



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

Interface

RPC-3.50 according to
RPC-3.50 mechanically compatible with
RPC-N according to

IEC 60169-23
RPC-2.92 and SMA
IEC 61169-16; MIL-STD 348A/402

Documents

N/A

Material and plating

Connector parts

- Center contact
- Outer contact
- Coupling nut
- Dielectric
- Gasket

Material

- CuBe
- Stainless steel
- Stainless steel
- PPE
- Silicone

Plating

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

Adaptor
RPC-3.50 plug – RPC-N 50 Ω plug

03S105-S00S3

Electrical data

| | |
|--------------------------------|-----------------------|
| Impedance | 50 Ω |
| Frequency | DC to 18 GHz |
| Return loss | ≥ 26 dB, DC to 18 GHz |
| Insertion loss | ≤ 0.05 x √f(GHz) dB |
| Insulation resistance | ≥ 5 GΩ |
| Test voltage (at sea level) | 1000 V rms |
| Working voltage (at sea level) | 335 V rms |
| RF-leakage | ≥ 90 dB up to 1 GHz |

Mechanical data

| | |
|-------------------------------|--------------------|
| Mating cycles | ≥ 500 |
| Center contact captivation | ≥ 28 N |
| Coupling test torque RPC-3.50 | 1.70 Nm |
| Recommended torque RPC-3.50 | 0.80 Nm to 1.10 Nm |
| Coupling test torque RPC-N | 1.70 Nm |
| Recommended torque RPC-N | 0.70 Nm to 1.10 Nm |

Environmental data

| | |
|---------------------|---------------------------------|
| Temperature range | -40°C to +85°C |
| Thermal shock | MIL-STD-202, Meth. 107, Cond. B |
| Corrosion | MIL-STD-202, Meth. 101, Cond. B |
| Vibration | MIL-STD-202, Meth. 204, Cond. D |
| Shock | MIL-STD-202, Meth. 213, Cond. I |
| Moisture resistance | MIL-STD-202, Meth. 106 |
| RoHS | compliant |

Tooling

N/A

Suitable cables

N/A

Weight

43.6 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 |
|------------------|----------|-----------|----------|------|---------------------------|-------|----------|
| Herbert Babinger | 17.05.04 | F. Reiner | 20.06.18 | b01 | 18-1026 | M.Ruf | 20.06.18 |

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