

# Power Splitter/Combiner

## ZN2PD-920W+

2 Way-0° 50Ω 700 to 1050 MHz



### Maximum Ratings

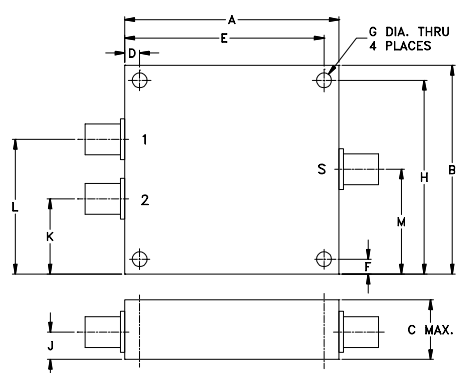
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.125W max.

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

### Coaxial Connections

SUM PORT	S
PORT 1	1
PORT 2	2

### Outline Drawing



### Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	
1.80	1.75	.66	.125	1.675	.125	.125	
45.72	44.45	16.76	3.18	42.55	3.18	3.18	
H	J	K	L	M		wt	
1.625	.31	.63	1.13	.88		grams	
41.28	7.87	16.00	28.70	22.35		34	

### Features

- low insertion loss, 0.15 dB typ.
- good isolation, 22 dB typ.
- up to 10W power input as a splitter
- excellent amplitude unbalance, 0.1 dB typ.
- excellent VSWR, 1.1:1 typ.
- rugged shielded case

### Applications

- UHF
- cellular
- communications systems
- instrumentation

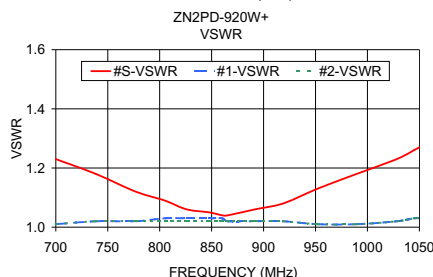
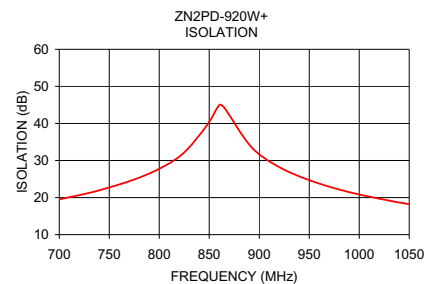
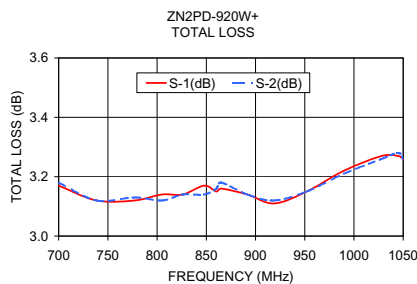
### Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)	
	Typ.	Min.	Typ.	Max.			S	OUT
$f_L$ - $f_U$					Max.	Max.	Typ.	Max.
700-1050	22	15	0.15	0.5	3	0.3	1.20 1.50	1.04 1.20

### Typical Performance Data

Frequency (MHz)	Total Loss <sup>1</sup> (dB)		Amplitude Unbalance (dB)	Isolation (dB)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2					
700.00	3.17	3.18	0.01	19.51	1.23	1.01	1.01
738.50	3.12	3.12	0.01	21.84	1.18	1.02	1.02
777.00	3.12	3.13	0.01	25.07	1.12	1.02	1.02
805.00	3.14	3.12	0.02	28.48	1.09	1.03	1.02
826.00	3.14	3.14	0.00	32.45	1.06	1.03	1.02
847.88	3.17	3.14	0.03	39.57	1.05	1.03	1.02
860.13	3.15	3.16	0.01	45.00	1.04	1.03	1.02
865.38	3.16	3.18	0.02	44.13	1.04	1.02	1.02
891.63	3.14	3.14	0.00	33.77	1.06	1.02	1.02
918.75	3.11	3.12	0.01	28.40	1.08	1.02	1.02
952.00	3.15	3.15	0.00	24.51	1.13	1.01	1.01
989.63	3.22	3.21	0.01	21.49	1.18	1.01	1.01
1028.13	3.27	3.26	0.01	19.27	1.23	1.02	1.02
1044.75	3.27	3.28	0.00	18.46	1.26	1.03	1.03
1050.00	3.26	3.26	0.00	18.20	1.27	1.03	1.03

1. Total Loss = Insertion Loss + 3dB splitter loss.



### electrical schematic



For detailed performance specs & shopping online see web site



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).

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