



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

**Interface**

According to IEC 61169-32  
Mechanically compatible with RPC-2.40

**Documents**

PCB layout LR\_21-0138

**Material and plating**

**Connector parts**

Center contact  
Outer contact  
Dielectric 1  
Dielectric 2

**Material**

CuBe  
CuBe or equiv.  
PEEK  
PTFE

**Plating**

Gold, min. 1.27 µm, over chemical nickel  
AuroDur®, gold plated

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RF\_35/05.10/6.1

RPC-1.85

Right Angle Jack  
PCB

**08K246-40ML3**

**Electrical data**

Impedance	50 Ω
Frequency	DC to 70 GHz
Return loss	≥ 20 dB, DC to 40 GHz ≥ 14 dB, 40 GHz to 50 GHz ≥ 8 dB, 50 GHz to 70 GHz
Insertion loss	≤ 0.05 x √f(GHz)dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 4.0 mΩ
Outer contact resistance	≤ 2.5 mΩ
Test voltage	500 V rms
Working voltage	150 V rms
RF-leakage	≥ 100 dB up to 1 GHz

- Connector only, VSWR in application depends decisive on PCB layout -

**Mechanical data**

Mating cycles	≥ 500
Center contact captivation: axial	≥ 20 N
Coupling test torque	1.65 Nm
Recommended torque	0.80 Nm to 1.10 Nm

**Environmental data**

Temperature range	-55°C to +125°C
Thermal shock	IEC 61169-1, Subclause 9.4.4
Corrosion	IEC 61169-1, Subclause 9.4.6
Vibration	IEC 61169-1, Subclause 9.3.3
Shock	IEC 61169-1, Subclause 9.3.14
Moisture resistance	IEC 61169-1, Subclause 9.4.3
Max. soldering temperature	IEC 61760-1, +260°C for 10 sec.
RoHS	compliant

**Tooling**

N/A

**Suitable cables**

N/A

**Weight**

2.7 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
Martin Moder	10.03.15	H. Babinger	25.04.23	d00	23-0004	G. Schiele	25.04.23

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