



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

Interface

RPC-N according to
RPC-TNC according to

IEC 60169-16 ; CECC 22 210 ; MIL-STD 348A/402
IEC 60169-26

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact
Dielectric 1
Dielectric 2

Material

Beryllium copper
Stainless steel
PPE
PTFE

Plating

Gold, min. 1.27 μm, over chemical nickel
Passivated

**ADAPTOR
RPC-N 50 Ω JACK – RPC-TNC JACK**

05K106-K00S3

Electrical data

| | |
|-----------------------------------|-----------------------------------|
| Impedance | 50 Ω |
| Frequency | DC to 18 GHz |
| Return loss | ≥ 20 dB, DC to 18 GHz |
| Insertion loss | ≤ 0.1 x $\sqrt{f(\text{GHz})}$ dB |
| Insulation resistance | ≥ 5 GΩ |
| Center contact resistance RPC-N | ≤ 1.0 mΩ |
| Outer contact resistance RPC-N | ≤ 1.0 mΩ |
| Center contact resistance RPC-TNC | ≤ 1.5 mΩ |
| Outer contact resistance RPC-TNC | ≤ 1.0 mΩ |
| Test voltage | 1500 V rms |
| Working voltage | 500 V rms |
| RF-leakage | ≥ 90 dB up to 1 GHz |

Mechanical data

| | |
|------------------------------|--------------------|
| Mating cycles | ≥ 500 |
| Center contact captivation | ≥ 28 N |
| Coupling test torque RPC-N | 1.70 Nm |
| Recommended torque RPC-N | 0.70 Nm to 1.10 Nm |
| Coupling test torque RPC-TNC | 1.70 Nm |
| Recommended torque RPC-TNC | 0.46 Nm to 0.69 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

N/A

Weight

40.9 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 | 27/07/04 | H. Babinger | 26.01.16 | d00 | 16-0128 | Maik Knoll | 26.01.16 |
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