

Coaxial

# Power Splitter/Combiner

2 Way-0° 50Ω 100 to 900 MHz

ZAPD-900-5W+



N-Type version shown  
CASE STYLE: F14

| Connectors | Model          | Price   | Qty.  |
|------------|----------------|---------|-------|
| N-TYPE     | ZAPD-900-5W-N+ | \$64.95 | (1-9) |
| SMA        | ZAPD-900-5W-S+ | \$64.95 | (1-9) |

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

The +Suffix has been added in order to identify 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) | 5W max.        |
| Internal Dissipation        | 1W max.        |

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

## Coaxial Connections

|          |   |
|----------|---|
| SUM PORT | S |
| PORT 1   | 1 |
| PORT 2   | 2 |

## Features

- wideband, 100 to 900 MHz
- low insertion loss, 0.3 dB typ.
- good isolation, 26 dB typ.
- up to 5W power input as splitter
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 1 deg. typ.
- rugged shielded case

## Applications

- VHF/UHF
- communication systems
- instrumentation

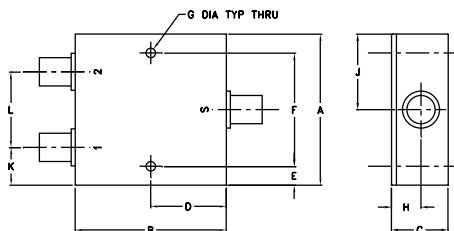
## Splitter Electrical Specifications

| FREQ.<br>RANGE<br>(MHz) | ISOLATION<br>(dB) |      | INSERTION LOSS<br>(dB)<br>ABOVE 3.0 dB |      | PHASE<br>UNBALANCE<br>(Degrees) | AMPLITUDE<br>UNBALANCE<br>(dB) | VSWR<br>(:1) |      |      |      |
|-------------------------|-------------------|------|----------------------------------------|------|---------------------------------|--------------------------------|--------------|------|------|------|
|                         | Typ.              | Min. | Typ.                                   | Max. |                                 |                                | S            |      | OUT  |      |
| $f_L$ - $f_U$           |                   |      |                                        |      | Max.                            | Max.                           | Typ.         | Max. | Typ. | Max. |
| 100-900                 | 23                | 18   | 0.3                                    | 1.0  | 3                               | 0.3                            | 1.15         | 1.5  | 1.22 | 1.5  |

## Typical Performance Data

| Frequency<br>(MHz) | Insertion Loss<br>(dB) |      | Amplitude<br>Unbalance<br>(dB) | Isolation<br>(dB) | VSWR<br>S | VSWR<br>1 | VSWR<br>2 |
|--------------------|------------------------|------|--------------------------------|-------------------|-----------|-----------|-----------|
|                    | S-1                    | S-2  |                                |                   |           |           |           |
| 100.00             | 3.15                   | 3.14 | 0.01                           | 22.80             | 1.16      | 1.27      | 1.27      |
| 130.00             | 3.14                   | 3.13 | 0.01                           | 22.85             | 1.14      | 1.25      | 1.25      |
| 160.00             | 3.15                   | 3.14 | 0.00                           | 22.87             | 1.13      | 1.24      | 1.24      |
| 230.00             | 3.17                   | 3.16 | 0.01                           | 22.70             | 1.11      | 1.20      | 1.20      |
| 300.00             | 3.19                   | 3.18 | 0.01                           | 22.65             | 1.11      | 1.17      | 1.17      |
| 370.00             | 3.21                   | 3.19 | 0.02                           | 22.56             | 1.10      | 1.14      | 1.14      |
| 440.00             | 3.28                   | 3.25 | 0.03                           | 22.84             | 1.09      | 1.11      | 1.11      |
| 510.00             | 3.30                   | 3.27 | 0.03                           | 23.22             | 1.08      | 1.10      | 1.10      |
| 580.00             | 3.37                   | 3.34 | 0.03                           | 24.02             | 1.07      | 1.11      | 1.11      |
| 650.00             | 3.41                   | 3.38 | 0.04                           | 25.31             | 1.07      | 1.14      | 1.14      |
| 720.00             | 3.49                   | 3.44 | 0.05                           | 27.32             | 1.07      | 1.17      | 1.17      |
| 790.00             | 3.56                   | 3.50 | 0.05                           | 29.51             | 1.07      | 1.21      | 1.21      |
| 860.00             | 3.64                   | 3.57 | 0.07                           | 29.70             | 1.10      | 1.25      | 1.25      |
| 924.00             | 3.74                   | 3.66 | 0.09                           | 26.35             | 1.15      | 1.27      | 1.27      |

## Outline Drawing

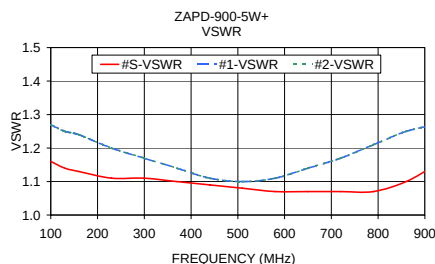
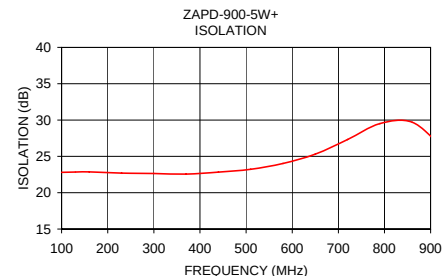
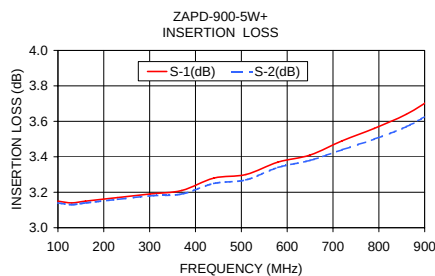


## Outline Dimensions (inch/mm)

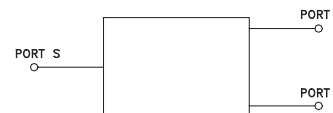
| A     | B     | C     | D     | E    | F     | G    |
|-------|-------|-------|-------|------|-------|------|
| 2.00  | 2.00  | .75   | 1.00  | .25  | 1.500 | .125 |
| 50.80 | 50.80 | 19.05 | 25.40 | 6.35 | 38.10 | 3.18 |

| H    | J     | K     | L     | wt    |
|------|-------|-------|-------|-------|
| .39  | 1.00  | .50   | 1.00  | grams |
| 9.91 | 25.40 | 12.70 | 25.40 | 170.0 |



## electrical schematic



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IF/RF MICROWAVE COMPONENTS

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