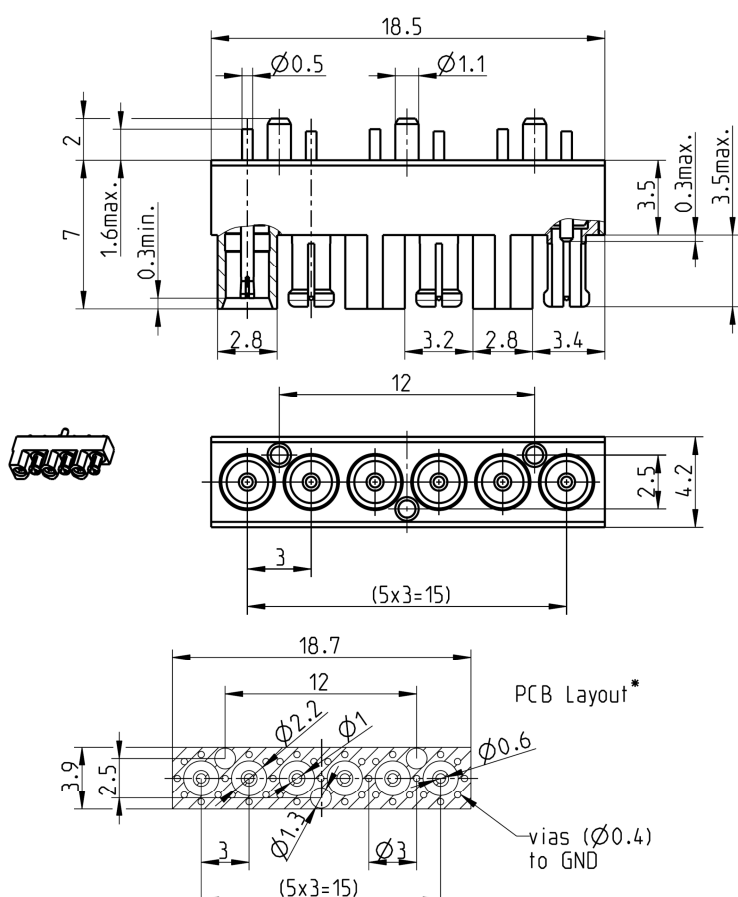


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RF\_35/09.14/6.2

Technical Data Sheet		Rosenberger
Mini-Coax	6 Channel Block Straight	23C12G-40ML5
<div></div>		
<p>*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.</p> <p>All dimensions are in mm; tolerances according to ISO 2768 m-H</p> <div><div>Interface</div><div>According to</div><div>Rosenberger Mini-Coax</div></div> <div><div>Documents</div><div>N/A</div></div> <div><div>Material and plating</div><div><div>Connector parts</div><div>Center contact</div><div>Outer contact male</div><div>Outer contact female</div><div>Body</div><div>Dielectric</div></div><div><div>Material</div><div>CuBe or equiv.</div><div>CuBe</div><div>Brass</div><div>Brass</div><div>PTFE</div></div><div><div>Plating</div><div>AuroDur®, gold plated</div><div>AuroDur®, gold plated</div><div>AuroDur®, gold plated</div><div>AuroDur®, gold plated</div></div></div>		

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# Technical Data Sheet

# Rosenberger

Mini-Coax

6 Channel Block  
Straight

23C12G-40ML5

## 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	≤ 0.05 x $\sqrt{f \text{ [GHz]}}$ dB
Insulation resistance	≥ 1 GΩ
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. 24 N typical 15 N
Extraction force	max. 36 N typical 31.5 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	2.8 g/pce
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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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