



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	$\leq 1.5$ mΩ
Outer contact resistance	$\leq 1$ mΩ
Test voltage	1500 V rms
Working voltage	400 V rms
Power handling (at 20 °C, sea level, VSWR 1.0)	$\leq 80$ W @ 2 GHz

### Mechanical data

Mating cycles	$\geq 500$
Center contact captivation: axial	$\geq 15$ 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

Rosenberger Hochfrequenztechnik GmbH & Co. KG  
P.O.Box 1260 D-84526 Tittmoning Germany  
<http://www.rosenberger.com/>

Tel. : +49 8684 18-0  
Email : [info@rosenberger.com](mailto:info@rosenberger.com)

Page  
2 / 2