

Coaxial

# Power Splitter/Combiner

ZN2PD-20+  
ZN2PD-20

2 Way-0° 50Ω 750 to 2000 MHz



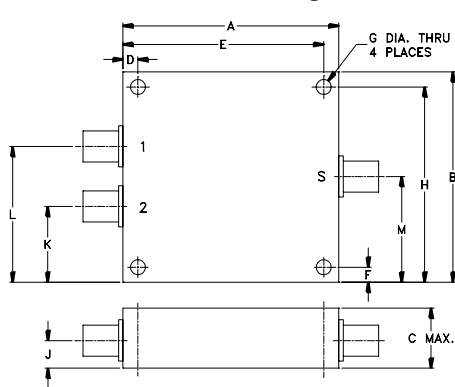
## Maximum Ratings

|                             |                |
|-----------------------------|----------------|
| Operating Temperature       | -55°C to 100°C |
| Storage Temperature         | -55°C to 100°C |
| Power Input (as a splitter) | 5W max.        |
| Internal Dissipation        | 0.725W max.    |

## Coaxial Connections

|         |   |
|---------|---|
| SUPPORT | 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

- wideband, 750 to 2000 MHz
- low insertion loss, 0.2 dB typ.
- good isolation, 23 dB typ.
- very good input VSWR, 1.18:1 typ.
- excellent output VSWR, 1.07:1 typ.
- up to 5W power input

## Applications

- VSAT
- communications systems
- instrumentations

CASE STYLE: VVV180

| Connectors | Model         | Price   | Qty.  |
|------------|---------------|---------|-------|
| SMA        | ZN2PD-20-S(+) | \$67.95 | (1-9) |

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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

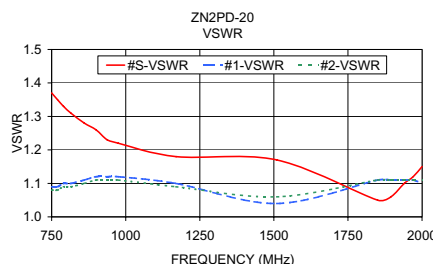
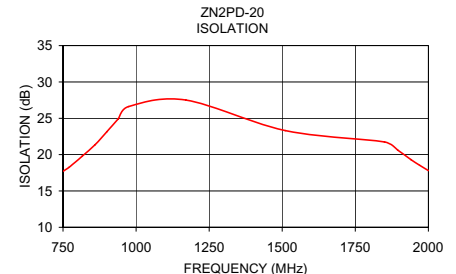
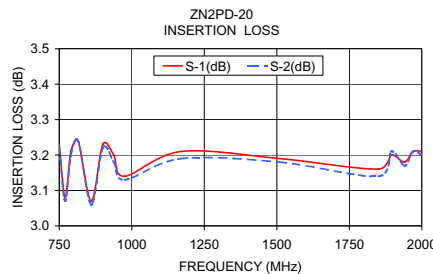
## Splitter Electrical Specifications

| FREQ. RANGE (MHz)              | ISOLATION (dB) |      |      |      |      |      | INSERTION LOSS (dB) ABOVE 3.0 dB |      | PHASE UNBALANCE (Degrees) | AMPLITUDE UNBALANCE (dB) | VSWR (:1) |      |      |      |
|--------------------------------|----------------|------|------|------|------|------|----------------------------------|------|---------------------------|--------------------------|-----------|------|------|------|
|                                | L              |      | M    |      | U    |      | Typ.                             | Max. |                           |                          | S         | OUT  |      |      |
| f <sub>L</sub> -f <sub>U</sub> | Typ.           | Min. | Typ. | Min. | Typ. | Min. | Typ.                             | Max. | Max.                      | Typ.                     | Max.      | Typ. | Max. |      |
| 750-2000                       | 18             | 15   | 25   | 20   | 18   | 15   | 0.2                              | 0.5  | 4                         | 0.3                      | 1.16      | 1.5  | 1.10 | 1.35 |

L = 750-875 MHz M = 875-1850 MHz U = 1850-2000 MHz

## Typical Performance Data

| Frequency (MHz) | Insertion Loss (dB) |      | Amplitude Unbalance (dB) | Isolation (dB) | Phase Unbalance (deg.) | VSWR S | VSWR 1 | VSWR 2 |
|-----------------|---------------------|------|--------------------------|----------------|------------------------|--------|--------|--------|
|                 | S-1                 | S-2  |                          |                |                        |        |        |        |
| 750.00          | 3.23                | 3.22 | 0.01                     | 17.70          | 0.01                   | 1.37   | 1.09   | 1.08   |
| 770.00          | 3.08                | 3.07 | 0.01                     | 18.24          | 0.08                   | 1.35   | 1.09   | 1.08   |
| 790.00          | 3.21                | 3.20 | 0.01                     | 18.90          | 0.12                   | 1.33   | 1.10   | 1.09   |
| 815.00          | 3.24                | 3.24 | 0.00                     | 19.76          | 0.14                   | 1.31   | 1.10   | 1.09   |
| 860.00          | 3.07                | 3.06 | 0.01                     | 21.37          | 0.02                   | 1.28   | 1.11   | 1.10   |
| 900.00          | 3.23                | 3.22 | 0.01                     | 23.15          | 0.02                   | 1.26   | 1.12   | 1.11   |
| 937.50          | 3.20                | 3.18 | 0.02                     | 24.86          | 0.04                   | 1.23   | 1.12   | 1.11   |
| 975.00          | 3.14                | 3.13 | 0.01                     | 26.62          | 0.09                   | 1.22   | 1.12   | 1.11   |
| 1170.00         | 3.21                | 3.19 | 0.02                     | 27.51          | 0.05                   | 1.18   | 1.10   | 1.09   |
| 1510.00         | 3.19                | 3.18 | 0.01                     | 23.31          | 0.20                   | 1.17   | 1.04   | 1.06   |
| 1850.00         | 3.16                | 3.14 | 0.02                     | 21.74          | 0.20                   | 1.05   | 1.11   | 1.11   |
| 1895.00         | 3.20                | 3.21 | 0.01                     | 20.63          | 0.25                   | 1.06   | 1.11   | 1.11   |
| 1940.00         | 3.18                | 3.17 | 0.01                     | 19.32          | 0.23                   | 1.10   | 1.11   | 1.11   |
| 1970.00         | 3.21                | 3.21 | 0.00                     | 18.54          | 0.20                   | 1.12   | 1.11   | 1.11   |
| 2000.00         | 3.21                | 3.20 | 0.01                     | 17.80          | 0.24                   | 1.15   | 1.10   | 1.11   |



## electrical schematic

