

Coaxial

Power Splitter/Combiner

ZC16PD-960W+

16 Way-0° 50Ω 700 to 1000 MHz

Maximum Ratings

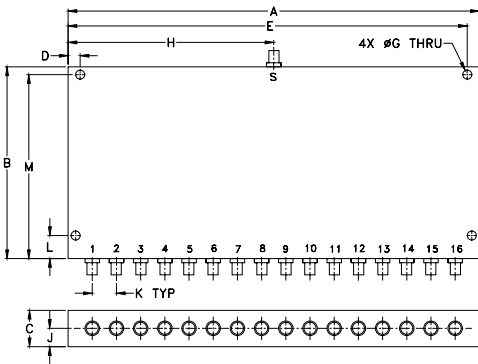
| | |
|-----------------------------|----------------|
| Operating Temperature | -55°C to 100°C |
| Storage Temperature | -55°C to 100°C |
| Power Input (as a splitter) | 10W max. |
| Internal Dissipation | 2.4W max. |

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

Coaxial Connections

| | |
|---------------------|----------------|
| SUM PORT | S |
| PORT 1,2,3,.....,16 | 1,2,3,.....,16 |

Outline Drawing



Outline Dimensions (inch/mm)

| A | B | C | D | E | F | G |
|--------|--------|-------|-------|--------|-------|------|
| 8.50 | 3.95 | .75 | .250 | 8.250 | - | .187 |
| 215.90 | 100.33 | 19.05 | 6.35 | 209.55 | - | 4.75 |
| H | J | K | L | M | wt | |
| 4.250 | .38 | .500 | .475 | 3.475 | grams | |
| 107.95 | 9.65 | 12.70 | 12.07 | 88.27 | 710 | |

Features

- low insertion loss, 0.5 dB typ.
- excellent VSWR, 1.1:1 typ.
- good isolation, 28 dB typ.

Applications

- UHF
- cellular
- communication systems



CASE STYLE: UU179

| Connectors | Model |
|------------|----------------|
| SMA | ZC16PD-960W-S+ |

+RoHS Compliant

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

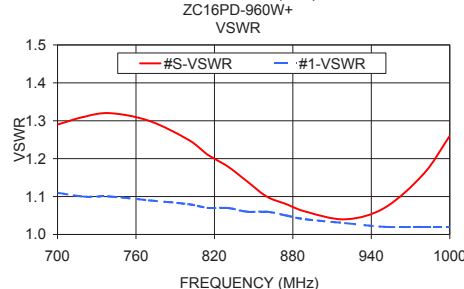
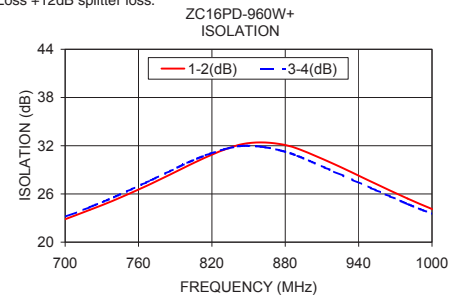
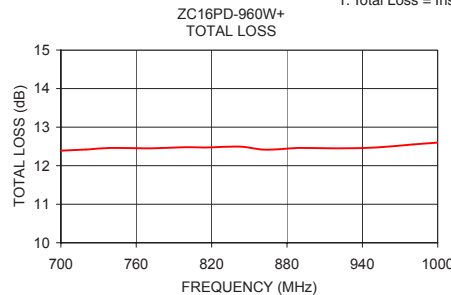
Electrical Specifications

| FREQ. RANGE (MHz) | ISOLATION (dB) | | INSERTION LOSS (dB) ABOVE 12 dB | | PHASE UNBALANCE (Degrees) | AMPLITUDE UNBALANCE (dB) | VSWR (:1) | | | |
|-------------------|----------------|------|---------------------------------|------|---------------------------|--------------------------|-----------|------|------|------|
| | Typ. | Min. | Typ. | Max. | | | S | | OUT | |
| f_L - f_U | | | | | Max. | Max. | Typ. | Max. | Typ. | Max. |
| 700-1000 | 26 | 15 | 0.5 | 1.3 | — | 0.6 | 1.1 | 1.6 | 1.06 | 1.3 |

Typical Performance Data

| Freq. (MHz) | Total Loss ¹ (dB) | Amplitude Unbalance (dB) | Isolation (dB) | | Phase Unbalance (deg.) | VSWR S | VSWR 1 |
|-------------|------------------------------|--------------------------|----------------|-------|------------------------|--------|--------|
| | S-1 | | 1-2 | 3-4 | | | |
| 700.00 | 12.39 | 0.32 | 22.85 | 23.16 | 11.15 | 1.29 | 1.11 |
| 720.00 | 12.42 | 0.29 | 24.01 | 24.35 | 11.49 | 1.31 | 1.10 |
| 740.00 | 12.46 | 0.29 | 25.22 | 25.61 | 11.19 | 1.32 | 1.10 |
| 770.00 | 12.45 | 0.38 | 27.25 | 27.69 | 11.43 | 1.30 | 1.09 |
| 800.00 | 12.48 | 0.28 | 29.48 | 29.88 | 12.12 | 1.25 | 1.08 |
| 815.00 | 12.47 | 0.27 | 30.55 | 30.81 | 12.09 | 1.21 | 1.07 |
| 830.00 | 12.49 | 0.24 | 31.50 | 31.56 | 12.16 | 1.18 | 1.07 |
| 845.00 | 12.49 | 0.25 | 32.20 | 31.98 | 12.05 | 1.14 | 1.06 |
| 860.00 | 12.42 | 0.26 | 32.41 | 31.88 | 12.23 | 1.10 | 1.06 |
| 875.00 | 12.43 | 0.35 | 32.22 | 31.45 | 12.83 | 1.08 | 1.05 |
| 890.00 | 12.46 | 0.35 | 31.64 | 30.73 | 13.20 | 1.06 | 1.04 |
| 920.00 | 12.45 | 0.33 | 29.71 | 28.76 | 13.21 | 1.04 | 1.03 |
| 950.00 | 12.47 | 0.22 | 27.55 | 26.73 | 13.48 | 1.07 | 1.02 |
| 980.00 | 12.55 | 0.23 | 25.43 | 24.75 | 14.45 | 1.16 | 1.02 |
| 1000.00 | 12.60 | 0.21 | 24.12 | 23.52 | 14.54 | 1.26 | 1.02 |

1. Total Loss = Insertion Loss + 12dB splitter loss.



electrical schematic



Notes

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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