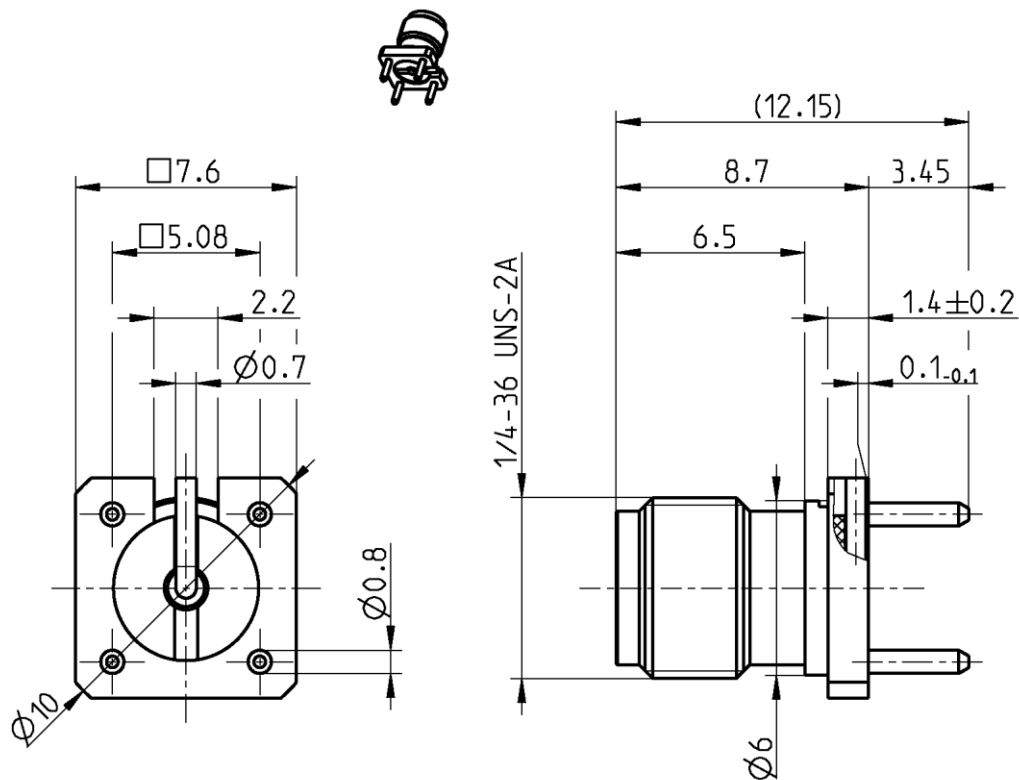




All dimensions are in mm; tolerances according to ISO 2768 m-H

## Interface

According to

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

## Documents

PCB layout

B 201

Tape & reel packaging

VG 155.20000

## Material and plating

### Connector parts

Center contact

Outer contact

Dielectric

### Material

CuBe

Brass

PTFE

### Plating

AuroDur®, gold plated

AuroDur®, gold plated

# Technical Data Sheet

# Rosenberger

SMA

Straight Jack PCB

32K141-40ML5

## Electrical data

|                                                |                                                      |
|------------------------------------------------|------------------------------------------------------|
| Impedance                                      | 50 Ω                                                 |
| Frequency                                      | DC to 12.4 GHz                                       |
| VSWR                                           | $\leq 1.1 + 0.02 \times f \text{ [GHz]}$             |
| Insertion loss                                 | $\leq 0.04 \times \sqrt{f \text{ (GHz)}} \text{ dB}$ |
| 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                                     | $\geq 100 \text{ dB up to 1 GHz}$                    |

- Connector only, 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 | 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.

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



| Draft    | Date     | Approved    | Date     |
|----------|----------|-------------|----------|
| König A. | 12.10.05 | Chr. Janßen | 05.11.20 |

| Rev. | Engineering change number | Name           | Date     |
|------|---------------------------|----------------|----------|
| d00  | 20-1927                   | S. Huber-Siegl | 05.11.20 |

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