

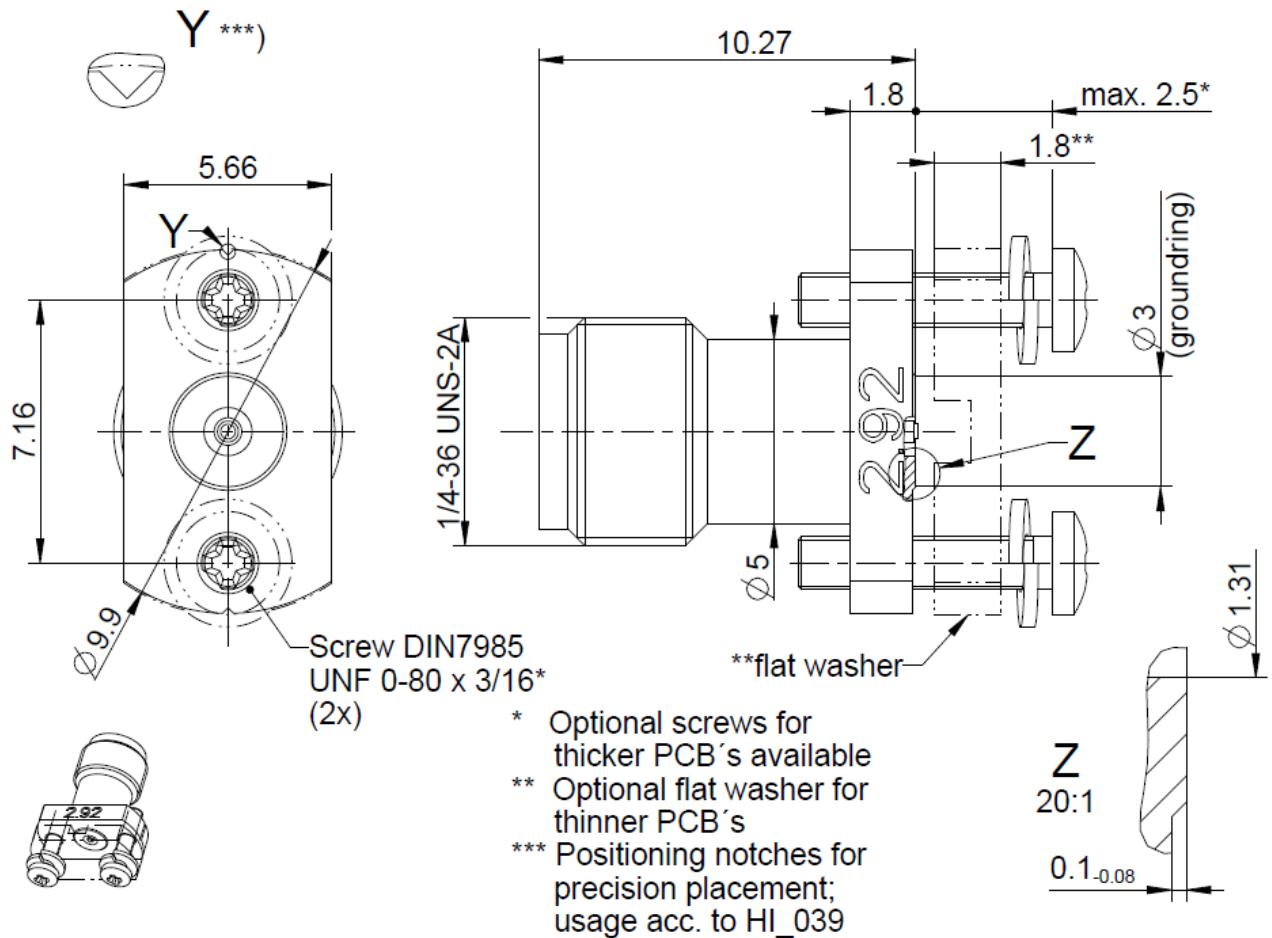
Technical Data Sheet

Rosenberger

RPC-2.92

Straight Jack PCB
Economic Solderless
Connector

02K721-40MS3



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 594A
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

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RPC-2.92		Straight Jack PCB Economic Solderless Connector		02K721-40MS3			
Electrical data Impedance Frequency Return loss Insertion loss Insulation resistance Test voltage Working voltage RF-leakage 50 Ω DC to 40 GHz ≥ 21 dB, DC to 26.5 GHz ≥ 15 dB, 26.5 GHz to 40 GHz ≤ 0.04 x √f(GHz) dB ≥ 5 GΩ 750 V rms 250 V rms ≥ 100 dB up to 1 GHz - Return loss in application depends decisive on PCB layout -							
Mechanical data Mating cycles Interface Mating cycles PCB side Mating force PCB side Center contact captivation Coupling test torque RPC-2.92 Typically torque for the screws Recommended torque RPC-2.92 ≥ 500 ≥ 300 typical (at 20°C, sea level, non-permanent duration) ≤ 20 N ≥ 20 N 1.70 Nm 0.15 Nm 0.80 Nm to 1.10 Nm							
Environmental data Storage temperature range Operating temperature range Corrosion Vibration Shock Moisture resistance RoHS -40°C to +85°C -0°C to +85°C MIL-STD-202, Method 101, Condition B MIL-STD-202, Method 204, Condition D MIL-STD-202, Method 213, Condition I MIL-STD-202, Method 106 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) 1/4" length = Optional (PCB thickness min. 1.8 mm to max. 4.2 mm) 5/16" length = Optional (PCB thickness min. 3.2 mm to max. 5.7 mm) 3/8" length = Optional (PCB thickness min. 4.8 mm to max. 7.5 mm) 7/16" length = Optional (PCB thickness min. 6.4 mm to max. 8.9 mm) Flat Washer = Optional 08K723-40M/60L (recommended screw 1/4" for PCB size min. 0 mm to max. 2.4mm) DIN7985-H-A2 UNF 0-80x3/16 DIN7985-H-A2 UNF 0-80x1/4 DIN7985-H-A2 UNF 0-80x5/16 DIN7985-H-A2 UNF 0-80x3/8 DIN7985-H-A2 UNF 0-80x7/16							
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	
F. Reiner		16.02.16		M. Moder		11.05.23	
Rev.		Engineering change number		Name		Date	
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