



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

**Interface**

According to IEC 61169-65

**Documents**

PCB layout LR\_23-0035  
Handling Instruction HI\_016

intern | internal

**Material and plating**

**Connector parts**

Center contact  
 Outer contact PCB side  
 Outer contact RPC-1.35 side  
 Dielectric

**Material**

CuBe  
 CuBe or equiv.  
 CuBe or equiv.  
 PEEK

**Plating**

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

**Electrical data**

Impedance 50 Ω  
 Frequency DC to 90 GHz  
 Return loss ≥ 21 dB, DC to 26.5 GHz  
 ≥ 17 dB, 26.5 GHz to 40 GHz  
 ≥ 14 dB, 40 GHz to 60 GHz  
 ≥ 12 dB, 60 GHz to 90 GHz  
 Insertion loss ≤ 0.05 x √f(GHz) dB  
 Insulation resistance ≥ 5 GΩ  
 Test voltage 500 V rms  
 Working voltage 150 V rms

- Return loss in application depends decisive on PCB layout -

**Mechanical data**

Mating cycles PCB side ≥ 300  
 Mating cycles RPC-1.35 side ≥ 3000  
 Center contact captivation ≥ 10 N  
 Coupling test torque RPC-1.35 1.65 Nm  
 Recommended torque RPC-1.35 0.90 Nm  
 Recommended torque Allen screw 1.5 0.20 Nm to 0.30 Nm  
 PCB thickness max.<sup>1</sup> 1.5 mm typical; dimension expandable with longer screws

**Environmental data**

Temperature range -40°C to +85°C  
 Corrosion IEC 61169-1, Subclause 9.4.6  
 Vibration IEC 61169-1, Subclause 9.3.3  
 Shock IEC 61169-1, Subclause 9.3.14  
 Max. soldering temperature N/A (connector is only screwed on, not soldered)  
 RoHS compliant

**Tooling**

Allen wrench 1.5 mm

**Weight**

3.2 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
Martin Moder	25.08.17	Florian Reiner	06.06.23

Rev.	Engineering change number	Name	Date
a00	23-s107	S. Barth	06.06.23

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