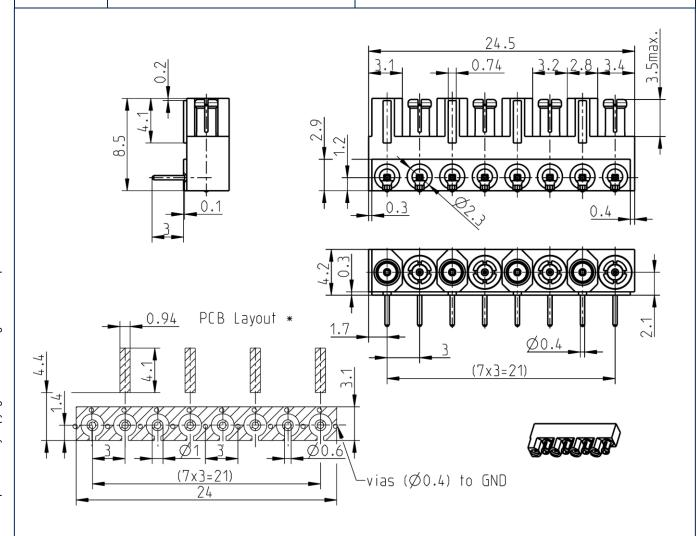
## **Technical Data Sheet**

# Rosenberger

Mini coax

8 CHANNEL BLOCK right angle

## MF2C116-40ML5-NM



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

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

#### **Documents**

N/A

## Material and plating Connector parts

Center contact
Outer contact male
Outer contact female
Body
Dielectric

Material

CuBe or equiv. Au
CuBe Au
Spring bronze Au
Brass Au
PTFE

Plating

AuroDur®, gold plated AuroDur®, gold plated AuroDur®, gold plated AuroDur®, gold plated

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# RF\_35/05.10/6.0

# Rosenberger

## Mini coax

8 CHANNEL BLOCK right angle

### MF2C116-40ML5-NM

#### Electrical data

**Technical Data Sheet** 

Impedance 50  $\Omega$ 

Frequency DC to 20 GHz

Return loss  $\geq$  25 dB, DC to 2 GHz

Insertion loss  $\leq 0.02 \text{ x} \sqrt{f(GHz)} dB$ 

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

RF-leakage ≥ 80 dB up to 1 GHz

≥ 60 dB up to 4 GHz

- Connector only, Return loss in application depends decisive on PCB layout -

#### Mechanical data

Mating cycles  $\geq 500$ 

Engagement force max. 32 N typical 20 N Extraction force max. 48 N typical 42 N

## Environmental data

Temperature range - 40°C to +125°C

Climatic class IEC 60068-2-1 40/85/21

IEC 60068-2-2 IEC 60068-2-3

Mechanical shock IEC 60068-2-27 50G halfsinus, 2 shocks/axis during 11 sec.

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

2002/95/EC (RoHS) compliant
MR capability non-magnetic

**Tooling** 

N/A

Suitable cables

N/A

**Packing** 

Standard 50 pcs in blister Weight 4.2g/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
F.Michelmann	15.03.11	F.Michelmann	03.07.13	d00	13-0719	J. Ressl	02.07.13

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