



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

Interface

RPC-2.92 mechanically compatible with
RPC-N according to

RPC-3.50 and SMA
IEC 60169-16 ; CECC 22 210 ; MIL-STD 348A/304

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact
Coupling nut
Dielectric

Material

CuBe
Stainless steel
Stainless steel
PPE

Plating

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

ADAPTOR
RPC-2.92 JACK – RPC-N 50 Ω JACK

02KR105-K0AS3**Electrical data**

| | |
|------------------------------------|------------------------------------|
| Impedance | 50 Ω |
| Frequency | DC to 18 GHz |
| Return loss | ≥ 26 dB, DC to 18 GHz |
| Insertion loss | ≤ 0.04 x $\sqrt{f(\text{GHz})}$ dB |
| Insulation resistance | ≥ 5 GΩ |
| Center contact resistance RPC-2.92 | ≤ 3.0 mΩ |
| Outer contact resistance RPC-2.92 | ≤ 2.0 mΩ |
| Center contact resistance RPC-N | ≤ 1.0 mΩ |
| Outer contact resistance RPC-N | ≤ 1.0 mΩ |
| Test voltage | 750 V rms |
| Working voltage | 250 V rms |
| RF-leakage | ≥ 90 dB up to 1 GHz |

Mechanical data

| | |
|-----------------------------------|--------------------|
| Mating cycles | ≥ 500 |
| Center contact captivation | ≥ 28 N |
| Coupling test torque RPC-2.92 | 1.70 Nm |
| Recommended torque RPC-2.92 | 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 |
| Recommended torque ruggedized nut | 1.36 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

N/A

Packing

| | |
|----------|--------------|
| Standard | 1 pce in box |
| Weight | 56.1 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 |
|--------------|----------|------------------|----------|------|---------------------------|------------|----------|
| Martin Moder | 22/04/10 | Herbert Babinger | 13/08/10 | a00 | 10-s518 | Maik Knoll | 12/08/10 |

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