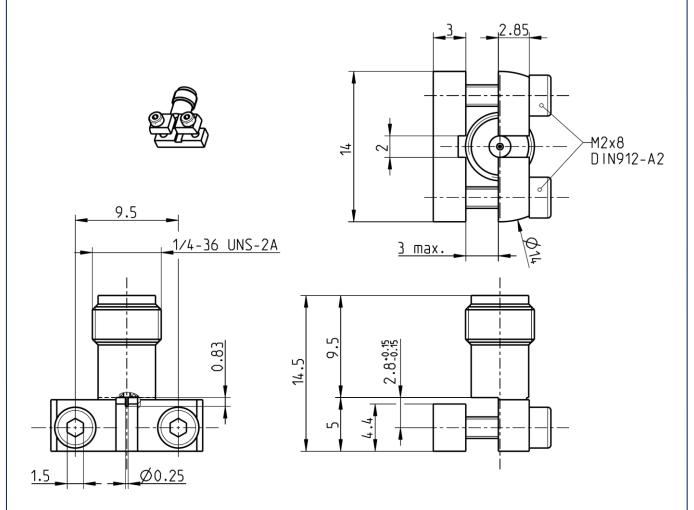
Technical Data Sheet

Rosenberger

RPC-2.92

Right Angle Jack PCB

02K243-40ME3



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

B 208

Material and plating

Connector parts

Center contact Outer contact Dielectric 1 Dielectric 2

Screws

Material

CuBe Brass PEEK PTFE Stainless steel **Plating**

Gold, min. 1.27 $\mu m,$ over chemical nickel Gold, min. 0.8 $\mu m,$ over chemical nickel

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1/2

Technical Data Sheet

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Electrical data

Impedance 50Ω

Frequency DC to 40 GHz

Return loss \geq 14 dB, DC to 40 GHz

Insertion loss $\leq 0.1 \text{ x} \sqrt{f(GHz)} dB$

 $\begin{array}{ll} \mbox{Insulation resistance} & \geq 5 \ \mbox{G}\Omega \\ \mbox{Center contact resistance} & \leq 3.0 \ \mbox{m}\Omega \\ \mbox{Outer contact resistance} & \leq 2.0 \ \mbox{m}\Omega \\ \mbox{Test voltage} & 750 \ \mbox{V rms} \\ \mbox{Working voltage} & 250 \ \mbox{V rms} \end{array}$

RF-leakage ≥ 100 dB up to 1 GHz

- Connector only, VSWR in application depends decisive on PCB layout -

Mechanical data

Mating cycles ≥ 500 Center contact captivation $\geq 20 \text{ N}$ Coupling test torquemax. 0.40 NmRecommended torque0.30 Nm

Environmental data

Temperature range -40°C to +85°C

Thermal shock MIL-STD-202, Method 107, Condition B
Corrosion MIL-STD-202, Method 101, Condition B
Vibration MIL-STD-202, Method 204, Condition D
Shock MIL-STD-202, Method 213, Condition I

Moisture resistance MIL-STD-202, Method 106 Max. soldering temperature IEC 61760-1, +260°C for 10 sec.

RoHS compliant

Tooling

N/A

Weight

4.3 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
Herbert Babinger	04.08.06	Martin Moder	11.02.16	c00	16-0004	Georg Schiele	11.02.16

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2/2

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