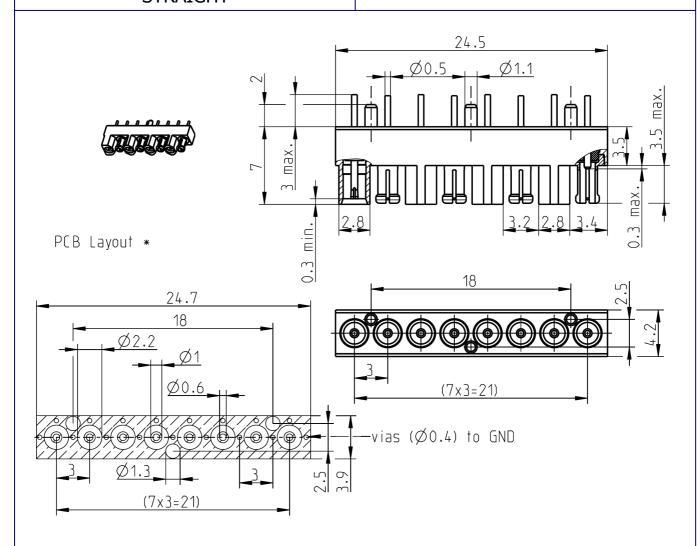
TECHNICAL DATA SHEET

Rosenberger®

Mini-Coax

8 CHANNEL BLOCK STRAIGHT

MF2C118-40ML5-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	plati	ng
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Connector parts
Center contact
Outer contact male
Outer contact female
Body
Dielectric

Material Plating

CuBe or equiv.
CuBe
Spring bronze
Brass
PTFE
AuroDur®, gold plated
AuroDur®, gold plated
AuroDur®, gold plated
AuroDur®, gold plated

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1/2

TECHNICAL DATA SHEET

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2/2

Mini-Coax

8 CHANNEL BLOCK STRAIGHT

MF2C118-40ML5-NM

Electrical data

Impedance 50 Ω

Frequency DC to 20 GHz

Return loss ≥ 25 dB, DC to 2 GHz

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

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

RF-leakage \geq 80 dB up to 1 GHz \geq 60 dB up to 4 GHz

Mechanical data

Mating cycles ≥ 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

www.rosenberger.de

N/A

Packing

Standard 25 pcs in blister Weight 3.4 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
F.Michelmann	15.03.11	F.Michelmann	27.06.12		c00	12-0432	M. Raethlein	27.06.12
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⁻ Connector only, Return loss in application depends decisive on PCB layout -