

Coaxial

# Power Splitter/Combiner

4 Way-0° 50Ω 800 to 900 MHz

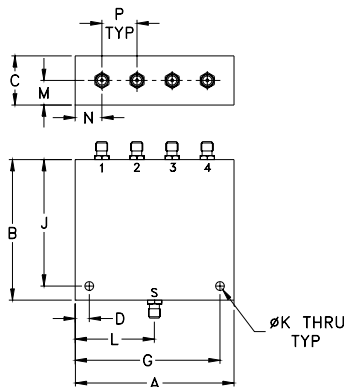
## Maximum Ratings

|                                                                 |                |
|-----------------------------------------------------------------|----------------|
| Operating Temperature                                           | -55°C to 100°C |
| Storage Temperature                                             | -55°C to 100°C |
| Power Input (as a splitter)                                     | 10W max.       |
| Internal Dissipation                                            | 0.375W max.    |
| Permanent damage may occur if any of these limits are exceeded. |                |

## Coaxial Connections

|          |   |
|----------|---|
| SUM PORT | S |
| PORT 1   | 1 |
| PORT 2   | 2 |
| PORT 3   | 3 |
| PORT 4   | 4 |

## Outline Drawing



## Outline Dimensions (inch/mm)

|       |       |       |      |       |       |
|-------|-------|-------|------|-------|-------|
| A     | B     | C     | D    | G     | J     |
| 2.26  | 2.00  | .70   | .200 | 2.060 | 1.800 |
| 57.40 | 50.80 | 17.78 | 5.08 | 52.32 | 45.72 |
| K     | L     | M     | N    | P     | wt    |
| .125  | 1.13  | .35   | .38  | .500  | grams |
| 3.18  | 28.70 | 8.89  | 9.65 | 12.70 | 59    |

## Features

- high isolation, 30dB typ.
- excellent VSWR
- up to 10W power input as splitters

## Applications

- cellular
- communication systems

**ZC4PD-900+**  
**ZC4PD-900**



CASE STYLE: Z184

| Connectors | Model          | Price   | Qty.  |
|------------|----------------|---------|-------|
| SMA        | ZC4PD-900-S(+) | \$89.95 | (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.

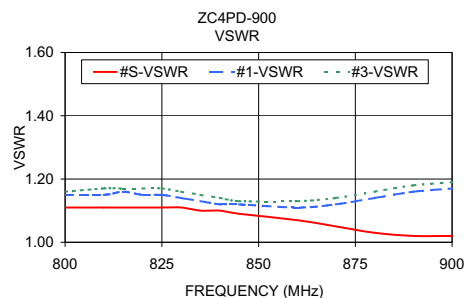
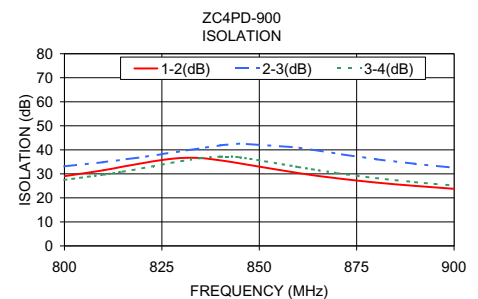
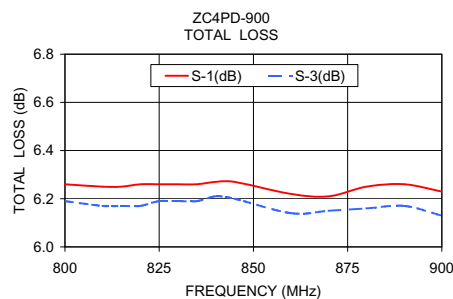
## Electrical Specifications

| FREQ. RANGE (MHz) | ISOLATION (dB) |      | INSERTION LOSS (dB) ABOVE 6.0 dB |      | PHASE UNBALANCE (Degrees) | AMPLITUDE UNBALANCE (dB) | VSWR (:1) |      |      |      |
|-------------------|----------------|------|----------------------------------|------|---------------------------|--------------------------|-----------|------|------|------|
|                   | Typ.           | Min. | Typ.                             | Max. |                           |                          | S         | OUT  |      |      |
| $f_L$ - $f_U$     |                |      |                                  |      |                           |                          | Typ.      | Max. | Typ. | Max. |
| 800-900           | 30             | 20   | 0.3                              | 0.6  | 3                         | 0.2                      | 1.08      | 1.25 | 1.17 | 1.30 |

## Typical Performance Data

| Freq. (MHz) | Total Loss <sup>1</sup> (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   |                     |        |        |        |        |        |
| 800.00      | 6.26                         | 6.27 | 6.19 | 6.22 | 0.08             | 29.00          | 33.10 | 27.48 | 0.41                | 1.11   | 1.15   | 1.15   | 1.16   | 1.17   |
| 810.00      | 6.25                         | 6.25 | 6.17 | 6.19 | 0.08             | 31.49          | 34.86 | 29.66 | 0.52                | 1.11   | 1.15   | 1.16   | 1.17   | 1.17   |
| 815.00      | 6.25                         | 6.26 | 6.17 | 6.19 | 0.09             | 33.00          | 35.88 | 30.87 | 0.45                | 1.11   | 1.16   | 1.16   | 1.17   | 1.17   |
| 820.00      | 6.26                         | 6.24 | 6.17 | 6.21 | 0.08             | 34.42          | 36.97 | 32.30 | 0.47                | 1.11   | 1.15   | 1.16   | 1.17   | 1.17   |
| 825.00      | 6.26                         | 6.26 | 6.19 | 6.21 | 0.08             | 35.76          | 38.19 | 33.81 | 0.41                | 1.11   | 1.15   | 1.15   | 1.17   | 1.16   |
| 830.00      | 6.26                         | 6.27 | 6.19 | 6.21 | 0.08             | 36.60          | 39.45 | 35.27 | 0.49                | 1.11   | 1.14   | 1.15   | 1.16   | 1.16   |
| 835.00      | 6.26                         | 6.27 | 6.19 | 6.22 | 0.08             | 36.57          | 40.67 | 36.55 | 0.48                | 1.10   | 1.13   | 1.14   | 1.15   | 1.15   |
| 840.00      | 6.27                         | 6.28 | 6.21 | 6.24 | 0.06             | 35.62          | 41.88 | 37.15 | 0.55                | 1.10   | 1.12   | 1.13   | 1.14   | 1.14   |
| 845.00      | 6.27                         | 6.28 | 6.20 | 6.23 | 0.08             | 34.37          | 42.64 | 36.87 | 0.60                | 1.09   | 1.12   | 1.12   | 1.13   | 1.13   |
| 860.00      | 6.22                         | 6.24 | 6.14 | 6.18 | 0.09             | 30.33          | 40.98 | 32.84 | 0.54                | 1.07   | 1.11   | 1.11   | 1.13   | 1.13   |
| 870.00      | 6.21                         | 6.23 | 6.15 | 6.19 | 0.08             | 28.14          | 38.39 | 30.31 | 0.70                | 1.05   | 1.12   | 1.13   | 1.14   | 1.15   |
| 880.00      | 6.25                         | 6.25 | 6.16 | 6.20 | 0.09             | 26.39          | 36.10 | 28.24 | 0.63                | 1.03   | 1.14   | 1.15   | 1.16   | 1.17   |
| 890.00      | 6.26                         | 6.26 | 6.17 | 6.20 | 0.09             | 25.00          | 34.17 | 26.54 | 0.62                | 1.02   | 1.16   | 1.17   | 1.18   | 1.19   |
| 900.00      | 6.23                         | 6.24 | 6.13 | 6.17 | 0.11             | 23.76          | 32.54 | 25.13 | 0.57                | 1.02   | 1.17   | 1.17   | 1.19   | 1.19   |

1. Total Loss = Insertion Loss + 6dB splitter loss.



## electrical schematic



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