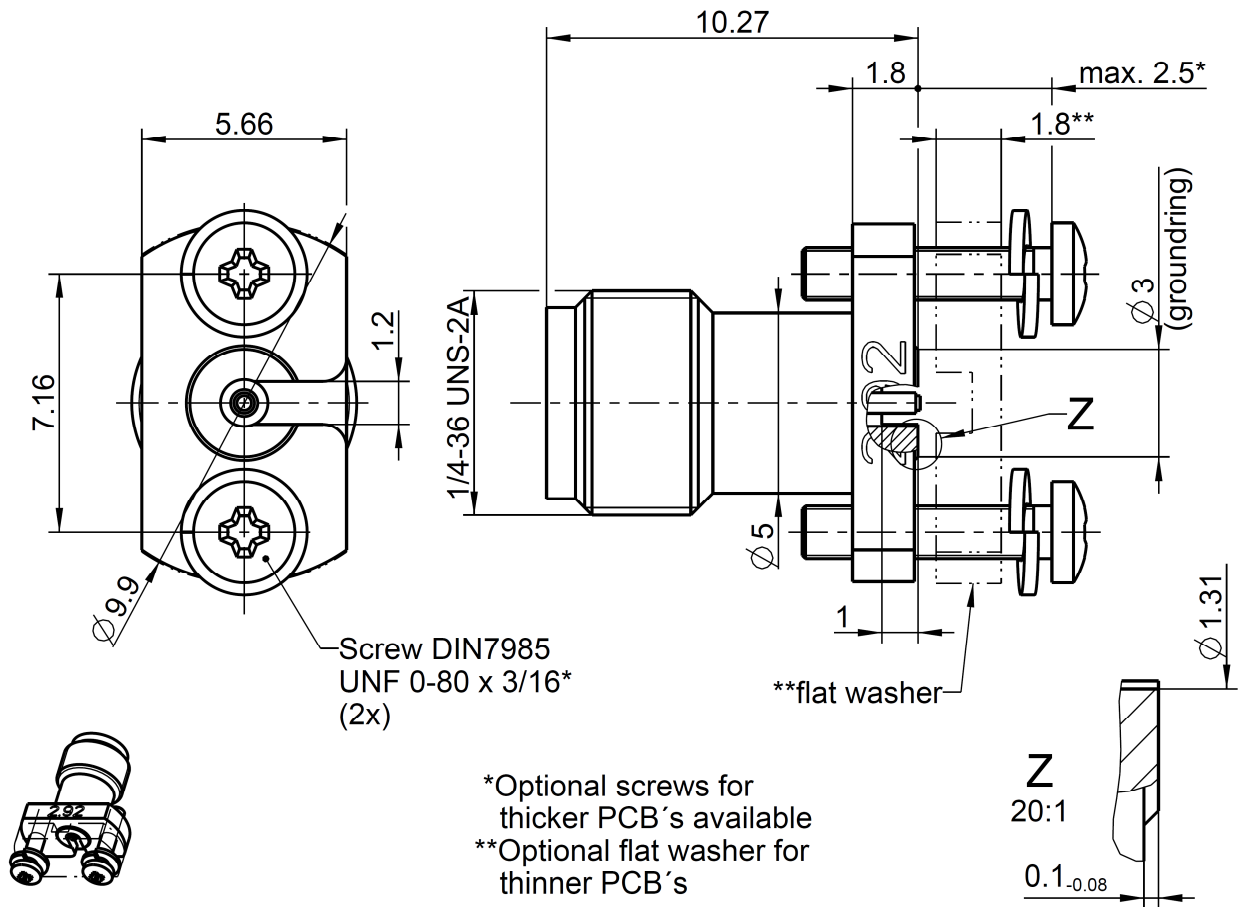


RPC-2.92

Straight Jack PCB
Economic Solderless
Connector – For Microstrip

02K722-40MS3



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

Interface

According to
Mechanically compatible with

IEC 61169-35
RPC-3.50 and SMA

Documents

PCB layout
Handling instruction

B 594E
HI 039

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 Sheet				Rosenberger			
RPC-2.92		Straight Jack PCB Economic Solderless Connector – For Microstrip		02K722-40MS3			
Electrical data Impedance50 Ω FrequencyDC to 40 GHz Return loss≥ 21 dB, DC to 26.5 GHz ≥ 15 dB, 26.5 GHz to 40 GHz Insertion loss≤ 0.04 x √f(GHz) dB Insulation resistance≥ 5 GΩ Test voltage750 V rms Working voltage250 V rms RF-leakage≥ 100 dB up to 1 GHz - Return Loss in application depends decisive on PCB layout - Mechanical data Mating cycles Interface≥ 500 Mating cycles PCB side≥ 300 typical (at 20°C, sea level, non-permanent duration) Mating force PCB side≤ 20 N Center contact captivation≥ 20 N Coupling test torque RPC-2.921.70 Nm Typically torque for the screws0.15 Nm Recommended torque RPC-2.920.80 Nm to 1.10 Nm Environmental data Storage temperature range-40°C to +85°C Operating temperature range-0°C to +85°C CorrosionMIL-STD-202, Method 101, Condition B VibrationMIL-STD-202, Method 204, Condition D ShockMIL-STD-202, Method 213, Condition I Moisture resistanceMIL-STD-202, Method 106 RoHScompliant 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. 1.8 mm to max. 4.2 mm)DIN7985-H-A2 UNF 0-80x1/4 5/16" length = Optional (PCB thickness min. 3.2 mm to max. 5.7 mm)DIN7985-H-A2 UNF 0-80x5/16 3/8" length = Optional (PCB thickness min. 4.8 mm to max. 7.5 mm)DIN7985-H-A2 UNF 0-80x3/8 7/16" length = Optional (PCB thickness min. 6.4 mm to max. 8.9 mm)DIN7985-H-A2 UNF 0-80x7/16 Flat Washer = Optional 08K723-40M/60L (recommended screw 1/4" for PCB size min. 0 mm to max. 2.4mm) Tooling N/A Weight 2.2 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	Approved	Date	Rev.	Engineering change number	Name	Date
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