



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

Interface

According to IEC 61169-31

Documents

PCB layout B 781A

Material and plating

Connector parts

Center contact
Outer contact
Dielectric

Material

CuBe
CuBe or equiv.
PEEK

Plating

AuroDur®, gold plated
AuroDur®, gold plated

RPC-1.00

Right Angle Jack
PCB

01K241-40ML5

Electrical data

Impedance	50 Ω
Frequency	DC to 110 GHz
Return loss	≥ 19 dB, DC to 26.5 GHz ≥ 17 dB, 26.5 to 40 GHz ≥ 14 dB, 40 to 70 GHz ≥ 12 dB, 70 to 90 GHz ≥ 10 dB, 90 to 110 GHz
Insertion loss	≤ 0.05 x √f(GHz) dB
Insulation resistance	≥ 5 x10 ³ MΩ
Test voltage (at sea level)	500 V rms
Working voltage (at sea level)	150 V rms
RF-leakage	≥ 90 dB up to 1 GHz

- Return loss in application depends decisive on PCB layout -

Mechanical data

Mating cycles	≥ 500
Center contact captivation	≥ 10 N
Coupling test torque	0.70 Nm
Recommended torque	0.30 Nm to 0.41 Nm

Environmental data

Temperature range	-40°C to +85°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

0.9 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
F. Reiner	03.01.19	H. Babinger	20.11.19	300	19-v703	A. Youmsi	20.11.19