



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

Interface

According to IEC 60169-23
Mechanically compatible with RPC-2.92 and SMA

Documents

Assembly instruction 03 A

Material and plating

Connector parts

| | Material | Plating |
|----------------|------------------|--|
| Center contact | Beryllium copper | Gold, min. 1.27 µm, over chemical nickel |
| Outer contact | Stainless steel | Passivated |
| Dielectric | PS | |
| Solder sleeve | Brass | Gold, 0.1 µm min. |

RPC-3.50

STRAIGHT JACK

03K121-272S3

Electrical data

| | |
|---------------------------|-------------------------|
| Impedance | 50 Ω |
| Frequency | DC to 26.5 GHz |
| Return loss | ≥ 25 dB, DC to 26.5 GHz |
| Insertion loss | ≤ 0.03 x √f(GHz) dB |
| Insulation resistance | ≥ 5 GΩ |
| Center contact resistance | ≤ 3.0 mΩ |
| Outer contact resistance | ≤ 2.0 mΩ |
| Test voltage | 1000 V rms |
| Working voltage | 335 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 | ≥ 27 N |
| Coupling test torque | 1.70 Nm |
| Recommended torque | 0.80 Nm to 1.10 Nm |

Environmental data

| | |
|---------------------|--------------------------------------|
| Temperature range | -40°C to +85°C |
| Thermal shock | MIL-STD-202, Method 107, Condition B |
| Corrosion | MIL-STD-202, Method 101, Condition B |
| Vibration | MIL-STD-202, Method 204, Condition D |
| Shock | MIL-STD-202, Method 213, Condition I |
| Moisture resistance | MIL-STD-202, Method 106 |
| 2002/95/EC (RoHS) | compliant |

Tooling

N/A

Suitable cables

UT 141 / RTK-FS 141 / RTK-Flex 402

Packing

| | |
|----------|--------------|
| Standard | 1 pce in bag |
| Weight | 11.4 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 | 05/05/04 | Martin Moder | 02/08/12 | c00 | 12-0205 | Maik Knoll | 02/08/12 |
| Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de | | | | | Tel.: +49 8684 18-0 Fax: +49 8684 18-499 email: info@rosenberger.de | | Page 2 / 2 |

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