ.	Min.	Typ.	Max.	Max.	S		OUT	
						Typ.	Max.	Typ.	Max.
800-900	30	20	0.2	0.4	0.5	1.09	1.3	1.09	1.3

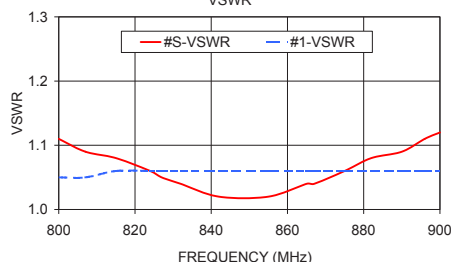
Typical Performance Data

Freq. (MHz)	Total Loss ¹ (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

ZN3PD-900
TOTAL LOSS

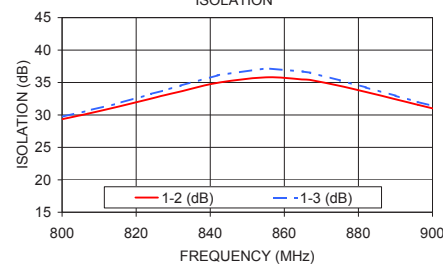


ZN3PD-900
VSWR

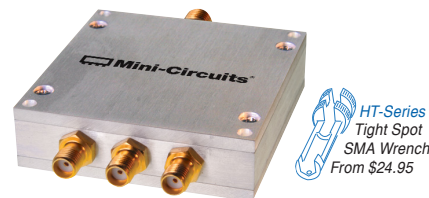
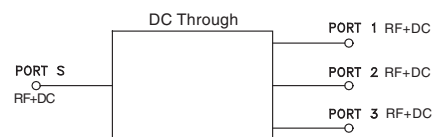


1. Total Loss = Insertion Loss + 4.8dB splitter loss.

ZN3PD-900
ISOLATION



electrical schematic



CASE STYLE: UU181
Connectors Model
SMA ZN3PD-900-S

+RoHS Compliant

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

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.
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