

Coaxial

Power Splitter/Combiner

ZC16PD-960-S+

16 Way-0° 50Ω 890 to 960 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 |

Features

- high isolation, 28 dB typ.
- low insertion loss, 0.5 dB typ.
- excellent VSWR, 1.06:1 typ.
- up to 10W power input as splitter
- rugged shielded case

Applications

- UHF
- cellular
- communication systems

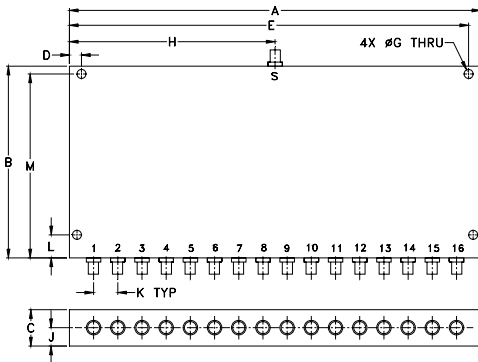
CASE STYLE: UU179

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

+RoHS Compliant

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

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 | |

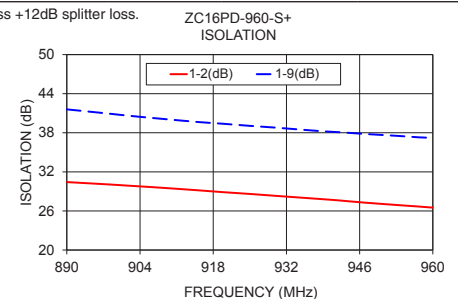
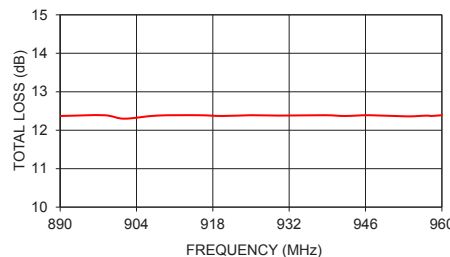
Electrical Specifications

| FREQ. RANGE (MHz) | ISOLATION (dB) | | INSERTION LOSS (dB) ABOVE 12 dB | | AMPLITUDE UNBALANCE (dB) | VSWR (:1) | | | |
|-------------------|----------------|------|---------------------------------|------|--------------------------|-----------|------|------|------|
| | Typ. | Min. | Typ. | Max. | | S | | OUT | |
| f_L - f_U | | | | | Max. | Typ. | Max. | Typ. | Max. |
| 890-960 | 28 | 20 | 0.5 | 1.0 | 0.5 | 1.06 | 1.3 | 1.06 | 1.2 |

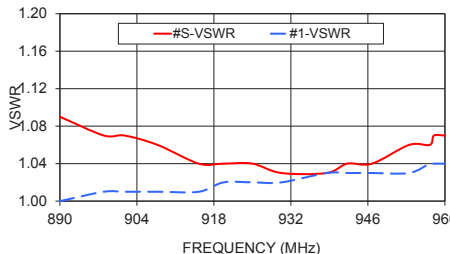
Typical Performance Data

| Freq. (MHz) | Total Loss ¹ (dB) | Amplitude Unbalance (dB) | Isolation (dB) | | VSWR S | VSWR 1 |
|-------------|------------------------------|--------------------------|----------------|-------|--------|--------|
| | S-1 | | 1-2 | 1-9 | | |
| 890.00 | 12.37 | 0.24 | 30.43 | 41.59 | 1.09 | 1.00 |
| 898.00 | 12.39 | 0.24 | 30.07 | 40.94 | 1.07 | 1.01 |
| 901.75 | 12.30 | 0.22 | 29.88 | 40.62 | 1.07 | 1.01 |
| 907.75 | 12.38 | 0.25 | 29.58 | 40.17 | 1.06 | 1.01 |
| 915.25 | 12.39 | 0.23 | 29.16 | 39.64 | 1.04 | 1.01 |
| 919.75 | 12.37 | 0.25 | 28.89 | 39.39 | 1.04 | 1.02 |
| 925.00 | 12.39 | 0.24 | 28.61 | 39.06 | 1.04 | 1.02 |
| 930.25 | 12.38 | 0.25 | 28.30 | 38.77 | 1.03 | 1.02 |
| 938.50 | 12.39 | 0.26 | 27.83 | 38.25 | 1.03 | 1.03 |
| 942.25 | 12.37 | 0.24 | 27.60 | 38.08 | 1.04 | 1.03 |
| 946.75 | 12.39 | 0.25 | 27.29 | 37.83 | 1.04 | 1.03 |
| 953.50 | 12.36 | 0.26 | 26.89 | 37.51 | 1.06 | 1.03 |
| 957.25 | 12.38 | 0.24 | 26.68 | 37.30 | 1.06 | 1.04 |
| 958.00 | 12.37 | 0.26 | 26.63 | 37.28 | 1.07 | 1.04 |
| 960.00 | 12.39 | 0.25 | 26.51 | 37.19 | 1.07 | 1.04 |

ZC16PD-960-S+ 1. Total Loss = Insertion Loss + 12dB splitter loss.



ZC16PD-960-S+ VSWR



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.
- The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/WCLStore/terms.jsp

