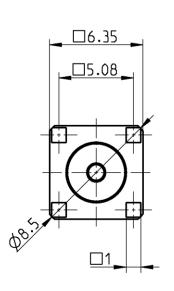
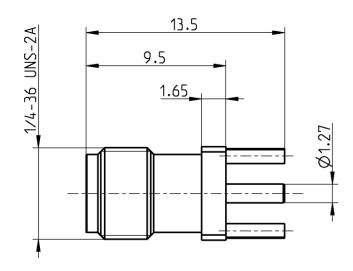
Technical Data Sheet		Rosenberger		
SMA	Straight Jack PCB	32K101-400L5		







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

B 30B

# Material and plating Connector parts

Center contact

CuBe

Outer contact

CuBe or equiv.

Dielectric

PTFE

Material

#### **Plating**

AuroDur®, gold plated AuroDur®, gold plated

Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de

Tel. : +49 8684 18-0

Email: info@rosenberger.de

Page

1/2

## **Technical Data Sheet**

## Rosenberger

**SMA** 

Straight Jack PCB

32K101-400L5

#### Electrical data

Impedance  $50 \Omega$ 

Frequency DC to 18 GHz

VSWR  $\leq 1.05 + 0.005 \text{ x f [GHz]}$ , DC to 8 GHz

 $\leq$  1.30, 8 to 18 GHz

Insertion loss  $\leq 0.03 \text{ x} \sqrt{\text{f(GHz)}} \, dB$ 

 $\begin{array}{lll} \mbox{Insulation resistance} & \geq 5 \ \mbox{x} 10^3 \ \mbox{M}\Omega \\ \mbox{Center contact resistance} & \leq 3 \ \mbox{m}\Omega \\ \mbox{Outer contact resistance} & \leq 2 \ \mbox{m}\Omega \\ \mbox{Test voltage} & 1000 \ \mbox{V rms} \\ \mbox{Working voltage} & 480 \ \mbox{V rms} \\ \end{array}$ 

Power handling (at 20 °C, sea level, VSWR 1.0)  $\leq$  200 W @ 2 GHz;  $\leq$  100 W @ 10 GHz

RF-leakage ≥ 100 dB up to 1 GHz

- VSWR in application depends decisive on PCB layout -

#### Mechanical data

 $\begin{array}{ll} \text{Mating cycles} & \text{min. 500} \\ \text{Center contact captivation: axial} & \geq 27 \text{ N} \\ \text{radial} & \geq 3 \text{ Ncm} \end{array}$ 

Coupling test torque max. 1.7 Nm Recommended torque 0.8 Nm to 1.1 Nm

#### **Environmental data**

Temperature range
-55°C to +155°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.

RoHS compliant

## **Tooling**

N/A

#### Suitable cables

N/A

#### Weight

Weight 1.4 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
Schmid M.	08.03.07	Chr. Janßen	04.11.20	d00	20-1927	S. Huber-Siegl	04.11.20

Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de

Tel. : +49 8684 18-0 Email : info@rosenberger.de Page

2/2