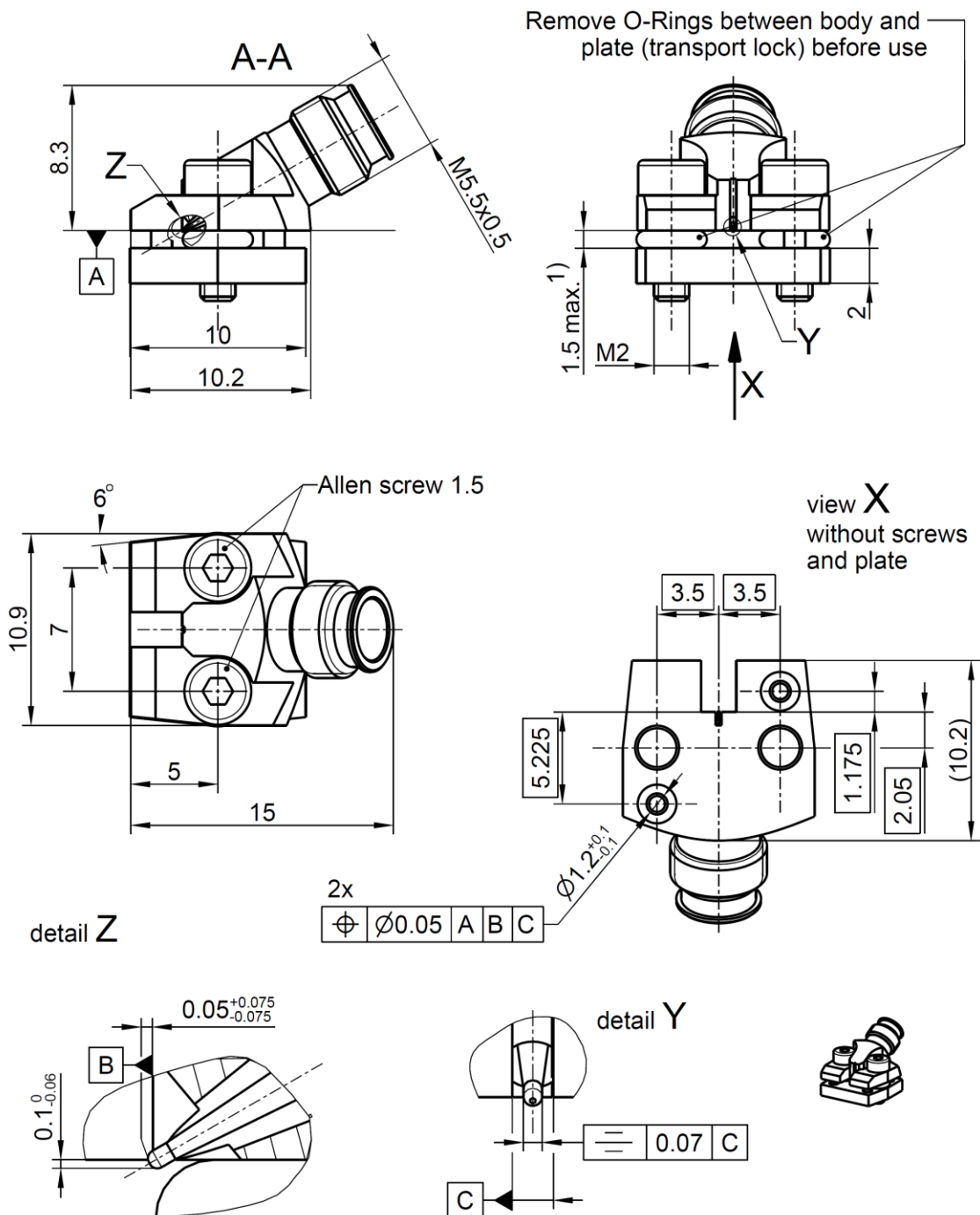




All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to

IEC 61169-65

Documents

PCB layout

LR_23-0035

Handling Instruction

HI_016

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Technical Data Sheet

Rosenberger

RPC-1.35

SMD Connector jack

P9K80A-40ML5**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
Frequency
Return loss

50 Ω
DC to 90 GHz
≥ 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
Insulation resistance
Test voltage
Working voltage

≤ 0.05 x √f(GHz) dB
≥ 5 GΩ
500 V rms
150 V rms

- Return loss in application depends decisive on PCB layout -

Mechanical data

Mating cycles PCB side
Mating cycles RPC-1.35 side
Center contact captivation
Coupling test torque RPC-1.35
Recommended torque RPC-1.35
Recommended torque Allen screw 1.5
PCB thickness max.¹

≥ 300
≥ 3000
≥ 10 N
1.65 Nm
0.90 Nm
0.20 Nm to 0.30 Nm
1.5 mm typical; dimension expandable with longer screws

Environmental data

Temperature range
Corrosion
Vibration
Shock
Max. soldering temperature
RoHS

-40°C to +85°C
IEC 61169-1, Subclause 9.4.6
IEC 61169-1, Subclause 9.3.3
IEC 61169-1, Subclause 9.3.14
N/A (connector is only screwed on, not soldered)
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	13.02.25

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Rev.	Engineering change number	Name	Date
b00	25-0171	M. Gehl	13.02.25

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