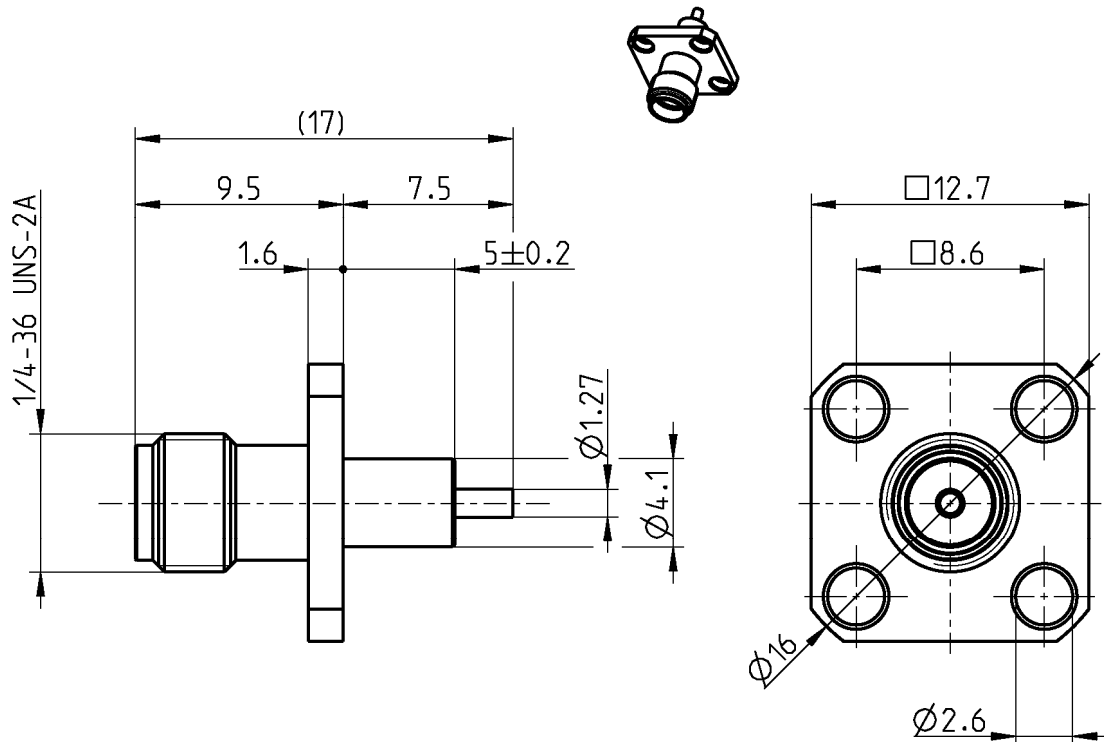




All dimensions are in mm; tolerances according to ISO 2768 m-H

#### Interface

According to

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

#### Documents

Panel piercing

B 55a

#### 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 PANEL JACK  
STRAIGHT TERMINAL**

**32K486-500L5**

## Electrical data

|                                                |                                                                  |
|------------------------------------------------|------------------------------------------------------------------|
| Impedance                                      | 50 Ω                                                             |
| Frequency                                      | DC to 12.4 GHz                                                   |
| VSWR                                           | ≤ 1.05 + 0.005 x f [GHz] @ DC to 8 GHz<br>≤ 1.30 @ 8 to 12.4 GHz |
| Insertion loss                                 | ≤ 0.04 x √f(GHz) dB                                              |
| Insulation resistance                          | ≥ 5 x10 <sup>3</sup> 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                                                  |
| RF-leakage                                     | ≥ 100 dB up to 1 GHz                                             |

## Mechanical data

|                                   |             |
|-----------------------------------|-------------|
| Mating cycles                     | min. 100    |
| Center contact captivation: axial | ≥ 20 N      |
| radial                            | ≥ 1 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          |
| RoHS                | compliant                       |

## Tooling

N/A

## Suitable cables

N/A

## Weight

|        |            |
|--------|------------|
| Weight | 2.74 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          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|----------|--------------------------------------------------------------------------------------------|---------------------------|-----------|---------------|
| Rong Fang                                                                                                                                              | 11/05/04 | J_Krautenbacher | 21.07.16 | e00                                                                                        | 15-1629                   | I_Wallner | 21.07.16      |
| Rosenberger Hochfrequenztechnik GmbH & Co. KG<br>P.O.Box 1260 D-84526 Tittmoning Germany<br><a href="http://www.rosenberger.de">www.rosenberger.de</a> |          |                 |          | Tel.: +49 8684 18-0<br>email: <a href="mailto:info@rosenberger.de">info@rosenberger.de</a> |                           |           | Page<br>2 / 2 |