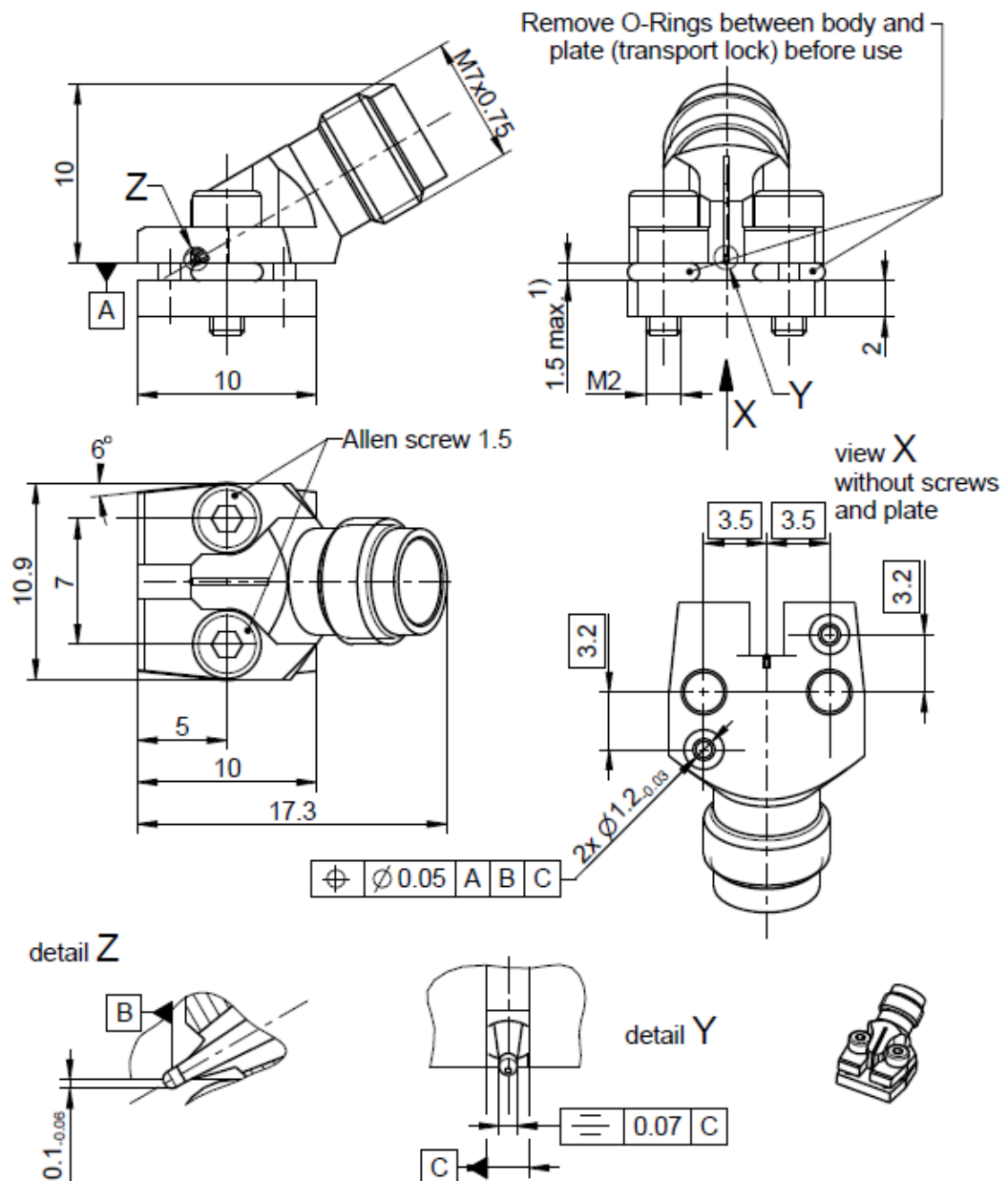




All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to
Mechanically compatible with

IEC 61169-32
RPC-2.40

Documents

PCB layout
Handling Instruction

LR_20-0153
HI_016

Technical Data Sheet				Rosenberger			
RPC-1.85		SMD Connector jack		08K80E-40ML5			
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-1.85 side		CuBe or equiv.		AuroDur®, gold plated			
Dielectric		PEEK					
Electrical data							
Impedance		50 Ω					
Frequency		DC to 70 GHz					
Return loss		≥ 21 dB, DC to 26.5 GHz					
		≥ 19 dB, 26.5 GHz to 40 GHz					
		≥ 17 dB, 40 GHz to 60 GHz					
		≥ 14 dB, 60 GHz to 70 GHz					
Insertion loss		≤ 0.05 x √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-1.85 side		≥ 500					
Coupling test torque RPC-1.85		1.65 Nm					
Recommended torque RPC-1.85		0.80 Nm to 1.10 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					
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		N/A (connector is only screwed on, not soldered)					
RoHS		compliant					
Tooling							
Allen wrench 1.5 mm							
Weight							
				3.6 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
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