

Coaxial

# Power Splitter/Combiner

## ZN2PD-9G+

2 Way-0° 50Ω 1700 to 9000 MHz



### Maximum Ratings

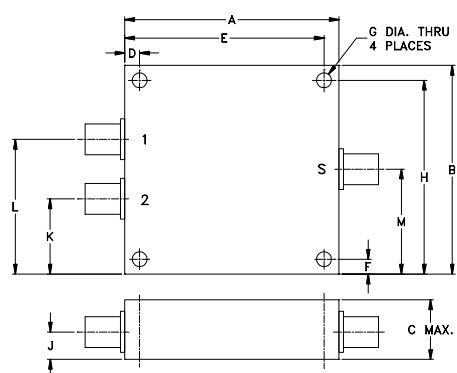
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.125W max.

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

### Coaxial Connections

SUMPORT	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

- very wideband, 1700 to 9000 MHz
- low insertion loss, 0.5 dB typ.
- good isolation, 22 dB typ.
- up to 10W power input as splitter
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 1 deg. typ.
- rugged shielded case

### Applications

- UHF/VHF
- PCS/DCS
- defense & federal communications
- wireless

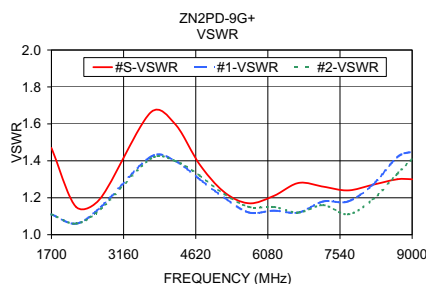
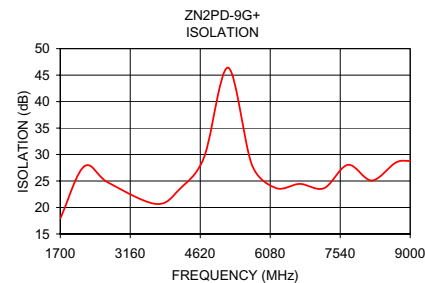
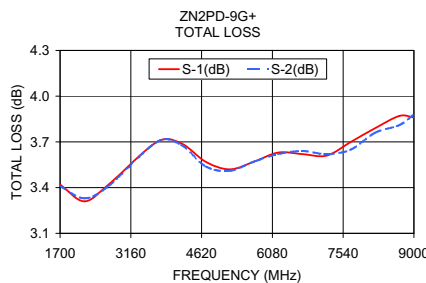
### Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS(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.	Typ.	Max.
1700-9000	22	15	0.5	1.4	4	0.6	—	—	—	—

### Typical Performance Data

Frequency (MHz)	Total Loss <sup>1</sup> (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
1700.00	3.42	3.41	0.01	17.93	0.12	1.47	1.11	1.11
2200.00	3.31	3.33	0.02	27.76	0.12	1.15	1.06	1.06
2700.00	3.42	3.41	0.01	24.71	0.27	1.20	1.15	1.14
3700.00	3.70	3.70	0.00	20.67	0.32	1.66	1.42	1.41
4200.00	3.69	3.68	0.01	23.57	0.43	1.60	1.40	1.40
4700.00	3.57	3.54	0.03	29.47	0.39	1.38	1.30	1.32
5200.00	3.52	3.51	0.01	46.41	0.43	1.23	1.20	1.22
5700.00	3.57	3.57	0.00	28.00	0.49	1.17	1.12	1.15
6200.00	3.63	3.62	0.01	23.68	0.52	1.21	1.13	1.15
6700.00	3.62	3.64	0.02	24.46	0.28	1.28	1.12	1.12
7200.00	3.61	3.62	0.01	23.63	0.44	1.26	1.18	1.16
7700.00	3.70	3.65	0.05	28.05	0.68	1.24	1.18	1.11
8200.00	3.79	3.76	0.03	25.09	0.72	1.27	1.27	1.19
8700.00	3.87	3.81	0.06	28.49	1.10	1.30	1.42	1.33
9000.00	3.86	3.88	0.03	28.80	0.94	1.30	1.45	1.41

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



### electrical schematic



For detailed performance specs & shopping online see web site



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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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