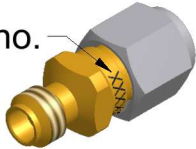
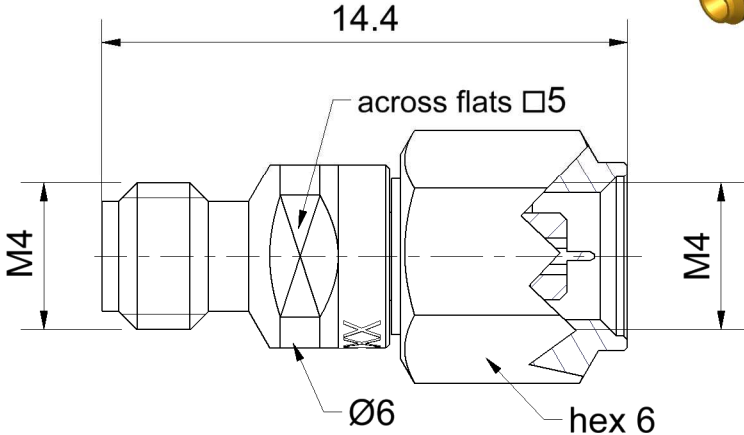


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|   |                      |  |           |  |  |              |              |  |           |  |  |  |     |  |                      |  |  |                 |          |         |                  |      |                                 |                 |                |                                 |              |                 |            |            |      |  |
|---|----------------------|--|-----------|--|--|--------------|--------------|--|-----------|--|--|--|-----|--|----------------------|--|--|-----------------|----------|---------|------------------|------|---------------------------------|-----------------|----------------|---------------------------------|--------------|-----------------|------------|------------|------|--|
| Technical Data Sheet  |                      | Rosenberger  |           |  |  |              |              |  |           |  |  |  |     |  |                      |  |  |                 |          |         |                  |      |                                 |                 |                |                                 |              |                 |            |            |      |  |
| RPC-1.00  | Adaptor<br>Plug/Jack | 01S101-K20D3   |           |  |  |              |              |  |           |  |  |  |     |  |                      |  |  |                 |          |         |                  |      |                                 |                 |                |                                 |              |                 |            |            |      |  |
| <div><div><div>serial ident.no.</div></div><div></div></div> <p>All dimensions are in mm; tolerances according to ISO 2768 m-H</p> <table><tr><td colspan="3">Interface</td></tr><tr><td>According to</td><td colspan="2">IEC 61169-31</td></tr><tr><td colspan="3">Documents</td></tr><tr><td></td><td colspan="2">N/A</td></tr><tr><td colspan="3">Material and plating</td></tr><tr><td>Connector parts</td><td>Material</td><td>Plating</td></tr><tr><td>Center conductor</td><td>CuBe</td><td>Gold, min. 1.27 µm, over nickel</td></tr><tr><td>Outer conductor</td><td>CuBe or equiv.</td><td>Gold, min. 1.27 µm, over nickel</td></tr><tr><td>Coupling nut</td><td>Stainless steel</td><td>Passivated</td></tr><tr><td>Dielectric</td><td>PEEK</td><td></td></tr></table> |                      |  | Interface |  |  | According to | IEC 61169-31 |  | Documents |  |  |  | N/A |  | Material and plating |  |  | Connector parts | Material | Plating | Center conductor | CuBe | Gold, min. 1.27 µm, over nickel | Outer conductor | CuBe or equiv. | Gold, min. 1.27 µm, over nickel | Coupling nut | Stainless steel | Passivated | Dielectric | PEEK |  |
| Interface   |                      |  |           |  |  |              |              |  |           |  |  |  |     |  |                      |  |  |                 |          |         |                  |      |                                 |                 |                |                                 |              |                 |            |            |      |  |
| According to  | IEC 61169-31         |  |           |  |  |              |              |  |           |  |  |  |     |  |                      |  |  |                 |          |         |                  |      |                                 |                 |                |                                 |              |                 |            |            |      |  |
| Documents   |                      |  |           |  |  |              |              |  |           |  |  |  |     |  |                      |  |  |                 |          |         |                  |      |                                 |                 |                |                                 |              |                 |            |            |      |  |
|   | N/A                  |  |           |  |  |              |              |  |           |  |  |  |     |  |                      |  |  |                 |          |         |                  |      |                                 |                 |                |                                 |              |                 |            |            |      |  |
| Material and plating  |                      |  |           |  |  |              |              |  |           |  |  |  |     |  |                      |  |  |                 |          |         |                  |      |                                 |                 |                |                                 |              |                 |            |            |      |  |
| Connector parts   | Material             | Plating  |           |  |  |              |              |  |           |  |  |  |     |  |                      |  |  |                 |          |         |                  |      |                                 |                 |                |                                 |              |                 |            |            |      |  |
| Center conductor  | CuBe                 | Gold, min. 1.27 µm, over nickel                        |           |  |  |              |              |  |           |  |  |  |     |  |                      |  |  |                 |          |         |                  |      |                                 |                 |                |                                 |              |                 |            |            |      |  |
| Outer conductor   | CuBe or equiv.       | Gold, min. 1.27 µm, over nickel                        |           |  |  |              |              |  |           |  |  |  |     |  |                      |  |  |                 |          |         |                  |      |                                 |                 |                |                                 |              |                 |            |            |      |  |
| Coupling nut  | Stainless steel      | Passivated   |           |  |  |              |              |  |           |  |  |  |     |  |                      |  |  |                 |          |         |                  |      |                                 |                 |                |                                 |              |                 |            |            |      |  |
| Dielectric  | PEEK                 |  |           |  |  |              |              |  |           |  |  |  |     |  |                      |  |  |                 |          |         |                  |      |                                 |                 |                |                                 |              |                 |            |            |      |  |
| Rosenberger Hochfrequenztechnik GmbH & Co. KG<br>P.O.Box 1260    D-84526 Tittmoning    Germany<br>www.rosenberger.de  |                      | Tel.    : +49 8684 18-0<br>Email : info@rosenberger.de |           |  |  |              |              |  |           |  |  |  |     |  |                      |  |  |                 |          |         |                  |      |                                 |                 |                |                                 |              |                 |            |            |      |  |
|   |                      | Page<br>1 / 2  |           |  |  |              |              |  |           |  |  |  |     |  |                      |  |  |                 |          |         |                  |      |                                 |                 |                |                                 |              |                 |            |            |      |  |

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| Technical Data Sheet   |                      | Rosenberger  |          |   |                           |                |          |
|--|----------------------|--------------|----------|---|---------------------------|----------------|----------|
| RPC-1.00   | Adaptor<br>Plug/Jack | 01S101-K20D3 |          |   |                           |                |          |
| <div>Electrical data</div> <div>FrequencyDC to 110 GHz</div> <div>Return loss≥ 20 dB, DC to 20 GHz<br/>≥ 17 dB, 20 GHz to 50 GHz<br/>≥ 15 dB, 50 GHz to 75 GHz<br/>≥ 12 dB, 75 GHz to 110 GHz</div>  |                      |              |          |   |                           |                |          |
| <div>Mechanical data</div> <div>Mating cycles≥ 500</div> <div>Maximum torque0.70 Nm</div> <div>Recommended torque0.35 Nm</div> <div>Gauge0.00 mm to 0.03 mm</div>  |                      |              |          |   |                           |                |          |
| <div>General standard definitions</div> <div>For proper operation the vector network analyzer (VNA) needs a model describing the electrical behaviour of this 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.</div> <div>Offset Z<sub>0</sub> / Impedance / Z<sub>0</sub>50 Ω</div> <div>Offset Delay39.094 ps</div> <div>Length (electrical) / Offset Length11.72 mm</div> <div>Offset Loss7.90 GΩ/s</div> <div>Loss0.0268 dB/√GHz</div> |                      |              |          |   |                           |                |          |
| <div>Environmental data</div> <div>Operating temperature range<sup>1</sup>+20 °C to +26 °C</div> <div>Rated temperature range of use<sup>2</sup>0 °C to +50 °C</div> <div>Storage temperature range-40 °C to +85 °C</div> <div>RoHScompliant</div> <div><sup>1</sup> Temperature range over which these specification are valid.</div> <div><sup>2</sup> This range is underneath and above the operating temperature range, within the adaptor is fully functional and could be used without damage.</div>  |                      |              |          |   |                           |                |          |
| <div>Packing</div> <div>Standard1 pce in box</div> <div>Weight2.1 g/pce</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. In the effort to improve our products, we reserve the right to make changes judged to be necessary.</div>  |                      |              |          |   |                           |                |          |
| Draft  | Date                 | Approved     | Date     | Rev.  | Engineering change number | Name           | Date     |
| Herbert Babinger   | 23.03.06             | Ronny Mark   | 15.03.17 | g00   | 17-0439                   | Marcel Panicke | 15.03.17 |
| Rosenberger Hochfrequenztechnik GmbH & Co. KG<br>P.O.Box 1260 D-84526 Tittmoning Germany<br>www.rosenberger.de   |                      |              |          | Tel. : +49 8684 18-0<br>Email : info@rosenberger.de |                           | Page<br>2 / 2  |          |

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