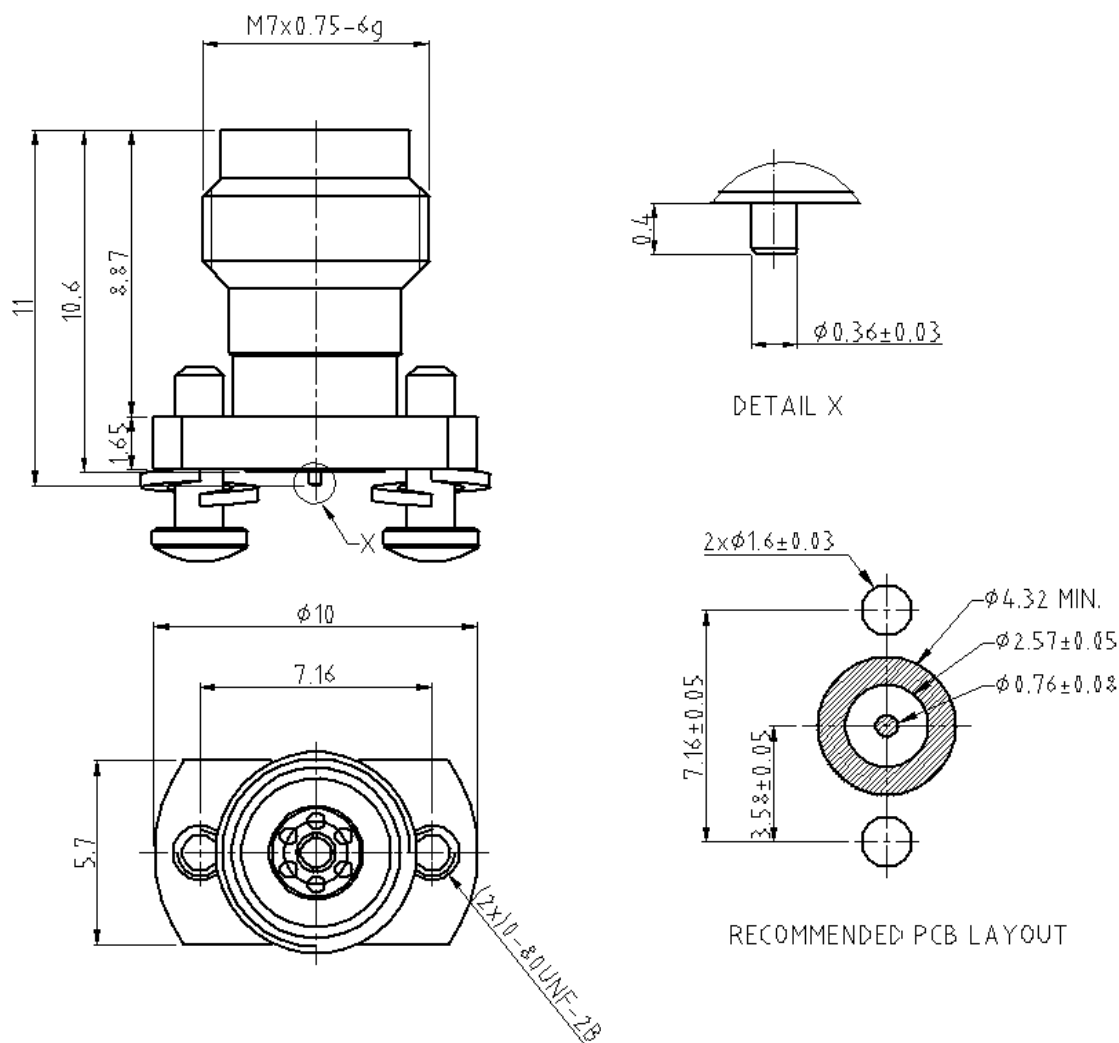


Technical Data Sheet		Rosenberger
RPC-2.4	Straight Jack PCB Solderless compression	R09K704-500S3



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

Interface

According to
Mechanically compatible with

IEC 61169-40
RPC-1.85

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact
Dielectric
Screw
Washer

Material

CuBe
Stainless steel
PEEK
Stainless steel
Stainless steel

Plating

AuroDur®, gold plated
Passivated

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Technical Data Sheet

Rosenberger

RPC-2.4

Straight Jack PCB
Solderless compression

R09K704-500S3

Electrical data

Impedance	50 Ω
Frequency	DC to 50 GHz
Return loss	≥ 14 dB DC to 50 GHz
Insertion loss	≤ 0.06 x √f [GHz] dB
Insulation resistance	≥ 5 x10 ³ MΩ
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	≤ 1.7 Nm
Recommended torque	0.8 Nm to 1.1 Nm

Environmental data

Temperature range	-45°C to +85°C
Thermal shock	IEC 61169-1, Subclause 9.4.4
Corrosion resistance	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
RoHS	compliant

Accessories

Available Screws DIN 7985-H-A2 UNF 0-80 for different PCB lengths.
Standard length = 0-80 UNF x 4.76 mm, suitable for PCB thickness = 0.76 mm to 2.44 mm (already included with the connector)
Optional length = 0-80 UNF x 6.35 mm, suitable for PCB thickness = 1.78 mm to 4.19 mm
Optional length = 0-80 UNF x 9.50 mm, suitable for PCB thickness = 4.32 mm to 7.50 mm

Tooling

N/A

Packing

Weight 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.

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



Draft	Date	Checked	Approved	Date	Rev.	Engineering change number	Name	Date
xuyangfan	05.09.22	xibinhong	heanyang	05.09.22	100	2022-m001	xuyangfan	05.09.22

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