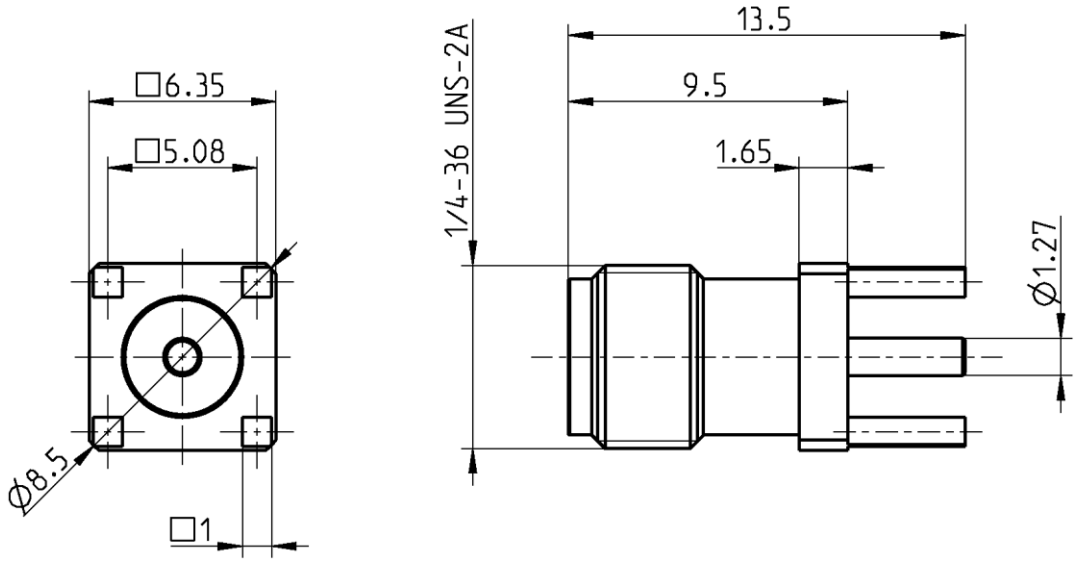
Technical Data Sheet		Rosenberger
SMA	Straight Jack PCB	**32K101-400L5**



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	Material	Plating
Center contact	CuBe	AuroDur®, gold plated
Outer contact	CuBe or equiv.	AuroDur®, gold plated
Dielectric	PTFE	

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Electrical data

Impedance	50 Ω	
Frequency	DC to 18 GHz	
VSWR	≤ 1.05 + 0.005 x f [GHz],	DC to 8 GHz
	≤ 1.30,	8 to 18 GHz
Insertion loss	≤ 0.03 x $\sqrt{f(GHz)}$ dB	
Insulation resistance	≥ 5 x10^3 MΩ	
Center contact resistance	≤ 3 mΩ	
Outer contact resistance	≤ 2 mΩ	
Test voltage	1000 V rms	
Working voltage	480 V rms	
Power handling (at 20 °C, sea level, VSWR 1.0)	≤ 200 W @ 2 GHz; ≤ 100 W @ 10 GHz	
RF-leakage	≥ 100 dB up to 1 GHz	

- VSWR in application depends decisive on PCB layout -

Mechanical data

Mating cycles	min. 500
Center contact captivation: axial	≥ 27 N
radial	≥ 3 Ncm
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

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.

Draft	Date	Approved	Date
Schmid M.	08.03.07	Chr. Janßen	04.11.20

Rev.	Engineering change number	Name	Date
d00	20-1927	S. Huber-Siegl	04.11.20

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