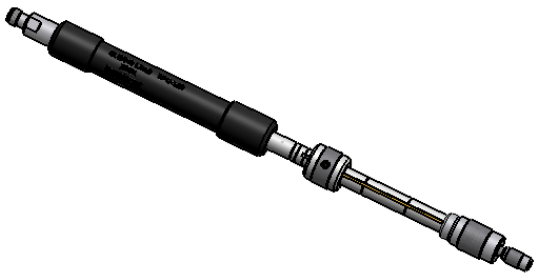
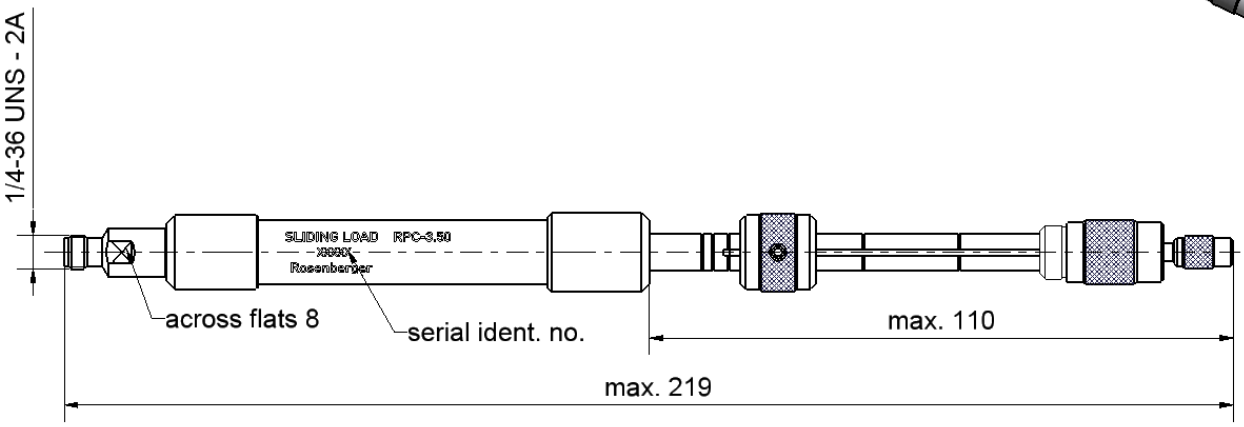
| Technical Data Sheet | | Rosenberger |
|---|---|---|
| RPC-3.50 | Sliding Load<br>Jack | **03K150-G300** |






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

## Interface

| | |
|---|---|
| According to | IEC 60169-23 |
| Mechanically compatible with | RPC-2.92 and SMA |

## Documents

| | |
|---|---|
| Application note | AN001 “Calibration Services” |

## Material and plating

| **Connector parts** | **Material** | **Plating** |
|---|---|---|
| Center conductor | CuBe | Gold, min. 1.27 µm, over nickel |
| Outer conductor | Brass | Gold, min. 1.27 µm, over nickel |
| Body | Aluminum | black anodized |

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## Electrical data

| | |
|---|---|
| Frequency range | 4 GHz to 26.5 GHz |
| Return loss | ≥ 26.4 dB, 4 GHz to 5 GHz |
| | ≥ 32 dB, 5 GHz to 26.5 GHz |
| Power handling | ≤ 1 W |
| Air line accuracy | ≥ 50 dB |
| Repeatability of sliding position | ≥ 60 dB, 4 GHz to 26.5 GHz |

## Mechanical data

| | |
|---|---|
| Mating cycles | ≥ 500 |
| Maximum torque | 1.70 Nm |
| Recommended torque | 0.90 Nm |
| Gauge | adjustable |

## General standard definitions

For proper operation the vector network analyzer (VNA) needs a model describing the electrical behaviour of this calibration standard. The different models, units, and terms used will depend on the VNA type and they will have to be entered into the VNA. All values are based on typical geometry and plating.

| | |
|---|---|
| Offset $Z_o$ / Impedance / $Z_o$ | 50 Ω |
| Min. Frequency | 4 GHz |

## Environmental data

| | |
|---|---|
| Operating temperature range[1] | +20 °C to +26 °C |
| Rated temperature range of use[2] | 0 °C to +50 °C |
| Storage temperature range | -40 °C to +85 °C |
| RoHS | compliant |

[1] *Temperature range over which these specification are valid.*

[2] *This range is underneath and above the operating temperature range, within the sliding load is fully functional and could be used without damage.*

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## Declaration of calibration options

**Factory Calibration**

Standard delivery for this calibration standard includes a Factory Calibration. The Calibration Certificate issued reports individual calibration results, traceable to national / international standards. Model based standard definitions are reported in an Agilent/Keysight, Rohde & Schwarz and Anritsu compatible VNA format.

**Accredited Calibration**

Not available.

*For further, more detailed information see application note AN001 on the Rosenberger homepage.*

## Calibration interval

| | |
|---|---|
| Recommendation | 12 months |

## Packing

| | |
|---|---|
| Standard | 1 pce in pipe |
| Weight | 96.7 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.





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