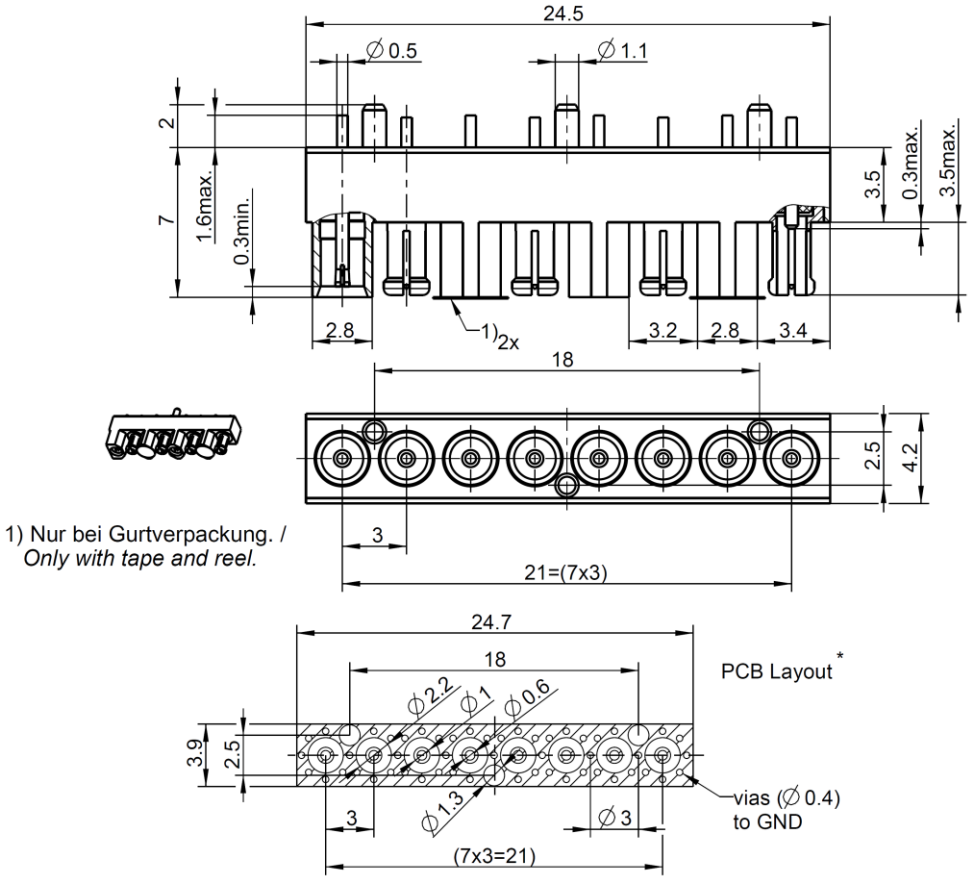
Technical Data Sheet		Rosenberger
Mini-Coax	8 Channel Block Straight	**23C12D-40ML5**



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

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

Interface

According to: Rosenberger Mini-Coax

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	Brass	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 3 GHz ≥ 20 dB @ 3 GHz to 6 GHz ≥ 16 dB @ 6 GHz to 20 GHz
Insertion loss	$\leq 0.05 \times \sqrt{f\,[GHz]}$ dB
Insulation resistance	≥ 1GΩ
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 @ DC to 1 GHz ≥ 60 dB @ 1 GHz to 4 GHz

- Connector only, VSWR 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

Environmental data

Temperature range	-40 °C to +125 °C
Climatic category	IEC 60068-2-1 40/85/21
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	3.4 g/pce

Draft	Date	Approved	Date
Herbert Babinger	28.07.08	Martin Moder	01.02.16

Rev.	Engineering change number	Name	Date
d00	16-0175	S. Andorfer	01.02.16

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