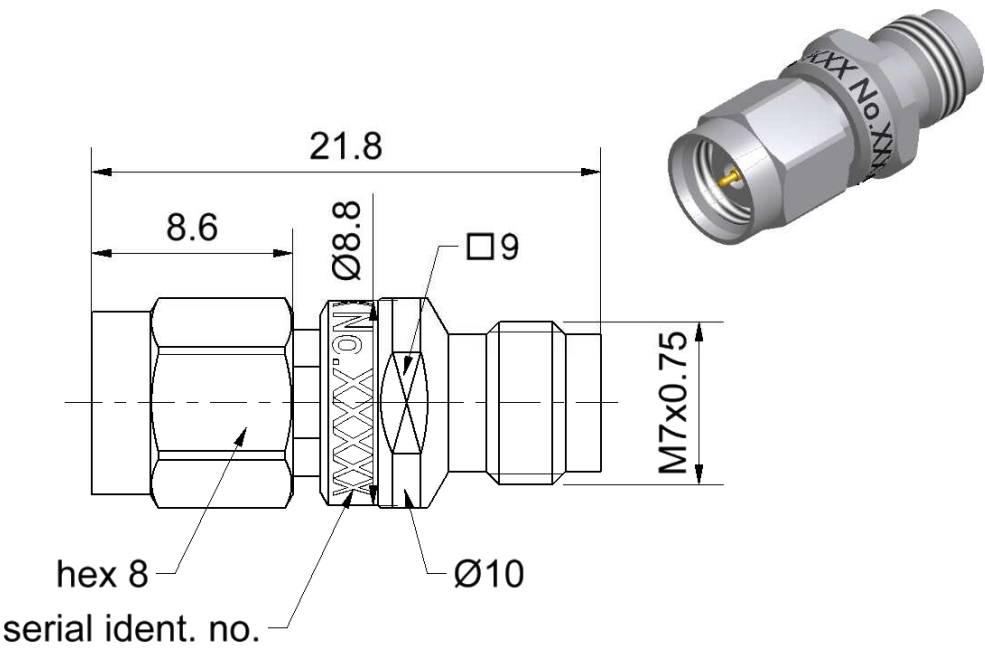


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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                             |                                                     |                        |                 |                |                         |      |                                 |                         |      |                                 |                 |                 |            |              |                 |            |            |    |  |           |                                |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------------------------------------------------|------------------------|-----------------|----------------|-------------------------|------|---------------------------------|-------------------------|------|---------------------------------|-----------------|-----------------|------------|--------------|-----------------|------------|------------|----|--|-----------|--------------------------------|--|
| Technical Data Sheet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             | Rosenberger                                         |                        |                 |                |                         |      |                                 |                         |      |                                 |                 |                 |            |              |                 |            |            |    |  |           |                                |  |
| RPC-1.85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Attenuator<br>RPC-1.85 Plug - RPC-1.85 Jack | 08AS102-K06S3                                       |                        |                 |                |                         |      |                                 |                         |      |                                 |                 |                 |            |              |                 |            |            |    |  |           |                                |  |
| <div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                             |                                                     |                        |                 |                |                         |      |                                 |                         |      |                                 |                 |                 |            |              |                 |            |            |    |  |           |                                |  |
| All dimensions are in mm; tolerances according to ISO 2768 m-H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                             |                                                     |                        |                 |                |                         |      |                                 |                         |      |                                 |                 |                 |            |              |                 |            |            |    |  |           |                                |  |
| <div><div>Interface</div><div>According to<br/>Mechanically compatible with</div><div>IEC 60169-32<br/>RPC-2.40</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                             |                                                     |                        |                 |                |                         |      |                                 |                         |      |                                 |                 |                 |            |              |                 |            |            |    |  |           |                                |  |
| <div><div>Documents</div><div>N/A</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                             |                                                     |                        |                 |                |                         |      |                                 |                         |      |                                 |                 |                 |            |              |                 |            |            |    |  |           |                                |  |
| <div><div>Material and plating</div><table><tr><td><b>Connector parts</b></td><td><b>Material</b></td><td><b>Plating</b></td></tr><tr><td>Center conductor - plug</td><td>CuBe</td><td>Gold, min. 1.27 µm, over nickel</td></tr><tr><td>Center conductor - jack</td><td>CuBe</td><td>Gold, min. 1.27 µm, over nickel</td></tr><tr><td>Outer conductor</td><td>Stainless steel</td><td>Passivated</td></tr><tr><td>Coupling nut</td><td>Stainless steel</td><td>Passivated</td></tr><tr><td>Dielectric</td><td>PS</td><td></td></tr><tr><td>Substrate</td><td>Al<sub>2</sub>O<sub>3</sub></td><td></td></tr></table></div> |                                             |                                                     | <b>Connector parts</b> | <b>Material</b> | <b>Plating</b> | Center conductor - plug | CuBe | Gold, min. 1.27 µm, over nickel | Center conductor - jack | CuBe | Gold, min. 1.27 µm, over nickel | Outer conductor | Stainless steel | Passivated | Coupling nut | Stainless steel | Passivated | Dielectric | PS |  | Substrate | Al <sub>2</sub> O <sub>3</sub> |  |
| <b>Connector parts</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Material</b>                             | <b>Plating</b>                                      |                        |                 |                |                         |      |                                 |                         |      |                                 |                 |                 |            |              |                 |            |            |    |  |           |                                |  |
| Center conductor - plug                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CuBe                                        | Gold, min. 1.27 µm, over nickel                     |                        |                 |                |                         |      |                                 |                         |      |                                 |                 |                 |            |              |                 |            |            |    |  |           |                                |  |
| Center conductor - jack                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CuBe                                        | Gold, min. 1.27 µm, over nickel                     |                        |                 |                |                         |      |                                 |                         |      |                                 |                 |                 |            |              |                 |            |            |    |  |           |                                |  |
| Outer conductor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Stainless steel                             | Passivated                                          |                        |                 |                |                         |      |                                 |                         |      |                                 |                 |                 |            |              |                 |            |            |    |  |           |                                |  |
| Coupling nut                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Stainless steel                             | Passivated                                          |                        |                 |                |                         |      |                                 |                         |      |                                 |                 |                 |            |              |                 |            |            |    |  |           |                                |  |
| Dielectric                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PS                                          |                                                     |                        |                 |                |                         |      |                                 |                         |      |                                 |                 |                 |            |              |                 |            |            |    |  |           |                                |  |
| Substrate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Al <sub>2</sub> O <sub>3</sub>              |                                                     |                        |                 |                |                         |      |                                 |                         |      |                                 |                 |                 |            |              |                 |            |            |    |  |           |                                |  |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                             | Page<br>1 / 2                                       |                        |                 |                |                         |      |                                 |                         |      |                                 |                 |                 |            |              |                 |            |            |    |  |           |                                |  |

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| Technical Data Sheet                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                             |  | Rosenberger                                         |  |          |               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------|--|-----------------------------------------------------|--|----------|---------------|
| RPC-1.85                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | Attenuator<br>RPC-1.85 Plug - RPC-1.85 Jack |  | 08AS102-K06S3                                       |  |          |               |
| <div>Electrical data</div> <div>Impedance50 Ω</div> <div>Frequency rangeDC to 67 GHz</div> <div>Return loss≥ 32 dB, DC to 4 GHz</div> <div>≥ 25 dB, 4 GHz to 26.5 GHz</div> <div>≥ 18 dB, 26.5 GHz to 37 GHz</div> <div>≥ 12 dB, 37 GHz to 67 GHz</div> <div>Attenuation6 dB ± 0.5 dB, DC to 26.5 GHz</div> <div>6 dB ± 1.0 dB, 26.5 GHz to 50 GHz</div> <div>6 dB ± 1.5 dB, 50 GHz to 67 GHz</div> <div>Power handling0.5 W at 25°C</div> |  |                                             |  |                                                     |  |          |               |
| <div>Mechanical data</div> <div>Mating cycles≥ 500</div> <div>Maximum torque1.65 Nm</div> <div>Recommended torque0.90 Nm</div> <div>Gauge0.00 mm to 0.03 mm</div>                                                                                                                                                                                                                                                                          |  |                                             |  |                                                     |  |          |               |
| <div>Environmental data</div> <div>Operating temperature range<sup>1</sup>+20 °C to +26 °C</div> <div>Storage temperature range0 °C to +50 °C</div> <div>RoHScompliant</div>                                                                                                                                                                                                                                                               |  |                                             |  |                                                     |  |          |               |
| <sup>1</sup> Temperature range over which these specifications are valid.                                                                                                                                                                                                                                                                                                                                                                  |  |                                             |  |                                                     |  |          |               |
| <div>Packing</div> <div>Standard1 pce in box</div> <div>Weight6.9 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     |               |
| Marcel Panicke                                                                                                                                                                                                                                                                                                                                                                                                                             |  | 17.01.08                                    |  | Lars Ramtke                                         |  | 18.06.15 |               |
| Rev.                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | Engineering change number                   |  | Name                                                |  | Date     |               |
| c00                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | 15-0783                                     |  | Marion Striegler                                    |  | 18.06.15 |               |
| 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 |