

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Documents PCB layout

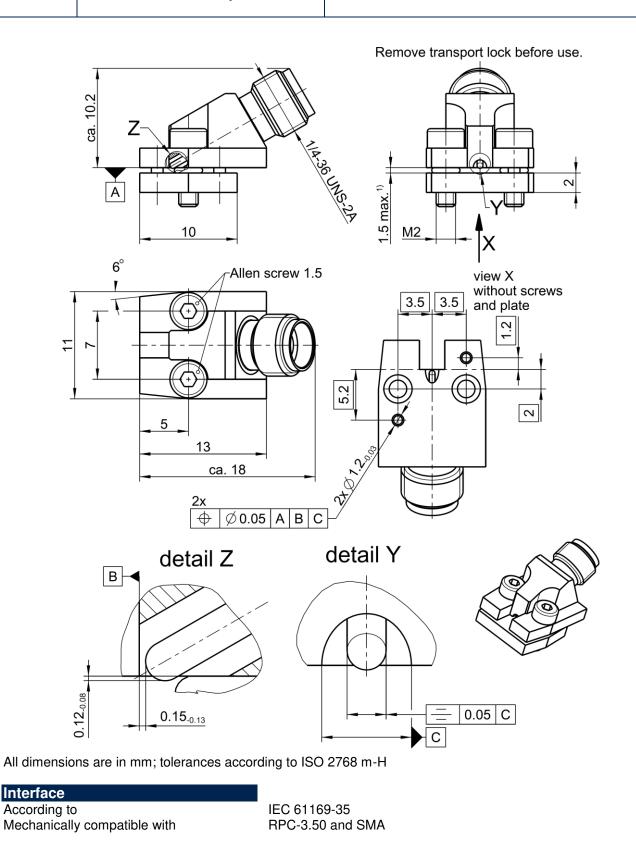
Technical Data Sheet

Rosenberger

RPC-2.92

SMD Connector jack

02K80F-40ML5



MB 425

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Technical Data Sheet

Rosenberger

RPC-2.92

SMD Connector jack

02K80F-40ML5

Material and plating

Connector parts
Center contact
Outer contact PCB side
Outer contact RPC-2.92 side

Dielectric

Material Plating

CuBe AuroDur®, gold plated
CuBe or equiv.
CuBe or equiv.
AuroDur®, gold plated
AuroDur®, gold plated

PEEK

Electrical data

Impedance 50Ω

Frequency DC to 40 GHz

Return loss \geq 21 dB, DC to 26.5 GHz \geq 19 dB, 26.5 GHz to 40 GHz

Insertion loss $\leq 0.04 \text{ x } \sqrt{\text{f(GHz)}} \text{ dB}$

 $\begin{array}{ll} \mbox{Insulation resistance} & \geq 5 \ \mbox{G}\Omega \\ \mbox{Test voltage} & 750 \ \mbox{V rms} \\ \mbox{Working voltage} & 250 \ \mbox{V rms} \end{array}$

- Return loss in application depends decisive on PCB layout -

Mechanical data

 $\begin{array}{lll} \text{Mating cycles PCB side} & \geq 300 \\ \text{Mating cycles RPC-2.92 side} & \geq 500 \\ \text{Center contact captivation} & \geq 20 \text{ N} \\ \text{Coupling test torque RPC-2.92} & 1.70 \text{ Nm} \\ \end{array}$

Recommended torque RPC-2.92 0.80 Nm to 1.10 Nm Recommended torque Allen screw 1.5 0.20 Nm to 0.30 Nm

PCB thickness max.¹ 1.5 mm typical; dimension expandable with longer screws

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 N/A (connector is only screwed on, not soldered)

RoHS compliant

Tooling

Allen wrench 1.5 mm

Packing

Standard 1 pce in box 50 pcs in blister

Weight 6.7 g/pce

products, we reserve the right to make changes judged to be necessary.

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

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M. Scherbauer	26.01.18	Herbert Babinger	26.01.18	a00	18-s051	Georg Schiele	26.01.18

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