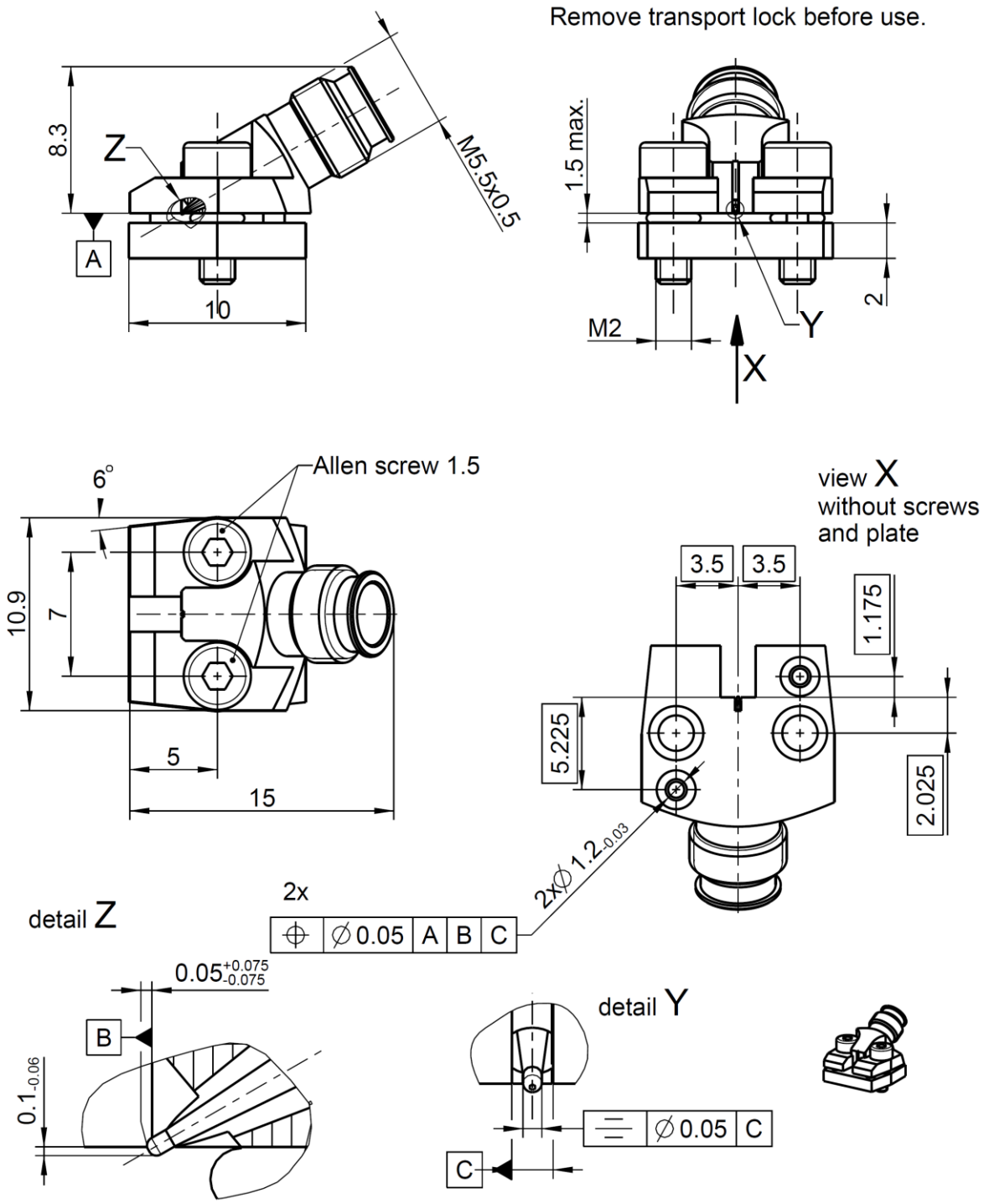
Technical Data Sheet		Rosenberger
RPC-1.35	SMD Connector jack	**P9K80A-40ML5**



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

Interface

According to	IEC 61169-65 (in progress)

Documents

PCB layout	MB 389
Handling Instruction	HI_016

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Material and plating

Connector parts	Material	Plating
Center contact	CuBe	AuroDur®, gold plated
Outer contact PCB side	CuBe or equiv.	AuroDur®, gold plated
Outer contact RPC-1.35 side	CuBe or equiv.	AuroDur®, gold plated
Dielectric	PEEK	

Electrical data

Impedance	50 Ω
Frequency	DC to 90 GHz
Return loss	≥ 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	$\leq 0.05 \times \sqrt{f(GHz)}$ dB
Insulation resistance	≥ 5 GΩ
Test voltage	500 V rms
Working voltage	150 V rms

- Return loss in application depends decisive on PCB layout -

Mechanical data

Mating cycles PCB side	≥ 300
Mating cycles RPC-1.35 side	≥ 3000
Center contact captivation	≥ 10 N
Coupling test torque RPC-1.35	1.65 Nm
Recommended torque RPC-1.35	0.90 Nm
Recommended torque Allen screw 1.5	0.20 Nm to 0.30 Nm
PCB thickness max.[1]	1.5 mm typical; dimension expandable with longer screws

Environmental data

Temperature range	-40°C to +85°C
Corrosion	IEC 61169-1, Subclause 9.4.6
Vibration	IEC 61169-1, Subclause 9.3.3
Shock	IEC 61169-1, Subclause 9.3.14
Max. soldering temperature	N/A (connector is only screwed on, not soldered)
RoHS	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	Herbert Babinger	12.03.19

Rev.	Engineering change number	Name	Date
600	19-1464	S. Schmid	02.08.19

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