

# Coaxial Power Splitter/Combiner

## ZN4PD-20

4 Way-0° 50Ω 1800 to 2000 MHz



CASE STYLE: UU182

Connectors	Model	Price	Qty.
SMA	ZN4PD-20-S	\$89.95	(1-9)

### Maximum Ratings

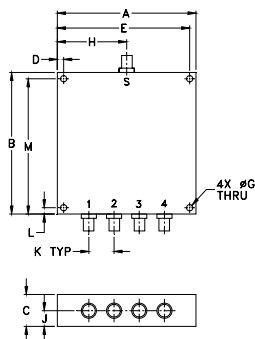
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.375W max.

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, 31 dB typ.
- rugged, shielded case
- up to 10W power input as splitter
- excellent VSWR, 1.10:1 typ.

### Applications

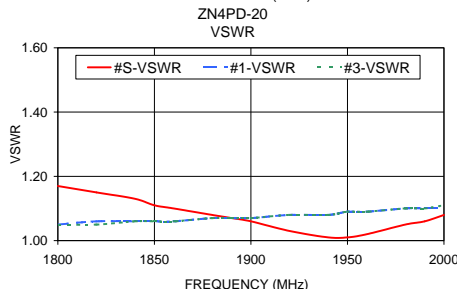
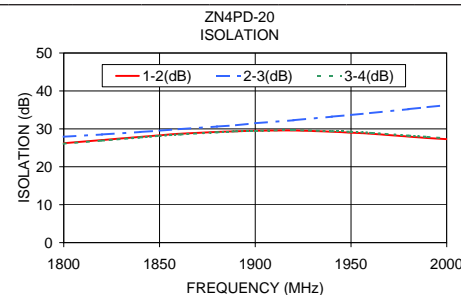
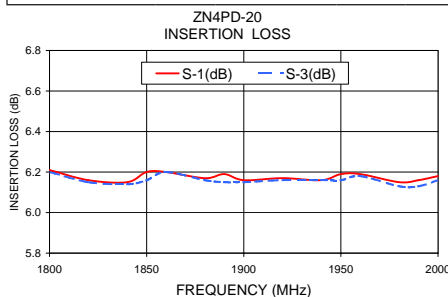
- PCS
- DCS

### Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 6 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
	Typ.	Min.	Typ.	Max.	Max.	Max.
$f_L$ - $f_U$						
1800-2000	31	20	0.3	0.7	4	0.5

### Typical Performance Data

Freq. (MHz)	Insertion Loss (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						
1800.00	6.21	6.19	6.20	6.20	0.02	26.21	27.93	26.08	0.43	1.17	1.05	1.06	1.05	1.05
1820.00	6.16	6.15	6.15	6.13	0.03	27.05	28.52	26.90	0.34	1.15	1.06	1.06	1.05	1.06
1840.00	6.15	6.13	6.14	6.13	0.02	27.87	29.18	27.73	0.46	1.13	1.06	1.06	1.06	1.06
1850.00	6.20	6.17	6.16	6.17	0.04	28.29	29.52	28.16	0.43	1.11	1.06	1.06	1.06	1.07
1860.00	6.20	6.18	6.20	6.19	0.02	28.69	29.91	28.49	0.51	1.10	1.06	1.06	1.06	1.07
1880.00	6.17	6.16	6.16	6.16	0.02	29.18	30.60	29.09	0.32	1.08	1.07	1.07	1.07	1.07
1890.00	6.19	6.14	6.15	6.15	0.05	29.36	30.96	29.35	0.40	1.07	1.07	1.07	1.07	1.08
1900.00	6.16	6.16	6.15	6.14	0.02	29.51	31.48	29.50	0.35	1.06	1.07	1.07	1.07	1.08
1920.00	6.17	6.16	6.16	6.15	0.02	29.57	32.28	29.63	0.34	1.03	1.08	1.07	1.08	1.08
1940.00	6.16	6.16	6.16	6.16	0.00	29.25	33.22	29.38	0.50	1.01	1.08	1.08	1.08	1.09
1950.00	6.19	6.17	6.16	6.16	0.02	28.99	33.67	29.23	0.36	1.01	1.09	1.08	1.09	1.09
1960.00	6.19	6.18	6.18	6.17	0.02	28.73	34.16	28.94	0.38	1.02	1.09	1.08	1.09	1.10
1980.00	6.15	6.14	6.13	6.12	0.03	27.97	35.19	28.21	0.38	1.05	1.10	1.09	1.10	1.10
1990.00	6.16	6.14	6.13	6.14	0.03	27.59	35.74	27.87	0.38	1.06	1.10	1.09	1.10	1.11
2000.00	6.18	6.16	6.16	6.15	0.03	27.28	36.26	27.48	0.38	1.08	1.10	1.09	1.11	1.11



### electrical schematic



**Mini-Circuits®**  
 ISO 9001 ISO 14001 AS 9100 CERTIFIED  
 IFIRF MICROWAVE COMPONENTS

For detailed performance specs & shopping online see web site

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at [minicircuits.com](http://minicircuits.com)

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).

REV. OR  
 M96470  
 ZN4PD-20  
 HY/TD/CP/AM  
 090827