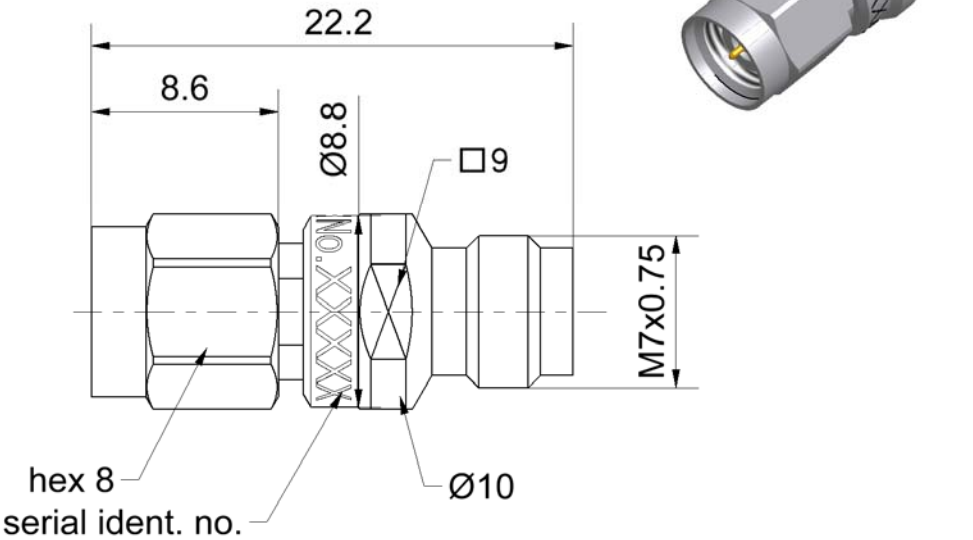


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|                                                                                                                                                        |                                             |                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Technical Data Sheet                                                                                                                                   |                                             | Rosenberger                                                                                                           |
| RPC-2.40                                                                                                                                               | Attenuator<br>RPC-2.40 Plug - RPC-2.40 Jack | 09AS102-K06S3                                                                                                         |
| <div></div>                                                         |                                             |                                                                                                                       |
| All dimensions are in mm; tolerances according to ISO 2768 m-H                                                                                         |                                             |                                                                                                                       |
| <b>Interface</b>                                                                                                                                       |                                             |                                                                                                                       |
| According to                                                                                                                                           |                                             | IEC 61169-40                                                                                                          |
| Mechanically compatible with                                                                                                                           |                                             | RPC-1.85                                                                                                              |
| <b>Documents</b>                                                                                                                                       |                                             |                                                                                                                       |
|                                                                                                                                                        |                                             | N/A                                                                                                                   |
| <b>Material and plating</b>                                                                                                                            |                                             |                                                                                                                       |
| <b>Connector parts</b>                                                                                                                                 |                                             |                                                                                                                       |
| Center conductor - plug                                                                                                                                | Material                                    | Plating                                                                                                               |
| Center conductor - jack                                                                                                                                | Beryllium copper                            | Gold, min. 1.27 µm, over nickel                                                                                       |
| Outer conductor                                                                                                                                        | Beryllium copper                            | Gold, min. 1.27 µm, over nickel                                                                                       |
| Coupling nut                                                                                                                                           | Stainless steel                             | Passivated                                                                                                            |
| Dielectric                                                                                                                                             | Stainless steel                             | Passivated                                                                                                            |
| Substrate                                                                                                                                              | PS                                          |                                                                                                                       |
|                                                                                                                                                        | Al <sub>2</sub> O <sub>3</sub>              |                                                                                                                       |
| Rosenberger Hochfrequenztechnik GmbH & Co. KG<br>P.O.Box 1260 D-84526 Tittmoning Germany<br><a href="http://www.rosenberger.de">www.rosenberger.de</a> |                                             | Tel. : +49 8684 18-0<br>Fax : +49 8684 18-499<br>Email : <a href="mailto:info@rosenberger.de">info@rosenberger.de</a> |
|                                                                                                                                                        |                                             | Page<br>1 / 2                                                                                                         |

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|                                                                                                                                                                                                                                                                                                                                              |          |                                             |          |                                                                                                                       |                           |                |                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------|---------------------------|----------------|-------------------|
| Technical Data Sheet                                                                                                                                                                                                                                                                                                                         |          |                                             |          | Rosenberger                                                                                                           |                           |                |                   |
| RPC-2.40                                                                                                                                                                                                                                                                                                                                     |          | Attenuator<br>RPC-2.40 Plug - RPC-2.40 Jack |          | 09AS102-K06S3                                                                                                         |                           |                |                   |
| <b>Electrical data</b>                                                                                                                                                                                                                                                                                                                       |          |                                             |          |                                                                                                                       |                           |                |                   |
| Impedance                                                                                                                                                                                                                                                                                                                                    |          | 50 Ω                                        |          |                                                                                                                       |                           |                |                   |
| Frequency range                                                                                                                                                                                                                                                                                                                              |          | DC to 50 GHz                                |          |                                                                                                                       |                           |                |                   |
| Return loss                                                                                                                                                                                                                                                                                                                                  |          | ≥ 32 dB, DC to 4 GHz                        |          |                                                                                                                       |                           |                |                   |
|                                                                                                                                                                                                                                                                                                                                              |          | ≥ 21 dB, 4 GHz to 18 GHz                    |          |                                                                                                                       |                           |                |                   |
|                                                                                                                                                                                                                                                                                                                                              |          | ≥ 18 dB, 18 GHz to 37 GHz                   |          |                                                                                                                       |                           |                |                   |
|                                                                                                                                                                                                                                                                                                                                              |          | ≥ 14 dB, 37 GHz to 50 GHz                   |          |                                                                                                                       |                           |                |                   |
| Attenuation                                                                                                                                                                                                                                                                                                                                  |          | 6 dB ± 0.5 dB, DC to 26.5 GHz               |          |                                                                                                                       |                           |                |                   |
|                                                                                                                                                                                                                                                                                                                                              |          | 6 dB ± 1.5 dB, 26.5 GHz to 50 GHz           |          |                                                                                                                       |                           |                |                   |
| Power handling                                                                                                                                                                                                                                                                                                                               |          | ≤ 0.5 W                                     |          |                                                                                                                       |                           |                |                   |
| <b>Mechanical data</b>                                                                                                                                                                                                                                                                                                                       |          |                                             |          |                                                                                                                       |                           |                |                   |
| Mating cycles                                                                                                                                                                                                                                                                                                                                |          | ≥ 500                                       |          |                                                                                                                       |                           |                |                   |
| Maximum torque                                                                                                                                                                                                                                                                                                                               |          | 1.65 Nm                                     |          |                                                                                                                       |                           |                |                   |
| Recommended torque                                                                                                                                                                                                                                                                                                                           |          | 0.90 Nm                                     |          |                                                                                                                       |                           |                |                   |
| Gauge                                                                                                                                                                                                                                                                                                                                        |          | 0.00 mm to 0.03 mm                          |          |                                                                                                                       |                           |                |                   |
| <b>Environmental data</b>                                                                                                                                                                                                                                                                                                                    |          |                                             |          |                                                                                                                       |                           |                |                   |
| Operating temperature range <sup>1</sup>                                                                                                                                                                                                                                                                                                     |          | +20 °C to +26 °C                            |          |                                                                                                                       |                           |                |                   |
| Storage temperature range                                                                                                                                                                                                                                                                                                                    |          | 0 °C to +50 °C                              |          |                                                                                                                       |                           |                |                   |
| RoHS                                                                                                                                                                                                                                                                                                                                         |          | compliant                                   |          |                                                                                                                       |                           |                |                   |
| <sup>1</sup> Temperature range over which these specifications are valid.                                                                                                                                                                                                                                                                    |          |                                             |          |                                                                                                                       |                           |                |                   |
| <b>Packing</b>                                                                                                                                                                                                                                                                                                                               |          |                                             |          |                                                                                                                       |                           |                |                   |
| Standard                                                                                                                                                                                                                                                                                                                                     |          | 1 pce in box                                |          |                                                                                                                       |                           |                |                   |
| Weight                                                                                                                                                                                                                                                                                                                                       |          | 6.5 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. |          |                                             |          |                                                                                                                       |                           |                |                   |
| Draft                                                                                                                                                                                                                                                                                                                                        | Date     | Approved                                    | Date     | Rev.                                                                                                                  | Engineering change number | Name           | Date              |
| Marion Striegler                                                                                                                                                                                                                                                                                                                             | 11/05/12 | Lars Ramtke                                 | 13/08/14 | a00                                                                                                                   | 13-s383                   | Marcel Panicke | 13/08/14          |
| Rosenberger Hochfrequenztechnik GmbH & Co. KG<br>P.O.Box 1260 D-84526 Tittmoning Germany<br><a href="http://www.rosenberger.de">www.rosenberger.de</a>                                                                                                                                                                                       |          |                                             |          | Tel. : +49 8684 18-0<br>Fax : +49 8684 18-499<br>Email : <a href="mailto:info@rosenberger.de">info@rosenberger.de</a> |                           |                | Page<br><br>2 / 2 |