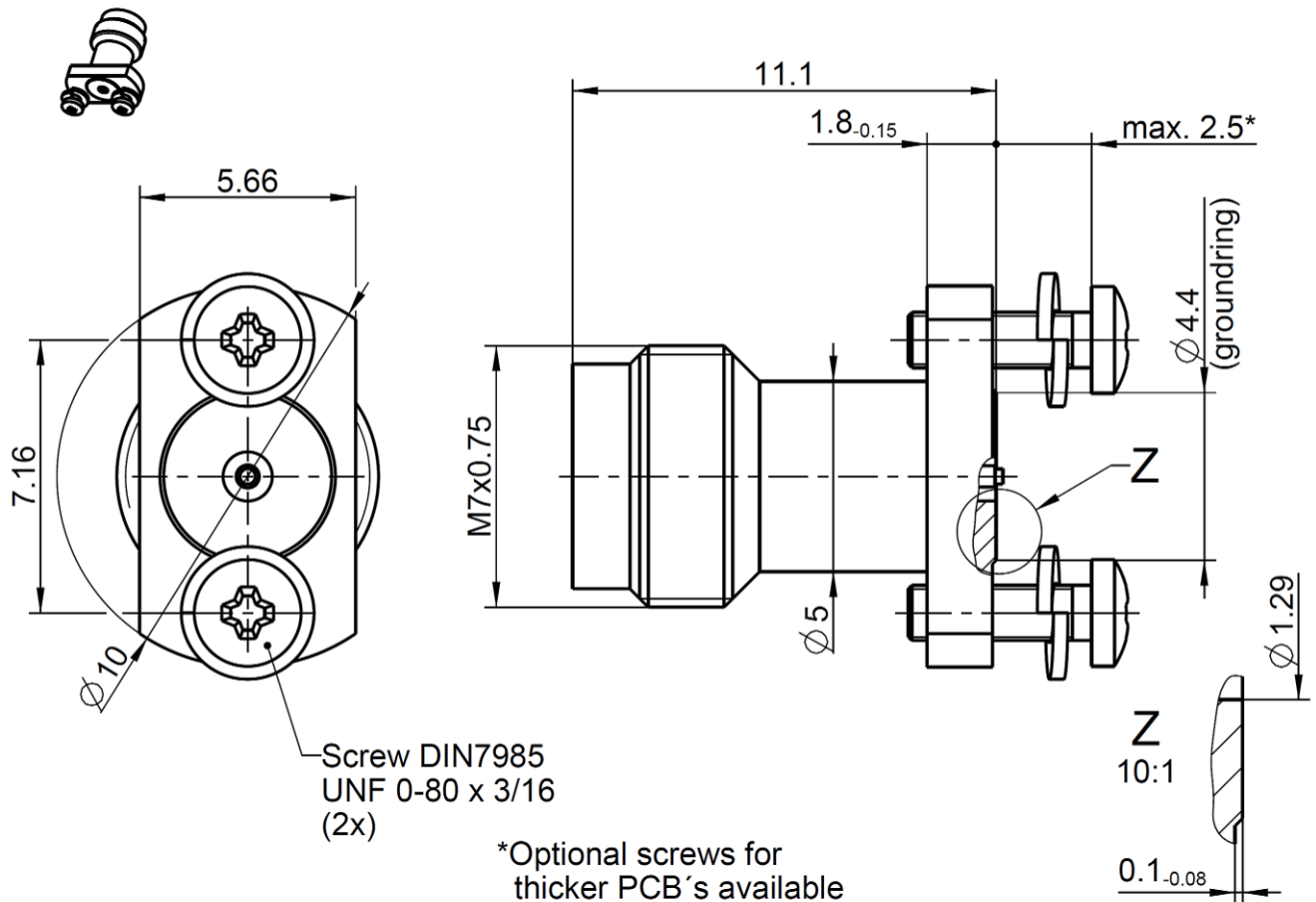




All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to
Mechanically compatible with

IEC 61169-40
RPC-1.85

Documents

PCB Layout

B 594

Material and plating

Connector parts

Center contact
Outer contact
Dielectric

Material

CuBe
Stainless steel
PTFE

Plating

Gold, min. 1.27 µm, over chemical nickel
Passivated

Technical Data Draft				Rosenberger			
RPC-2.40		Straight Jack PCB Solderless compression		09K721-40MS3			
Electrical data							
Impedance		50 Ω					
Frequency		DC to 50 GHz					
Return loss		≥ 26 dB, DC to 26.5 GHz ≥ 21 dB, 26.5 GHz to 40 GHz ≥ 17.5 dB, 40 GHz to 50 GHz					
Insertion loss		≤ 0.05 x √f(GHz) dB					
Insulation resistance		≥ 5 GΩ					
Center contact resistance		≤ 4.0 mΩ					
Outer contact resistance		≤ 2.5 mΩ					
Test voltage		500 V rms					
Working voltage		150 V rms					
- Connector only, VSWR in application depends decisive on PCB layout -							
Mechanical data							
Mating cycles		≥ 500					
Mating Force PCB side		≤ 23 N					
Center contact captivation: axial		≥ 20 N					
Coupling test torque		1.65 Nm					
Recommended torque		0.80 Nm to 1.10 Nm					
Environmental data							
Storage temperature range		-55°C to +165°C					
Operating temperature range		-0°C to +165°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					
RoHS		compliant					
Accessories							
Available Screws DIN 7985-H-A2 UNF 0-80 (cylinder head screw) for different PCB thickness.							
3/16" length = Standard (already included with the connector)				DIN7985-H-A2 UNF 0-80x3/16			
1/4" length = Optional (PCB thickness min. 1.2 mm to max. 4.2 mm)				DIN7985-H-A2 UNF 0-80x1/4			
5/16" length = Optional (PCB thickness min. 2.8 mm to max. 5.7 mm)				DIN7985-H-A2 UNF 0-80x5/16			
3/8" length = Optional (PCB thickness min. 4.4 mm to max. 7.4 mm)				DIN7985-H-A2 UNF 0-80x3/8			
7/16" length = Optional (PCB thickness min. 6.0 mm to max. 8.9 mm)				DIN7985-H-A2 UNF 0-80x7/16			
Tooling							
N/A							
Weight							
2.3 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
Martin Moder	21.01.16	Herbert Babinger	06.02.17	200	17-m054	M. Knoll	06.02.17
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