

Power Splitter/Combiner

4 Way-0° 50Ω 800 to 920 MHz

ZN4PD-920-S+



Generic photo used for illustration purposes only
CASE STYLE: UU182

Connectors Model
SMA ZN4PD-920-S+

+RoHS Compliant

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

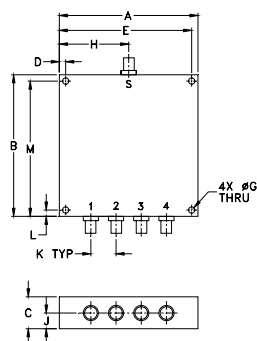
Maximum Ratings

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	grams	140

Features

- high isolation, 30dB typ.
- excellent output VSWR, 1.07:1
- rugged, shielded case
- up to 10W power input as splitter

Applications

- cellular
- GSM base station
- receivers/transmitters

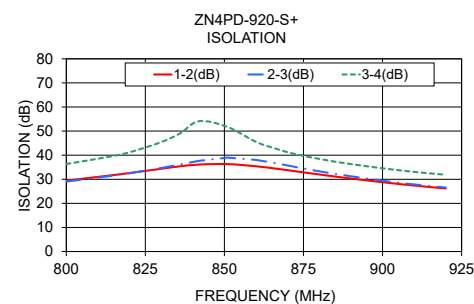
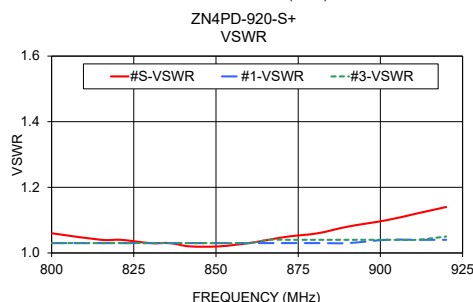
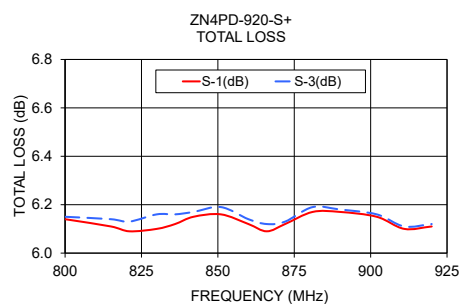
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 6 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)			
$f_L - f_U$	Typ.	Min.	Typ.	Max.	Max.	Max.	S		OUT	
							Typ.	Max.	Typ.	Max.
800-920	30	20	0.25	0.5	2	0.2	1.08	1.25	1.07	1.25

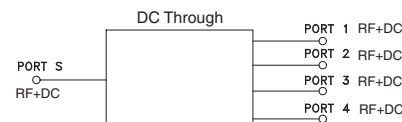
Typical Performance Data

Freq. (MHz)	Total Loss ¹ (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						
800.00	6.14	6.14	6.15	6.09	0.06	29.44	29.05	36.32	0.26	1.06	1.03	1.03	1.03	1.02
815.00	6.11	6.11	6.14	6.06	0.08	31.76	31.52	39.70	0.23	1.04	1.03	1.03	1.03	1.02
821.00	6.09	6.12	6.13	6.06	0.08	32.77	32.71	41.58	0.09	1.04	1.03	1.03	1.03	1.02
830.00	6.10	6.10	6.16	6.06	0.10	34.35	34.65	45.42	0.17	1.03	1.03	1.03	1.03	1.02
836.00	6.12	6.11	6.16	6.08	0.08	35.39	36.18	49.06	0.11	1.03	1.03	1.03	1.03	1.02
842.00	6.15	6.15	6.17	6.10	0.08	36.11	37.66	54.12	0.08	1.02	1.03	1.03	1.03	1.02
851.00	6.16	6.14	6.19	6.12	0.07	36.30	38.98	51.70	0.18	1.02	1.03	1.04	1.03	1.02
860.00	6.12	6.11	6.14	6.07	0.06	35.38	38.04	45.52	0.32	1.03	1.03	1.04	1.03	1.02
866.00	6.09	6.10	6.12	6.05	0.07	34.46	36.73	42.80	0.33	1.04	1.03	1.04	1.04	1.02
872.00	6.12	6.11	6.13	6.07	0.06	33.40	35.22	40.57	0.29	1.05	1.03	1.04	1.04	1.03
881.00	6.17	6.15	6.19	6.11	0.08	31.81	33.06	38.21	0.25	1.06	1.03	1.04	1.04	1.03
890.00	6.17	6.18	6.18	6.12	0.06	30.31	31.25	36.31	0.26	1.08	1.03	1.04	1.04	1.03
902.00	6.15	6.14	6.16	6.09	0.07	28.49	29.05	34.23	0.07	1.10	1.04	1.04	1.04	1.03
911.00	6.10	6.10	6.11	6.06	0.06	27.26	27.70	32.93	0.13	1.12	1.04	1.05	1.04	1.03
920.00	6.11	6.11	6.12	6.05	0.08	26.18	26.55	31.88	0.18	1.14	1.04	1.05	1.05	1.04

1. Total Loss = Insertion Loss + 6dB 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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