



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

Interface

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

IEC 61169-16; MIL-STD 348A/402
IEC 60169-15; EN 122110; MIL-STD-348A/310
RPC-2.92 and RPC-3.50

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact
Coupling nut
Dielectric 1
Dielectric 1

Material

CuBe
Stainless steel
Stainless steel
PPE
PTFE

Plating

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

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RF_35/09.14/6.2

Adaptor
RPC-N 50 Ω plug – SMA jack

05S132-K00S3

Electrical data

| | |
|--------------------------------|-----------------------------------|
| Impedance | 50 Ω |
| Frequency | DC to 18 GHz |
| Return loss | ≥ 23 dB, DC to 18 GHz |
| Insertion loss | ≤ 0.1 x $\sqrt{f(\text{GHz})}$ dB |
| Insulation resistance | ≥ 5 GΩ |
| Test voltage (at sea level) | 1000 V rms |
| Working voltage (at sea level) | 480 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 SMA | 1.70 Nm |
| Recommended torque SMA | 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

N/A

Weight

43.2 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 | 02.08.04 | F. Reiner | 20.06.18 | d01 | 18-1026 | M.Ruf | 20.06.18 |

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