



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

Interface

According to DIN EN 61169-8

Documents

Panel piercing B 2

Material and plating

Connector parts

| Connector parts | Material | Plating |
|-----------------|----------|--|
| Center contact | CuBe | AuroDur®, gold plated |
| Outer contact | Brass | Flash white bronze over silver(e.g. Optargen®) |
| Body | Brass | Flash white bronze over silver(e.g. Optargen®) |
| Dielectric | PP | |
| Solder tag | Brass | Silver, 3-6 µm |

Technical Data Sheet

Rosenberger

BNC 50 Ω Bulkhead Jack
Solder End

51K553-200N5

Electrical data

| | |
|--|--|
| Impedance | 50 Ω |
| Frequency | DC to 10 GHz |
| Insertion loss | $\leq 0.05 \times \sqrt{f \text{ [GHz]}}$ dB |
| Insulation resistance | $\geq 5 \times 10^3$ MΩ |
| Center contact resistance | ≤ 1.5 mΩ |
| Outer contact resistance | ≤ 1 mΩ |
| Test voltage | 1500 V rms |
| Working voltage | 400 V rms |
| Power handling (at 20 °C, sea level, VSWR 1.0) | ≤ 80 W @ 2 GHz |

Mechanical data

| | |
|-----------------------------------|-------------|
| Mating cycles | ≥ 500 |
| Center contact captivation: axial | ≥ 15 N |

Environmental data

| | |
|---------------------|---------------------------------|
| Temperature range | -55°C to +155°C |
| Thermal shock | MIL-STD-202, Meth. 107, Cond. B |
| Corrosion | MIL-STD-202, Meth. 101, Cond. B |
| Vibration | MIL-STD-202, Meth. 204, Cond. B |
| Shock | MIL-STD-202, Meth. 213, Cond. G |
| Moisture resistance | MIL-STD-202, Meth. 106 |
| RoHS | compliant |

Tooling

N/A

Suitable cables

N/A

Weight

Weight 7.9 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.

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



| Draft | Date | Approved | Date | Rev. | Engineering change number | Name | Date |
|------------------|----------|-------------|----------|------|---------------------------|----------------|----------|
| Chr. Entsfellner | 10.07.08 | Chr. Janßen | 08.12.20 | g00 | 20-1927 | S. Huber-Siegl | 08.12.20 |

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