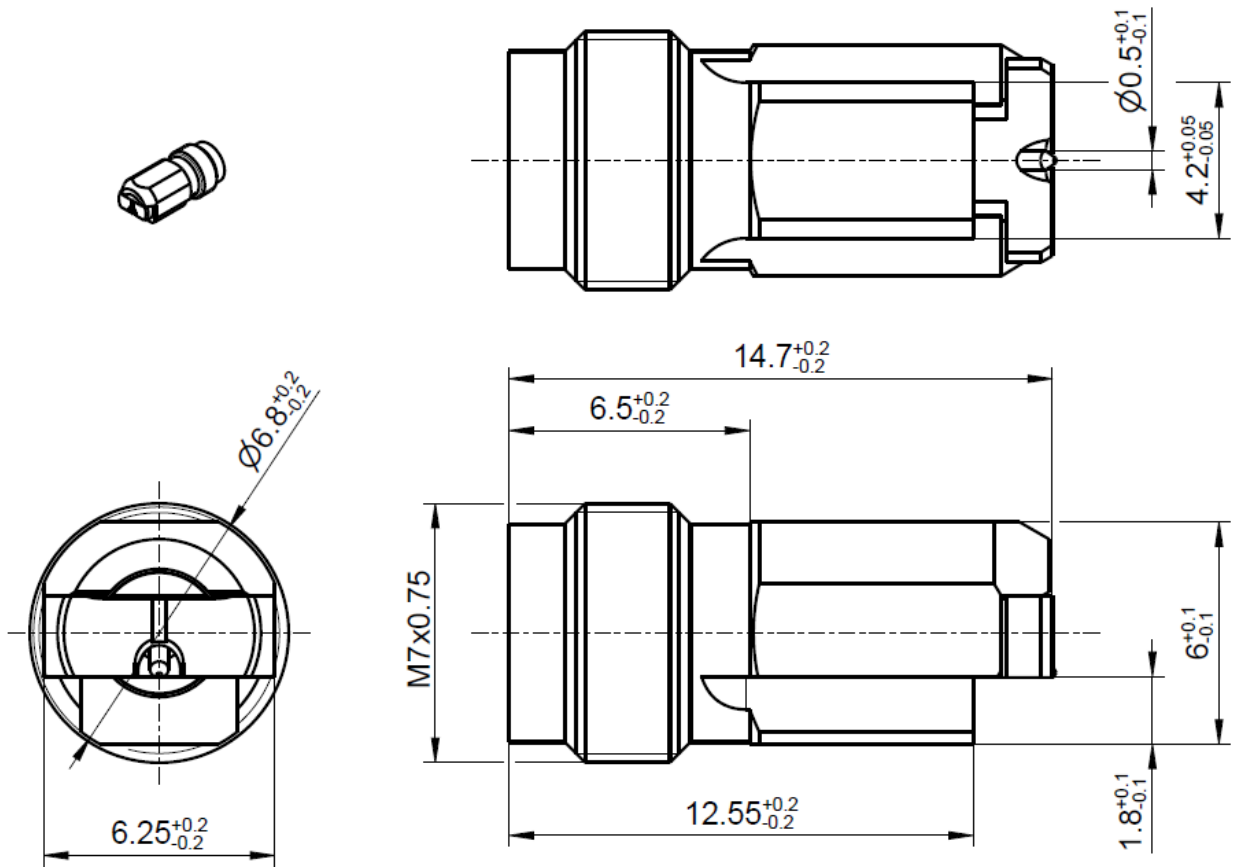


RPC-1.85 Right Angle Jack
PCB

08K249-40ML5



All dimensions are in mm

Interface

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

Documents

PCB layout LR_21-0040

Material and plating

Connector parts

Center contact
Outer contact
Dielectric

Material

CuBe
CuBe or equiv.
PEEK

Plating

AuroDur®, gold plated
AuroDur®, gold plated

RPC-1.85 Right Angle Jack PCB

08K249-40ML5

Electrical data

Impedance 50 Ω
 Frequency DC to 70 GHz
 Return loss ≥ 19 dB, DC to 26.5 GHz
 ≥ 17 dB, 26.5 GHz to 40 GHz
 ≥ 14 dB, 40 GHz to 70 GHz
 Insertion loss ≤ 0.05 x √f(GHz) dB
 Insulation resistance ≥ 5 x10³ MΩ
 Test voltage (at sea level) 500 V rms
 Working voltage (at sea level) 150 V rms
 RF-leakage ≥ 100 dB up to 1 GHz

- Return loss in application depends decisive on PCB layout

Mechanical data

Mating cycles ≥ 500
 Center contact captivation ≥ 20 N
 Coupling test torque 1.65 Nm
 Recommended torque ¹⁾ 0.80 Nm to 1.10 Nm

¹⁾ It is strongly recommended to hold the connector against the wrench flats on the connector body to avoid damage to the board when applying torque.

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

Weight

3.1 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.

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
F. Reiner	03.01.19	H. Babinger	20.10.22	b00	22-1724	S. Schmid	18.10.22

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