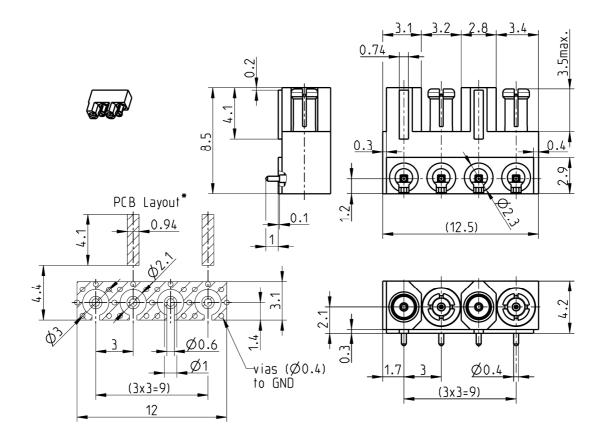
# **Technical Data Sheet**

# Rosenberger

Mini-Coax

4 Channel Block Right Angle

## 23C21E-40ML5



\*A wide variety of transmissionline topologies and pcb-parameters like permittivity, substrate thickness, and board-stackup are applied by customers. These parameters have a strong impact on the high frequency performance of the mounted connector. Please note, that the given layout is not optimised to fit all of the possible board configurations regarding RF-performance, it represents a recommendation for optimum solderability of the connector. In order to guarantee optimum high frequency properties of the connector, an

All dimensions are in mm; tolerances according to ISO 2768 m-H

RF-analysis of the connector to board transition is recommended.

#### Interface

According to

Rosenberger Mini-Coax

# **Documents**

N/A

#### Material and plating

Connector parts
Center contact

Outer contact male
Outer contact female

Body Dielectric Material Plating

CuBe or equiv.

CuBe
Brass
Brass
Brass
AuroDur®, gold plated

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# Technical Data Sheet Rosenberger Mini-Coax 4 Channel Block Right Angle 23C21E-40ML5

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Impedance  $50 \Omega$ 

Frequency DC to 20 GHz

Return loss  $\geq$  25 dB @ DC to 3 GHz  $\geq$  20 dB @ 3 GHz to 6 GHz

≥ 16 dB @ 6 GHz to 20 GHz

Insertion loss  $\leq 0.05 \text{ x } \sqrt{f \text{ [GHz]}} \text{ dB}$ 

 $\begin{array}{ll} \mbox{Insulation resistance} & \geq 1 G \Omega \\ \mbox{Center contact resistance} & \leq 10 \ m \Omega \\ \mbox{Outer contact resistance} & \leq 3 \ m \Omega \\ \mbox{Test voltage (at sea level)} & 750 \ \mbox{V rms} \\ \mbox{Working voltage (at sea level)} & 500 \ \mbox{V rms} \\ \end{array}$ 

RF-leakage  $\geq$  80 dB @ DC to 1 GHz  $\geq$  60 dB @ 1 GHz to 4 GHz

#### Mechanical data

Mating cycles  $\geq 500$ 

Engagement force max. 16 N typical 10 N Extraction force max. 24 N typical 21 N

#### **Environmental data**

Temperature range -40 °C to +125 °C Climatic category IEC 60068-2-1 40/85/21 Dry heat IEC 60068-2-2

Dry heat IEC 60068-2-2 Damp heat IEC 60068-2-78

Shock IEC 60068-2-27 (50g halfsinus, 2 shocks/axis during 11 sec.)

Max. soldering temperature IEC 61760-1, +260 °C for 10 sec.

RoHS compliant

### **Tooling**

N/A

#### Suitable cables

N/A

#### Weight

Weight 2.1 g/pce

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Herbert Babinger	28.07.08	Martin Moder	10.03.15	c00	15-0280	B.Zimmerle	10.03.15

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<sup>-</sup> Connector only, VSWR in application depends decisive on PCB layout -

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