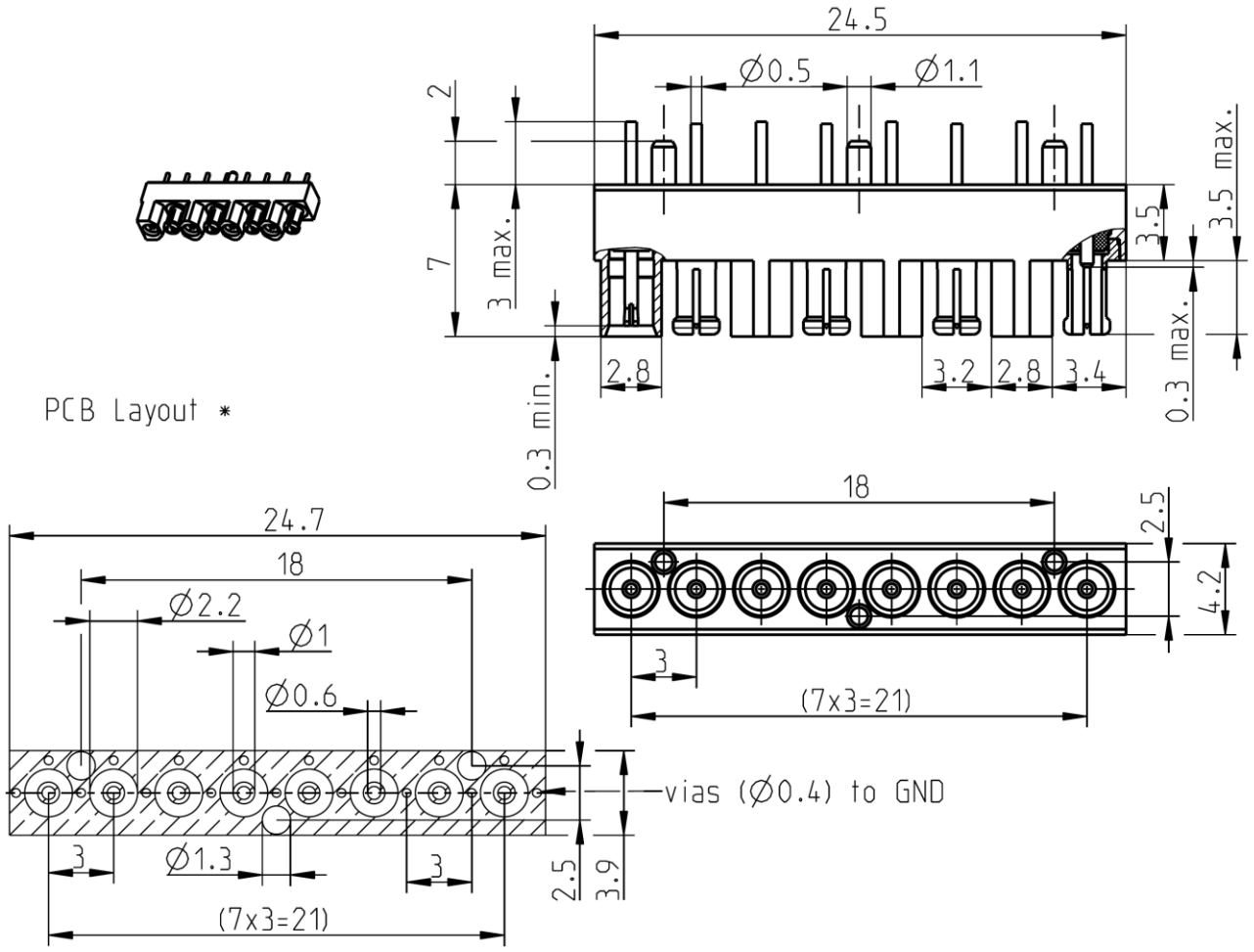
Technical Data Sheet		Rosenberger
Mini-Coax	8 CHANNEL BLOCK STRAIGHT	**MF2C118-40ML5-NM**



*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.

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

Documents

N/A

Material and plating

Connector parts	**Material**	**Plating**
Center contact	CuBe or equiv.	AuroDur®, gold plated
Outer contact male	CuBe	AuroDur®, gold plated
Outer contact female	Spring bronze	AuroDur®, gold plated
Body	Brass	AuroDur®, gold plated
Dielectric	PTFE	

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Electrical data

Impedance	50 Ω
Frequency	DC to 20 GHz
Return loss	≥ 25 dB, DC to 2 GHz
Insertion loss	≤ 0.02 x $\sqrt{f(GHz)}$ dB
Insulation resistance	≥ 1 x10^3 MΩ
Center contact resistance	≤ 10 mΩ
Outer contact resistance	≤ 3 mΩ
Test voltage (at sea level)	750 V rms
Working voltage (at sea level)	500 V rms
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	≥ 500
Engagement force	max. 32 N typical 20 N
Extraction force	max. 48 N typical 42 N

Enviromental 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

N/A

Suitable cables

N/A

Packing

Standard	25 pcs in blister
Weight	3.4 g/pce

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