

Power Splitter/Combiner

ZN3PD-900W

3 Way-0° 50Ω 650 to 1050 MHz

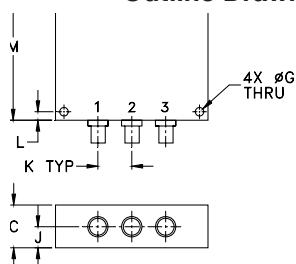
Maximum Ratings

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)

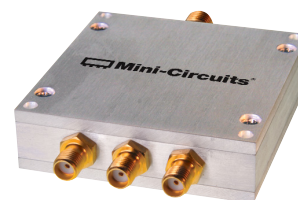
A	B	C	D	E	F	G
2.25	2.30	.63	.125	2.125	—	.125
57.15	58.42	16.00	3.18	53.98	—	3.18
H	J	K	L	M	wt	
1.13	.31	.500	.125	2.175	grams	94
28.70	7.87	12.70	3.18	55.25		

Features

- low insertion loss, 0.3 dB typ.
- good isolation, 22 dB typ.
- excellent VSWR
- up to 10W power input as splitter
- rugged shielded case

Applications

- instrumentation
- cellular
- communications systems



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

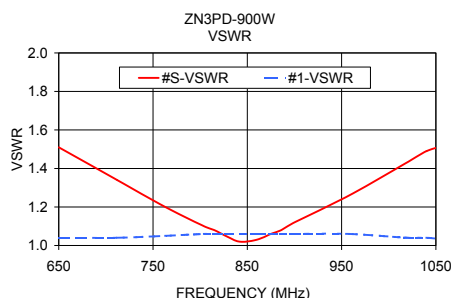
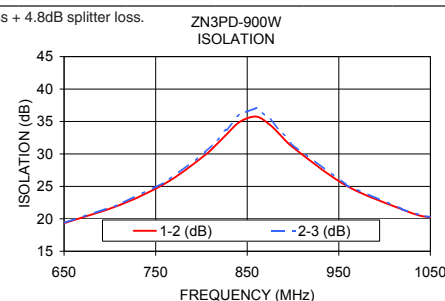
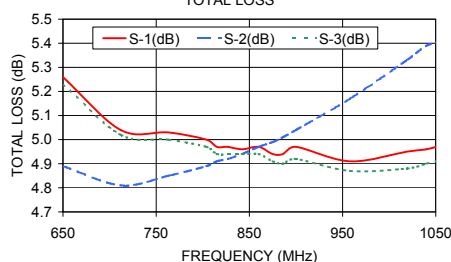
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 4.8 dB		AMPLITUDE UNBALANCE (dB)	VSWR (:1)			
						S		OUT	
	Typ.	Min.	Typ.	Max.	Max.	Typ.	Max.	Typ.	Max.
f _L -f _U									
650-1050	22	15	0.3	0.8	0.8	1.09	1.8	1.09	1.3

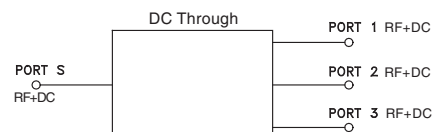
Typical Performance Data

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	2-3				
650.00	5.26	4.89	5.23	0.37	19.32	19.35	1.51	1.04	1.03	1.04
712.00	5.04	4.81	5.02	0.23	22.19	22.30	1.34	1.04	1.04	1.04
763.00	5.03	4.85	5.00	0.18	25.67	25.85	1.20	1.05	1.05	1.05
804.00	5.00	4.89	4.97	0.10	29.83	30.23	1.10	1.06	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
827.00	4.97	4.92	4.94	0.05	32.95	33.71	1.05	1.06	1.05	1.06
842.00	4.96	4.94	4.94	0.02	34.95	36.11	1.02	1.06	1.04	1.07
860.00	4.97	4.97	4.94	3.00	35.75	37.11	1.03	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
886.00	4.94	5.01	4.90	0.11	32.95	33.56	1.08	1.06	1.04	1.07
900.00	4.97	5.04	4.92	0.12	31.01	31.40	1.12	1.06	1.05	1.07
958.00	4.91	5.17	4.87	0.30	25.13	25.23	1.26	1.06	1.06	1.06
1019.00	4.95	5.33	4.88	0.44	21.46	21.49	1.43	1.04	1.10	1.05
1040.00	4.96	5.39	4.90	0.49	20.45	20.50	1.49	1.04	1.11	1.04
1060.00	4.98	5.41	4.92	0.50	20.06	20.07	1.52	1.03	1.12	1.04

ZN3PD-900W TOTAL LOSS
1. Total Loss = Insertion Loss + 4.8dB 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.
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