



# Technical Data Sheet

# Rosenberger

RPC-2.92 Straight Jack PCB  
Economic Solderless  
Connector

## 02K724-40MS3

### Electrical data

Impedance 50 Ω  
 Frequency DC to 43.5 GHz  
 Return loss ≥ 21 dB, DC to 26.5 GHz  
 ≥ 15 dB, 26.5 GHz to 43.5 GHz  
 Insertion loss ≤ 0.04 x √f(GHz) dB  
 Insulation resistance ≥ 5 GΩ  
 Test voltage 750 V rms  
 Working voltage 250 V rms  
 RF-leakage ≥ 100 dB up to 1 GHz  
 - Connector only, 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-2.92 1.70 Nm  
 Typically torque for the screws 0.15 Nm  
 Recommended torque RPC-2.92 0.80 Nm to 1.10 Nm

### Environmental data

Temperature range -55°C to +125°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 lengths.  
 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  
 Flat Washer = Optional 08K723-40M/60L (recommended screw 1/4" for PCB size min. 0 mm to max. 2.4mm)

### Tooling

N/A

### Weight

2.9 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
Martin Moder	17.06.21	H. Babinger	30.11.23	a00	23-s211	Matthias Gehl	30.11.23

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