



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

Interface

According to IEC 61169-40
Mechanically compatible with 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 μm , over chemical nickel
Passivated
Passivated
Gold, 0.1 μm min.

RPC-2.40

Straight plug

09S121-271S3

Electrical data

| | |
|--------------------------------|-----------------------|
| Impedance | 50 Ω |
| Frequency | DC to 50 GHz |
| Return loss | ≥ 23 dB, DC to 50 GHz |
| Insertion loss | ≤ 0.05 x √f(GHz) dB |
| Insulation resistance | ≥ 5 GΩ |
| Test voltage (at sea level) | 500 V rms |
| Working voltage (at sea level) | 150 V rms |
| RF-leakage | ≥ 100 dB up to 1 GHz |

- Limitations are possible due to the used cable type -

Mechanical data

| | |
|----------------------------|--------------------|
| Mating cycles | ≥ 500 |
| Center contact captivation | ≥ 20 N |
| Coupling test torque | 1.65 Nm |
| Recommended torque | 0.80 Nm to 1.10 Nm |

Environmental data

| | |
|---------------------|-------------------------------|
| Temperature range | -40°C to +85°C |
| Thermal shock | IEC 61169-1, Subclause 9.4.4 |
| Corrosion | IEC 61169-1, Subclause 9.4.6 |
| Vibration | IEC 61169-1, Subclause 9.3.3 |
| Shock | IEC 61169-1, Subclause 9.3.14 |
| Moisture resistance | IEC 61169-1, Subclause 9.4.3 |
| RoHS | compliant |

Tooling

N/A

Suitable cables

UT 85, RG 405 /U, RTK-FS 085

Weight

9.2 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 | 26.08.04 | F. Reiner | 20.06.18 | c01 | 18-1026 | M.Ruf | 20.06.18 |

Rosenberger Hochfrequenztechnik GmbH & Co. KG
 P.O.Box 1260 D-84526 Tittmoning Germany
www.rosenberger.de

Tel. : +49 8684 18-0
 Email : info@rosenberger.de

Page
 2 / 2