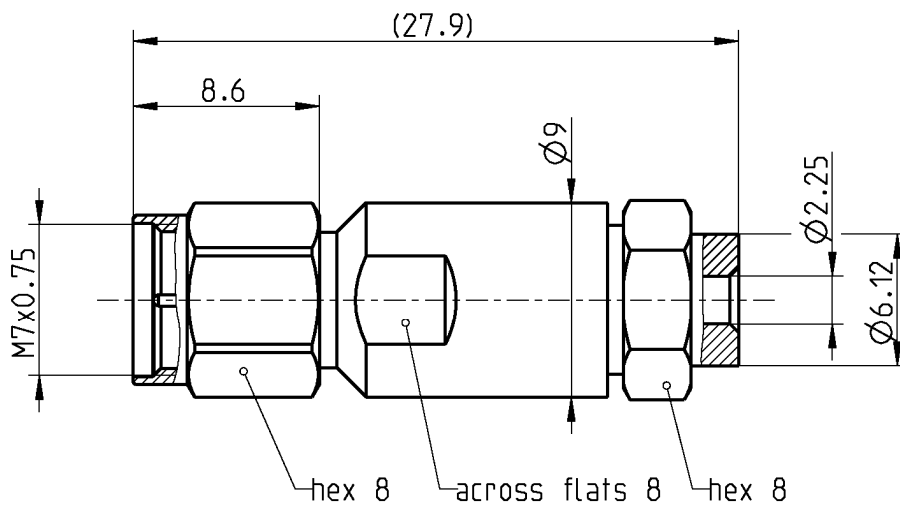




All dimensions are in mm; tolerances according to ISO 2768 m-H

## Interface

According to  
Mechanically compatible with

IEC 61169-40  
RPC-1.85

## Documents

Assembly instruction

02 A3

## Material and plating

### Connector parts

Center contact  
Outer contact  
Coupling Nut  
Dielectric  
Solder sleeve

### Material

CuBe  
Stainless steel  
Stainless steel  
PEEK  
Brass

### Plating

Gold, min. 1.27  $\mu\text{m}$ , over chemical nickel  
Passivated  
Passivated  
Gold, 0.1  $\mu\text{m}$  min.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |               |          |                                                     |                           |       |               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------|----------|-----------------------------------------------------|---------------------------|-------|---------------|
| Technical Data Sheet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |               |          | Rosenberger                                         |                           |       |               |
| RPC-2.40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          | Straight plug |          | 09S121-271S3                                        |                           |       |               |
| <div>Electrical data</div> <div>Impedance50 Ω<br/>FrequencyDC to 50 GHz<br/>Return loss≥ 23 dB, DC to 50 GHz<br/>Insertion loss≤ 0.05 x √f(GHz) dB<br/>Insulation resistance≥ 5 GΩ<br/>Test voltage (at sea level)500 V rms<br/>Working voltage (at sea level)150 V rms<br/>RF-leakage≥ 100 dB up to 1 GHz</div> <div>- Limitations are possible due to the used cable type -</div> <div>Mechanical data</div> <div>Mating cycles≥ 500<br/>Center contact captivation≥ 20 N<br/>Coupling test torque1.65 Nm<br/>Recommended torque0.80 Nm to 1.10 Nm</div> <div>Environmental data</div> <div>Temperature range-40°C to +85°C<br/>Thermal shockIEC 61169-1, Subclause 9.4.4<br/>CorrosionIEC 61169-1, Subclause 9.4.6<br/>VibrationIEC 61169-1, Subclause 9.3.3<br/>ShockIEC 61169-1, Subclause 9.3.14<br/>Moisture resistanceIEC 61169-1, Subclause 9.4.3<br/>RoHScompliant</div> <div>Tooling</div> <div>N/A</div> <div>Suitable cables</div> <div>UT 85, RG 405 /U, RTK-FS 085</div> <div>Weight</div> <div>9.2 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 26.08.04 | F. Reiner     | 20.06.18 | c01                                                 | 18-1026                   | M.Ruf | 20.06.18      |
| 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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