

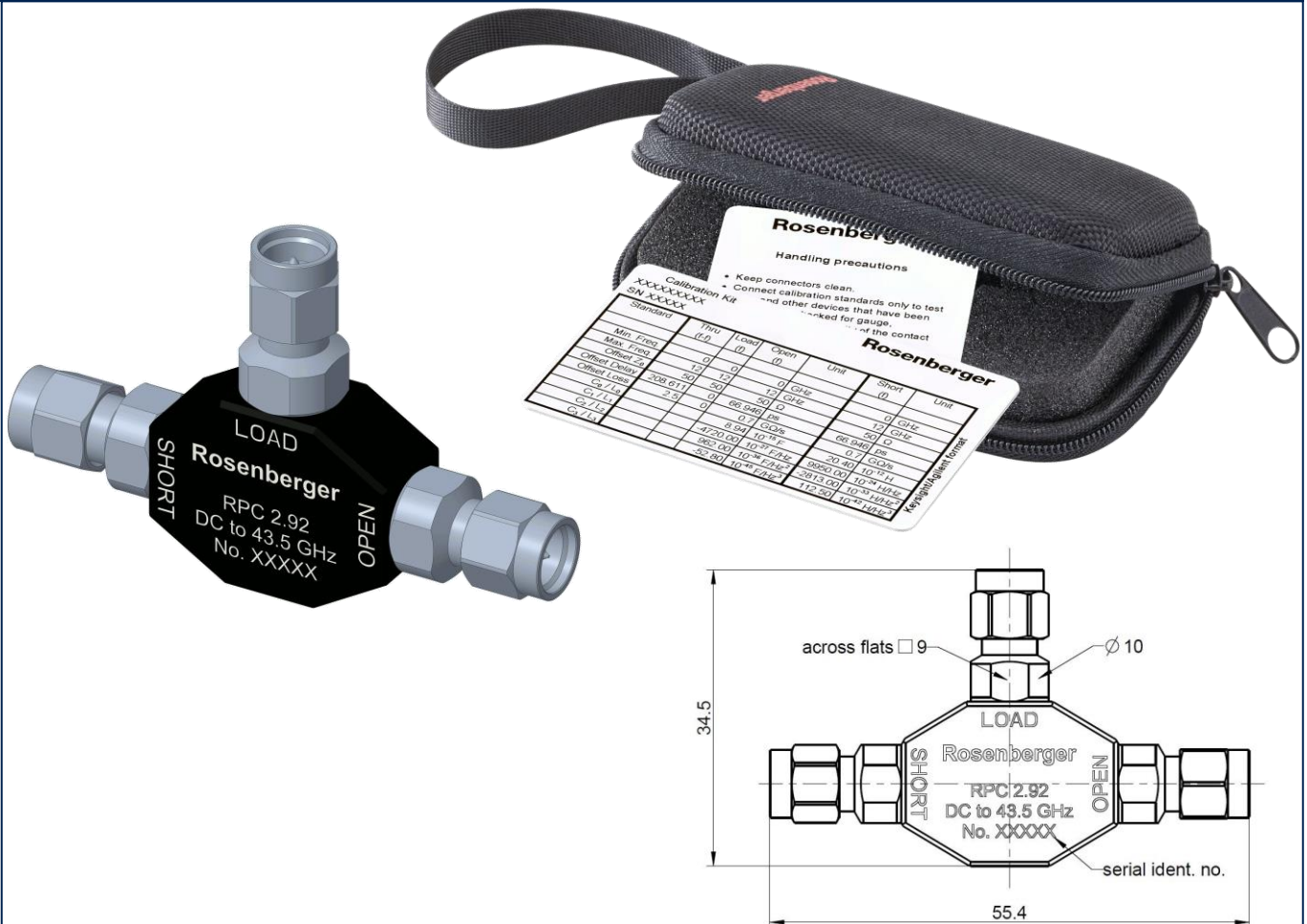
## Technical Data Sheet

# Rosenberger

RPC-2.92

Calibration Kit  
Plug

02S34R-MSOS3



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

### Interface

According to  
Mechanically compatible with

IEC 61169-35  
RPC-3.50 and SMA

### Documents

This kit is delivered with

- **Standard Definitions Card**  
Printed Standard Definitions that can be used on nearly all Vector Network Analyzers
- **Certificate of Testing**
- **Hard Shell Case**
- **Protection Caps**
- **User Manual**

### Material and plating

#### Connector parts

Center conductor  
Outer conductor  
Coupling nut  
Body  
Dielectric  
Substrate

#### Material

CuBe  
Stainless steel  
Stainless steel  
Aluminum  
PS  
Al<sub>2</sub>O<sub>3</sub>

#### Plating

Gold, min. 1.27 µm, over nickel  
Passivated  
Passivated  
black anodized

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |                                                                                                              |
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| Technical Data Sheet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                      | Rosenberger                                                                                                  |
| RPC-2.92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Calibration Kit Plug | 02S34R-MSOS3                                                                                                 |
| <div>Electrical data</div> <p>Frequency range DC to 43.5 GHz</p> <p><b>Open</b><br/>Error from nominal phase<sup>1</sup></p> <p>≤ 1.5°, DC to 4 GHz<br/> ≤ 4.0°, 4 GHz to 26.5 GHz<br/> ≤ 5.0°, 26.5 GHz to 43.5 GHz</p> <p><b>Short</b><br/>Error from nominal phase<sup>2</sup></p> <p>≤ 1.5°, DC to 4 GHz<br/> ≤ 4.0°, 4 GHz to 26.5 GHz<br/> ≤ 5.0°, 26.5 GHz to 43.5 GHz</p> <p><b>Load</b><br/>Return loss</p> <p>≥ 40.0 dB, DC to 4 GHz<br/> ≥ 28.0 dB, 4 GHz to 26.5 GHz<br/> ≥ 25.0 dB, 26.5 GHz to 43.5 GHz</p> <p>DC Resistance 50 Ω ± 0.5 Ω<br/> Power handling (at 25 °C, sea level) ≤ 0.5 W, derate by 0.005 W/K</p> <p><sup>1</sup> The nominal phase is defined by the Offset Delay, the Offset Loss and the Fringing Capacitances<br/> <sup>2</sup> The nominal phase is defined by the Offset Delay, the Offset Loss and the Short Inductance</p> <div>Mechanical data</div> <p>Mating cycles ≥ 500<br/> Maximum torque 1.70 Nm<br/> Recommended torque 0.90 Nm<br/> Gauge 0.00 mm to 0.08 mm</p> <div>General standard definitions</div> <p>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.</p> <p><b>Open</b></p> <p>Offset Z<sub>0</sub> / Impedance / Z<sub>0</sub> 50 Ω<br/> Offset Delay 28.353 ps<br/> Length (electrical) / Offset Length 8.50 mm<br/> Offset Loss 2.40 GΩ/s<br/> Loss 0.0118 dB/√GHz<br/> Fringing Capacitances</p> <p>C<sub>0</sub> = -10.6000 x 10<sup>-15</sup> F / -10.6000 fF<br/> C<sub>1</sub> = -1130.00 x 10<sup>-27</sup> F/Hz / -1.13000 fF /GHz<br/> C<sub>2</sub> = 52.0000 x 10<sup>-36</sup> F/Hz<sup>2</sup> / 0.05200 fF /GHz<sup>2</sup><br/> C<sub>3</sub> = -0.60000 x 10<sup>-45</sup> F/Hz<sup>3</sup> / -0.00060 fF /GHz<sup>3</sup></p> |                      |                                                                                                              |
| Rosenberger Hochfrequenztechnik GmbH & Co. KG<br>P.O.Box 1260 D-84526 Tittmoning Germany<br><a href="http://www.rosenberger.com">www.rosenberger.com</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      | Tel. : +49 8684 18-0<br>Email : <a href="mailto:info@rosenberger.com">info@rosenberger.com</a><br>Page 2 / 3 |

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| <div>Short</div> <div><div>Offset <math>Z_0</math> / Impedance / <math>Z_0</math></div><div>Offset Delay</div><div>Length (electrical) / Offset Length</div><div>Offset Loss</div><div>Loss</div><div>Short Inductance</div></div> <div><div>50 <math>\Omega</math></div><div>28.353 ps</div><div>8.50 mm</div><div>2.40 G<math>\Omega</math>/s</div><div>0.0118 dB/ <math>\sqrt{\text{GHz}}</math></div><div><div><div><math>L_0 = 0.0000 \times 10^{-12} \text{ H}</math></div><div>/</div><div>0.0000 pH</div></div><div><math>L_1 = 0.0000 \times 10^{-24} \text{ H/Hz}</math> / 0.0000 pH/GHz</div><div><math>L_2 = 0.0000 \times 10^{-33} \text{ H/Hz}^2</math> / 0.0000 pH/GHz<sup>2</sup></div><div><math>L_3 = 0.0000 \times 10^{-42} \text{ H/Hz}^3</math> / 0.0000 pH/GHz<sup>3</sup></div></div></div> <tr><td colspan="8"><div>Load</div><div><div>Offset <math>Z_0</math> / Impedance / <math>Z_0</math></div><div>Offset Delay</div><div>Length (electrical) / Offset Length</div><div>Offset Loss</div><div>Loss</div></div><div><div>50 <math>\Omega</math></div><div>0.0000 ps</div><div>0.000 mm</div><div>0.00 G<math>\Omega</math>/s</div><div>0.0000 dB/ <math>\sqrt{\text{GHz}}</math></div></div><tr><td colspan="8"><div>Environmental data</div><div><div>Operating temperature range<sup>3</sup></div><div>Rated temperature range of use<sup>4</sup></div><div>Storage temperature range</div><div>RoHS</div></div><div><div>+20 °C to +26 °C</div><div>0 °C to +50 °C</div><div>- 40 °C to +85 °C</div><div>compliant</div></div><tr><td colspan="8"><div><sup>3</sup> Temperature range over which these specifications are valid.</div><div><sup>4</sup> This range is underneath and above the operating temperature range, within the calibration kit is fully functional and could be used without damage</div><tr><td colspan="8"><div>Declaration of documentation</div><div>Standard delivery for this kit includes Test Results. 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| <div>Load</div> <div><div>Offset <math>Z_0</math> / Impedance / <math>Z_0</math></div><div>Offset Delay</div><div>Length (electrical) / Offset Length</div><div>Offset Loss</div><div>Loss</div></div> <div><div>50 <math>\Omega</math></div><div>0.0000 ps</div><div>0.000 mm</div><div>0.00 G<math>\Omega</math>/s</div><div>0.0000 dB/ <math>\sqrt{\text{GHz}}</math></div></div> <tr><td colspan="8"><div>Environmental data</div><div><div>Operating temperature range<sup>3</sup></div><div>Rated temperature range of use<sup>4</sup></div><div>Storage temperature range</div><div>RoHS</div></div><div><div>+20 °C to +26 °C</div><div>0 °C to +50 °C</div><div>- 40 °C to +85 °C</div><div>compliant</div></div><tr><td colspan="8"><div><sup>3</sup> Temperature range over which these specifications are valid.</div><div><sup>4</sup> This range is underneath and above the operating temperature range, within the calibration kit is fully functional and could be used without damage</div><tr><td colspan="8"><div>Declaration of documentation</div><div>Standard delivery for this kit includes Test Results. 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| <div>Environmental data</div> <div><div>Operating temperature range<sup>3</sup></div><div>Rated temperature range of use<sup>4</sup></div><div>Storage temperature range</div><div>RoHS</div></div> <div><div>+20 °C to +26 °C</div><div>0 °C to +50 °C</div><div>- 40 °C to +85 °C</div><div>compliant</div></div> <tr><td colspan="8"><div><sup>3</sup> Temperature range over which these specifications are valid.</div><div><sup>4</sup> This range is underneath and above the operating temperature range, within the calibration kit is fully functional and could be used without damage</div><tr><td colspan="8"><div>Declaration of documentation</div><div>Standard delivery for this kit includes Test Results. The documentation issued reports which quantities were tested individually, traceable to national / international standards. 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| <div>Declaration of documentation</div> <div>Standard delivery for this kit includes Test Results. The documentation issued reports which quantities were tested individually, traceable to national / international standards. Model based standard definitions of the calibration standards are reported in Agilent / Keysight, Rohde &amp; Schwarz and Anritsu compatible VNA format.</div> <tr><td colspan="8"><div>Inspection interval</div><div><div>Recommendation</div><div>12 months</div></div><tr><td colspan="8"><div>Packing</div><div><div>Weight</div><div>29 g/pce</div></div><tr><td colspan="8"><div><div><div>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. 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| Rosenberger Hochfrequenztechnik GmbH & Co. KG<br>P.O.Box 1260 D-84526 Tittmoning Germany<br><a href="http://www.rosenberger.com">www.rosenberger.com</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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