

# Power Splitter/Combiner ZN2PD-920W-S+

2 Way-0° 50Ω 700 to 1050 MHz



Generic photo used for illustration purposes only

CASE STYLE: VVV180

| Connectors | Model         |
|------------|---------------|
| SMA        | ZN2PD-920W-S+ |

**+RoHS Compliant**

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

## Maximum Ratings

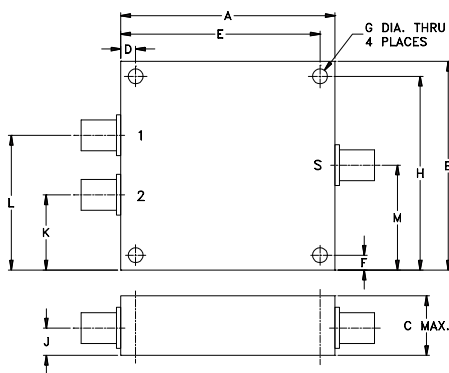
|                             |                              |
|-----------------------------|------------------------------|
| Operating Temperature       | -55°C to 100°C               |
| Storage Temperature         | -55°C to 100°C               |
| Power Input (as a splitter) | 10W max.                     |
| Internal Dissipation        | 0.125W max.                  |
| DC Current                  | 800 mA (400mA for each port) |

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

## Coaxial Connections

|          |   |
|----------|---|
| SUM PORT | 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 |      |      | 65.2  |

## Features

- low insertion loss, 0.15 dB typ.
- good isolation, 22 dB typ.
- up to 10W power input as a splitter
- excellent amplitude unbalance, 0.1 dB typ.
- excellent VSWR, 1.1:1 typ.
- rugged shielded case

## Applications

- UHF
- cellular
- communications systems
- instrumentation

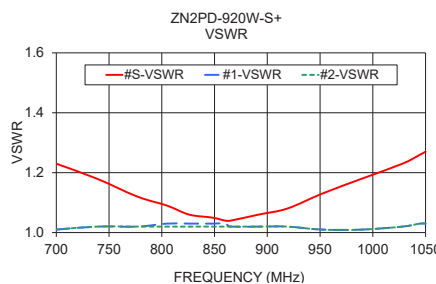
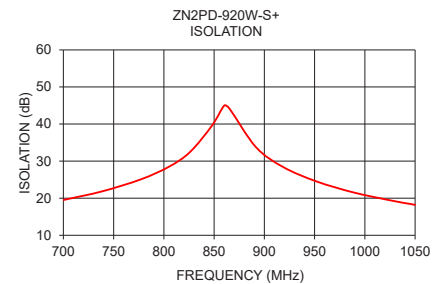
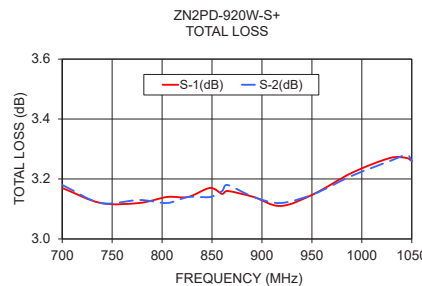
## Electrical Specifications

| FREQ. RANGE (MHz) | ISOLATION (dB) |      | INSERTION LOS (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. |
| 700-1050          | 22             | 15   | 0.15                            | 0.5  | 3                         | 0.3                      | 1.20      | 1.50 |
|                   |                |      |                                 |      |                           |                          | 1.04      | 1.20 |

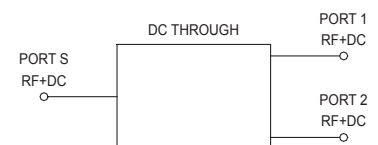
## Typical Performance Data

| Frequency (MHz) | Total Loss <sup>1</sup> (dB) |      | Amplitude Unbalance (dB) | Isolation (dB) | VSWR S | VSWR 1 | VSWR 2 |
|-----------------|------------------------------|------|--------------------------|----------------|--------|--------|--------|
|                 | S-1                          | S-2  |                          |                |        |        |        |
| 700.00          | 3.17                         | 3.18 | 0.01                     | 19.51          | 1.23   | 1.01   | 1.01   |
| 738.50          | 3.12                         | 3.12 | 0.01                     | 21.84          | 1.18   | 1.02   | 1.02   |
| 777.00          | 3.12                         | 3.13 | 0.01                     | 25.07          | 1.12   | 1.02   | 1.02   |
| 805.00          | 3.14                         | 3.12 | 0.02                     | 28.48          | 1.09   | 1.03   | 1.02   |
| 826.00          | 3.14                         | 3.14 | 0.00                     | 32.45          | 1.06   | 1.03   | 1.02   |
| 847.88          | 3.17                         | 3.14 | 0.03                     | 39.57          | 1.05   | 1.03   | 1.02   |
| 860.13          | 3.15                         | 3.16 | 0.01                     | 45.00          | 1.04   | 1.03   | 1.02   |
| 865.38          | 3.16                         | 3.18 | 0.02                     | 44.13          | 1.04   | 1.02   | 1.02   |
| 891.63          | 3.14                         | 3.14 | 0.00                     | 33.77          | 1.06   | 1.02   | 1.02   |
| 918.75          | 3.11                         | 3.12 | 0.01                     | 28.40          | 1.08   | 1.02   | 1.02   |
| 952.00          | 3.15                         | 3.15 | 0.00                     | 24.51          | 1.13   | 1.01   | 1.01   |
| 989.63          | 3.22                         | 3.21 | 0.01                     | 21.49          | 1.18   | 1.01   | 1.01   |
| 1028.13         | 3.27                         | 3.26 | 0.01                     | 19.27          | 1.23   | 1.02   | 1.02   |
| 1044.75         | 3.27                         | 3.28 | 0.00                     | 18.46          | 1.26   | 1.03   | 1.03   |
| 1050.00         | 3.26                         | 3.26 | 0.00                     | 18.20          | 1.27   | 1.03   | 1.03   |

1. Total Loss = Insertion Loss + 3dB 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.  
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