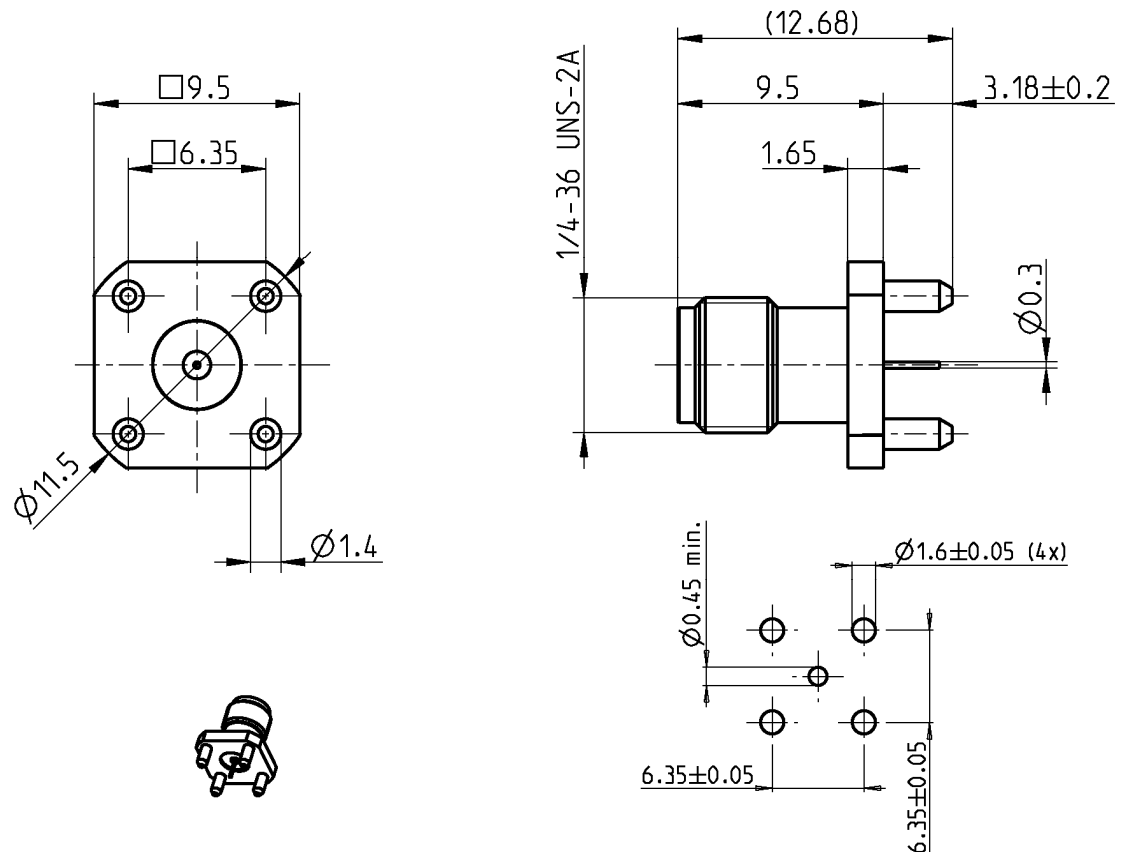




All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to IEC 60169-15; EN 122110; MIL-STD-348

Documents

PCB layout see drawing

Material and plating

Connector parts

Center contact
Outer contact
Dielectric

Material

Beryllium copper
Brass
PTFE

Plating

AuroDur, gold plated
AuroDur, gold plated

TECHNICAL DATA SHEET

Rosenberger

SMA
Economy STRAIGHT JACK PCB

32K153-400L5

Electrical data

Impedance	50 Ω
Frequency	DC to 12.4 GHz
VSWR	$\leq 1.1 + 0.01 \times f \text{ [GHz]}$
Insertion loss	$\leq 0.05 \times \sqrt{f(\text{GHz})} \text{ dB}$
Insulation resistance	$\geq 5 \times 10^3 \text{ M}\Omega$
Center contact resistance	$\leq 3 \text{ m}\Omega$
Outer contact resistance	$\leq 2 \text{ m}\Omega$
Test voltage	1000 V rms
Working voltage	480 V rms
Power handling (at 20 °C, sea level, VSWR 1.0)	$\leq 200 \text{ W @ 2 GHz}$
RF-leakage	$\geq 100 \text{ dB up to 1 GHz}$

- VSWR in application depends decisive on PCB layout -

Mechanical data

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

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.
RoHS	compliant

Tooling

N/A

Suitable cables

N/A

Weight

Weight	2.1 g/pce
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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
A. König	27/09/05	J_Krautenbacher	26.07.16	b00	15-1629	I_Wallner	26.07.16
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