

DC Pass

# Power Splitter/Combiner

ZN4PD-920W-S+

4 Way-0° 50Ω 670 to 1000 MHz

## Maximum Ratings

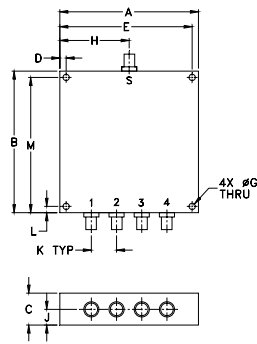
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.375W max.
DC Current	2.0 A (500mA for each port)

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

## Coaxial Connections

SUMPORT	S
PORT 1	1
PORT 2	2
PORT 3	3
PORT 4	4

## Outline Drawing



## Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
2.75	2.80	.63	.125	2.625	-	.125
69.85	71.12	16.00	3.18	66.68	-	3.18
H	J	K	L	M	wt	
1.38	.31	.500	.125	2.675	grams	
35.05	7.87	12.70	3.18	67.95	140	

## Features

- wideband, 670 to 1000 MHz
- rugged, shielded case
- up to 10W power output as splitter
- excellent output VSWR, 1.07:1 typ.

## Applications

- UHF
- cellular
- receivers/transmitters

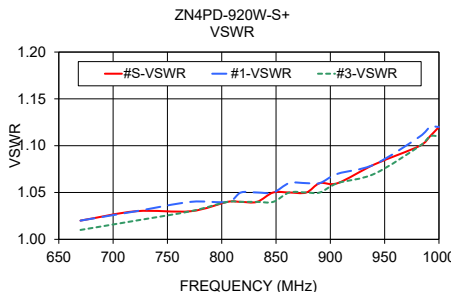
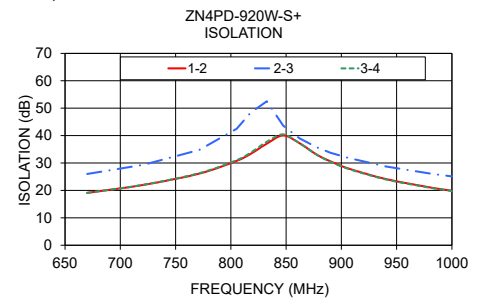
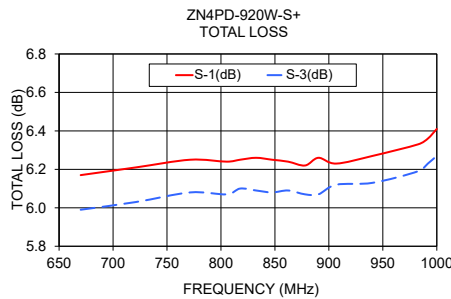
## Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 6 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)			
	Typ.	Min.	Typ.	Max.			S		OUT	
$f_L$ - $f_U$					Max.	Max.	Typ.	Max.	Typ.	Max.
670-1000	22	15	0.3	0.6	3	0.2	1.2	1.6	1.07	1.25

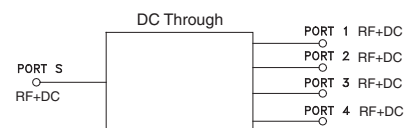
## Typical Performance Data

Freq. (MHz)	Total Loss <sup>1</sup> (dB)				Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 2	VSWR 3	VSWR 4
	S-1	S-2	S-3	S-4		1-2	2-3	3-4						
	670.00	6.17	6.02	5.99		6.15	0.18	19.09						
721.15	6.21	6.06	6.03	6.17	0.18	22.02	29.36	22.08	1.11	1.03	1.03	1.02	1.02	1.02
771.48	6.25	6.11	6.08	6.22	0.16	26.13	34.77	26.29	1.11	1.03	1.04	1.03	1.03	1.03
805.30	6.24	6.09	6.07	6.21	0.16	30.79	42.50	31.05	1.09	1.04	1.04	1.04	1.04	1.04
817.68	6.25	6.10	6.10	6.23	0.15	33.27	48.28	33.71	1.08	1.04	1.05	1.04	1.04	1.04
832.53	6.26	6.11	6.09	6.23	0.17	37.05	52.53	37.74	1.06	1.04	1.05	1.04	1.04	1.04
847.38	6.25	6.11	6.08	6.23	0.17	40.05	43.62	40.44	1.04	1.05	1.05	1.04	1.04	1.05
862.23	6.24	6.10	6.09	6.21	0.15	37.20	38.99	37.17	1.02	1.05	1.06	1.05	1.05	1.04
877.90	6.22	6.07	6.07	6.19	0.16	33.01	35.69	32.93	1.02	1.05	1.06	1.05	1.05	1.05
890.28	6.26	6.12	6.07	6.22	0.19	30.58	33.71	30.42	1.04	1.06	1.06	1.05	1.05	1.05
906.78	6.23	6.11	6.12	6.23	0.12	27.94	31.79	27.79	1.07	1.06	1.07	1.06	1.06	1.06
940.60	6.27	6.13	6.13	6.27	0.14	24.11	28.71	23.96	1.15	1.08	1.08	1.08	1.07	1.07
982.68	6.33	6.21	6.19	6.32	0.13	20.91	26.00	20.79	1.27	1.10	1.11	1.10	1.10	1.10
991.75	6.36	6.25	6.23	6.34	0.13	20.35	25.54	20.25	1.30	1.11	1.12	1.11	1.11	1.11
1000.00	6.41	6.28	6.27	6.38	0.14	19.87	25.10	19.76	1.33	1.12	1.12	1.12	1.11	1.11

1. Total Loss = Insertion Loss + 6dB splitter loss.



## Electrical Schematic



## Notes

- 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.
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