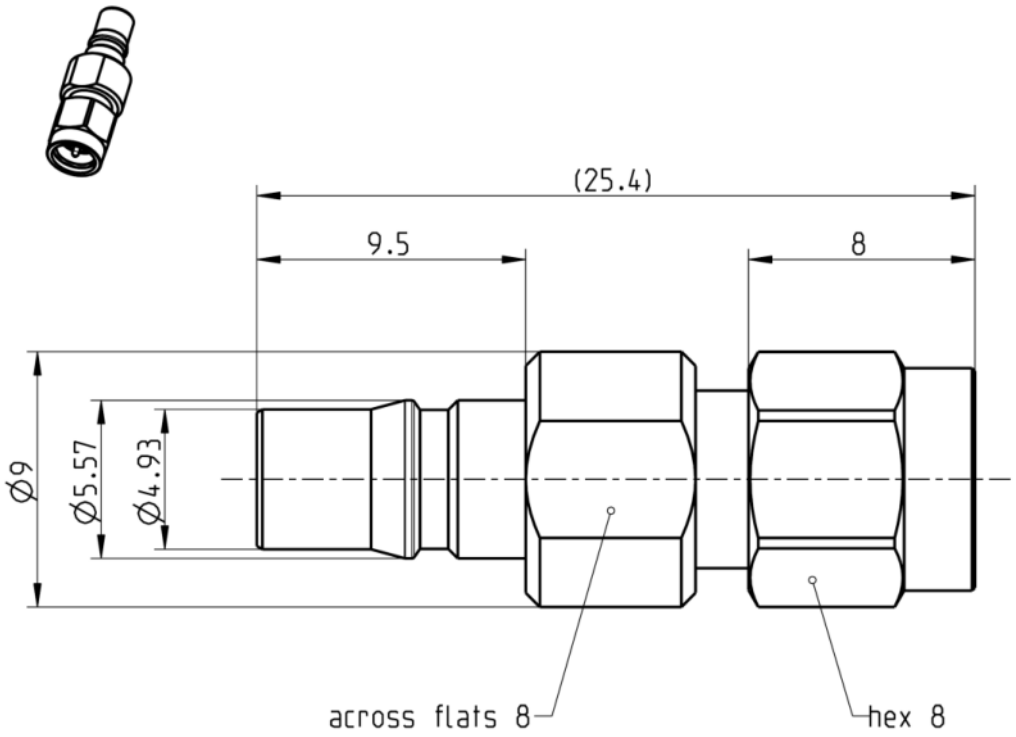
| Technical Data Sheet | | Rosenberger |
|---|---|---|
| QMA | Adaptor<br>QMA Jack – SMA Plug | **28K132-S00N5** |




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

## Interface

| | | |
|---|---|---|
| According to | QMA side: | IEC 61169-50 |
| | SMA side: | IEC 60169-15; EN 122110; MIL-STD-348A, Fig. 310 |

## Documents

N/A

## Material and plating

| **Connector parts** | **Material** | **Plating** |
|---|---|---|
| Center contact | CuBe | AuroDur®, gold plated |
| Outer contact | Brass | White bronze(e.g. Optalloy®) |
| Dielectric | PTFE | |

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| Technical Data Sheet | | Rosenberger |
|---|---|---|
| QMA | Adaptor<br>QMA Jack – SMA Plug | **28K132-S00N5** |

## Electrical data

| | | |
|---|---|---|
| Impedance | 50 Ω | |
| Frequency | DC to 18 GHz | |
| Return loss | ≥ 32 dB, DC to 3 GHz<br>≥ 28 dB, 3 to 6 GHz | |
| Insertion loss | ≤ 0.03 x $\sqrt{f(GHz)}$ dB, DC to 6 GHz | |
| Insulation resistance | ≥ 5 x$10^3$ MΩ | |
| Center contact resistance | ≤ 3 mΩ, QMA side | ≤ 3 mΩ, SMA side |
| Outer contact resistance | ≤ 2.5 mΩ, QMA side | ≤ 2 mΩ, SMA side |
| Test voltage | 1000 V rms | |
| Working voltage | 480 V rms | |
| RF-leakage | ≥ 95 dB up to 2 GHz<br>≥ 80 dB up to 4 GHz<br>≥ 70 dB up to 6 GHz | |

## Mechanical data

| | QMA side | SMA side |
|---|---|---|
| Mating cycles | min. 100 | min. 100 |
| Coupling nut retention | N/A | ≥ 180 N |
| Center contact captivation: axial | ≥ 20 N | ≥ 20 N |
| Coupling test torque | N/A | 0.5 Nm |
| Recommended torque | N/A | max. 0.6 Nm |
| Engagement force | typ. 25 N | N/A |
| Disengagement force | typ. 20 N | N/A |
| Retention force for interface | 60 N min. | N/A |

## Environmental data

| | |
|---|---|
| Temperature range | -40°C to +85°C |
| Storage temperature | -40°C to +85°C |
| Thermal shock | IEC 60169-1 16.4 (-40 / +85°C) |
| Corrosion | IEC 60169-1 16.7 (48 hrs) |
| Vibration | IEC 60068-2-64 random |
| Damp heat, steady state | IEC 60169-1 16.3 (96 hrs) |
| RoHS | compliant |

## Tooling

N/A

## Suitable cables

N/A

## Weight

| | |
|---|---|
| Weight | 5.8 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. | 02.02.06 | Chr. Janßen | 02.11.20 |

| Rev. | Engineering change number | Name | Date |
|---|---|---|---|
| e00 | 20-1927 | S. Huber-Siegl | 02.11.20 |

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