



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

Interface

| | |
|-----------------------|--------------|
| RPC-1.00 according to | IEC 61169-31 |
| Waveguide | WR-12 |
| Flange | UG-387/U |

Material and plating

Connector parts

Center conductor
Outer conductor RPC-1.00
Coupling nut
Waveguide

Material

CuBe
Stainless steel
Stainless steel
Brass

Plating

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

Electrical data

| | |
|----------------|----------------------------|
| Impedance | 50 Ω |
| Frequency | 60 GHz to 90 GHz |
| Return loss | ≥ 16 dB, 60 GHz to 90 GHz |
| Insertion loss | ≤ 0.7 dB, 60 GHz to 90 GHz |

Mechanical data

| | |
|-----------------------------|--------------------|
| Mating cycles RPC-1.00 | ≥ 500 |
| Maximum torque RPC-1.00 | 0.70 Nm |
| Recommended torque RPC-1.00 | 0.35 Nm |
| Recommended torque WR12 | 1.10 Nm |
| Gauge RPC-1.00 | 0.00 mm to 0.05 mm |

Environmental data

| | |
|-------------------|-------------------|
| Temperature range | - 40 °C to +85 °C |
| RoHS | compliant |

Packing

| | |
|----------|--------------|
| Standard | 1 pce in box |
| Weight | 19 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.

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



| Draft | Date | Approved | Date | Rev. | Engineering change number | Name | Date |
|----------------|----------|-------------|----------|------|---------------------------|------------------|----------|
| Marcel Panicke | 27.10.17 | Lars Ramtke | 23.06.21 | b00 | 21-1076 | Marion Striegler | 23.06.21 |