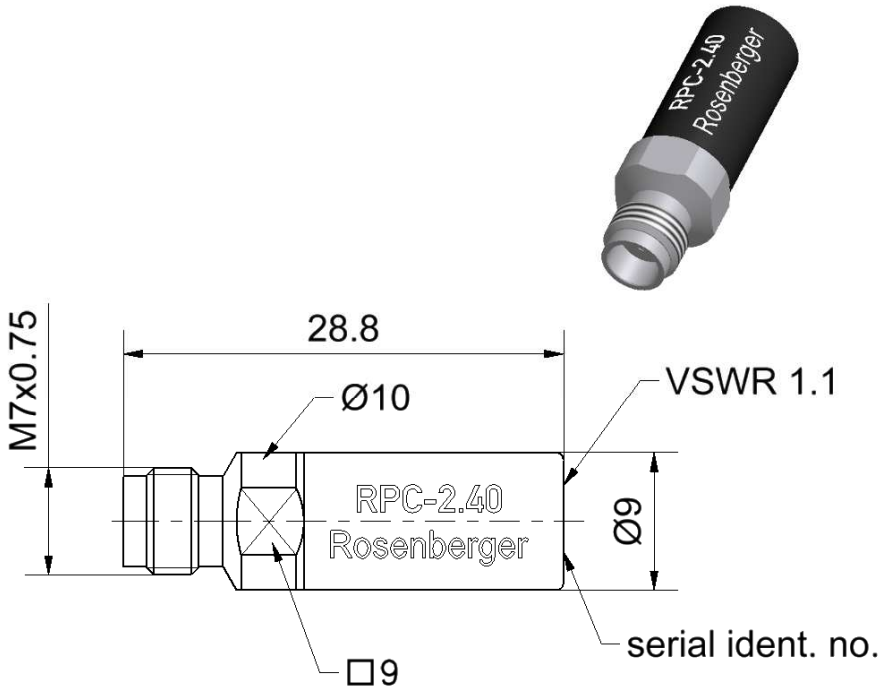
| Technical Data Sheet | | Rosenberger |
|---|---|---|
| RPC-2.40 | Mismatch<br>Jack | **09K150-055S3** |




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

## Interface

| | |
|---|---|
| According to | IEC 61169-40 |
| Mechanically compatible with | RPC-1.85 |

## Documents

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

## Material and plating

| **Connector parts** | **Material** | **Plating** |
|---|---|---|
| Center contact | Beryllium copper | Gold, min. 1.27 µm, over nickel |
| Outer contact | Stainless steel | Passivated |
| Dielectric | PS | |
| Substrate | $Al_2O_3$ | |





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|---|---|---|
| RPC-2.40 | Mismatch<br>Jack | **09K150-055S3** |

## Electrical data

| | |
|---|---|
| Frequency | DC to 50 GHz |
| Return loss | ≥ 1.1 ± 0.07, DC to 20 GHz |
| | ≥ 1.1 ± 0.13, 20 GHz to 50 GHz |
| DC Resistance | 55 Ω ± 0.275 Ω |
| Power handling (at 25 °C, sea level) | ≤ 0.5 W, derated linearity by 0.005 W/K |

## Mechanical data

| | |
|---|---|
| Mating cycles | ≥ 500 |
| Maximum torque | 1.65 Nm |
| Recommended torque | 0.90 Nm |
| Gauge | 0.00 mm to 0.03 mm |

## 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 mismatch is fully functional and could be used without damage.*

## 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.

**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 box |
| Weight | 7.2 g/pce |



| Draft | Date | Approved | Date |
|---|---|---|---|
| Marion Striegler | 19.08.14 | Markus Müller | 20.07.18 |

| Rev. | Engineering change number | Name | Date |
|---|---|---|---|
| c00 | 18-1027 | Marion Striegler | 20.07.18 |

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