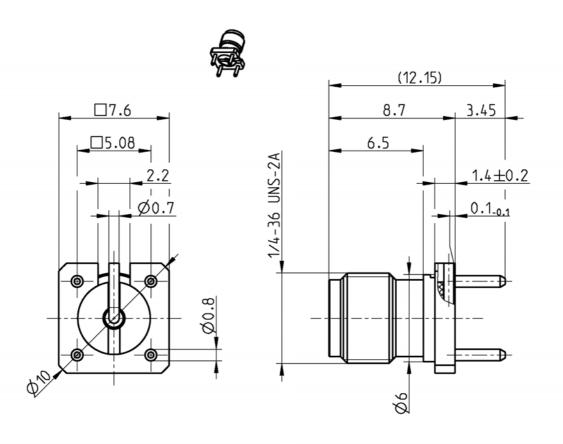
# **Rosenberger®** TECHNICAL DATA SHEET

**SMA Economy** 

STRAIGHT JACK PCB

32K141-40ML5



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

## Interface

According to

IEC 60169-15; EN 122110; MIL-STD-348A, Fig. 310

## **Documents**

PCB layout

Tape & reel packaging

B 201

VG 155.20000

## Material and plating

**Connector parts** 

Center contact Outer contact Dielectric

Material **Plating** 

Beryllium copper AuroDur, gold plated AuroDur, gold plated **Brass** 

**PTFE** 

RF\_35/11.05/3.1

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## TECHNICAL DATA SHEET



# SMA Economy

# STRAIGHT JACK PCB

## 32K141-40ML5

## Electrical data

Impedance 50  $\Omega$ 

Frequency DC to 12.4 GHz

VSWR  $\leq 1.1 + 0.02 \text{ x f [GHz]}$ 

 $\begin{array}{ll} \text{Insertion loss} & \leq 0.04 \text{ x } \sqrt{\text{f(GHz)}} \text{ dB} \\ \text{Insulation resistance} & \geq 5 \text{ x} 10^3 \text{ M}\Omega \end{array}$ 

 $\begin{array}{lll} \text{Center contact resistance} & \leq 3 \text{ m}\Omega \\ \text{Outer contact resistance} & \leq 2 \text{ m}\Omega \\ \text{Test voltage} & 1000 \text{ V rms} \\ \text{Working voltage} & 480 \text{ V rms} \\ \end{array}$ 

Power handling (at 20 °C, sea level, VSWR 1.0)  $\leq$  200 W @ 2 GHz RF-leakage  $\geq$  100 dB up to 1 GHz

#### Mechanical data

 $\begin{array}{lll} \text{Mating cycles} & \text{min. 100} \\ \text{Center contact captivation: axial} & \geq 20 \text{ N} \\ & \text{radial} & \geq 1 \text{ Ncm} \\ \text{Coupling test torque} & \text{max. 0.6 Nm} \\ \text{Recommended torque} & 0.5 \text{ Nm} \\ \end{array}$ 

## Environmental data

Temperature range -65°C to +165°C

Thermal shock MIL-STD-202, Meth. 107, Cond. B
Corrosion MIL-STD-202, Meth. 101, Cond. B
Vibration MIL-STD-202, Meth. 204, Cond. D
Shock MIL-STD-202, Meth. 213, Cond. I

Moisture resistance MIL-STD-202, Meth. 106

Max. soldering temperature IEC 61760-1, +260°C for 10 sec.

2002/95/EC (RoHS) compliant

### **Tooling**

N/A

## Suitable cables

N/A

## **Packing**

Standard 100 pcs. in blister; 200 pcs in tape & reel Weight 1.3 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
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<sup>-</sup> Connector only, VSWR in application depends decisive on PCB layout