



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

**Interface**

According to IEC 60169-17, MIL-PRF-39012, DIN EN 122200

**Documents**

Panel piercing B 1

**Material and plating**

**Connector parts**

Center contact  
Outer contact  
Dielectric  
Gasket  
Gasket

**Material**

CuBe  
Brass  
PTFE  
Silicone  
NBR

**Plating**

AuroDur®, gold plated  
Flash white bronze over silver(e.g. Optargen®)

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# Technical Data Sheet

# Rosenberger

TNC 50 Ω

BULKHEAD JACK  
SOLDER END

56K508-200N5

## Electrical data

Impedance	50 Ω
Frequency	DC to 10 GHz
Return loss	≥ 20 dB, DC to 2.5 GHz ≥ 18 dB, 2.5 to 4 GHz
Insertion loss	≤ 0.05 x √ f [GHz] dB, DC to 4 GHz
Insulation resistance	≥ 5 x10 <sup>3</sup> MΩ
Center contact resistance	≤ 1.5 mΩ
Outer contact resistance	≤ 1 mΩ
Test voltage	1500 V rms
Working voltage	500 V rms
Power handling (at 20 °C, sea level, VSWR 1.0)	≤ 80 W @ 2 GHz

-- Interface only --

## Mechanical data

Mating cycles	≥ 500
Center contact captivation: axial	≥ 15 N
Coupling test torque	≤ 1.7 Nm
Coupling torque (recommended)	0.46 Nm to 0.69 Nm
Tightening torque hex nut (recommended)	6 Nm

## Environmental data

Temperature range	-25 °C to +110 °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 B
Shock	MIL-STD-202, Method 213, Condition G
Moisture resistance	MIL-STD-202, Method 106
Degree of protection	IEC 60529, IP68 1 bar / 2 h (assembled in housing)
RoHS	compliant

## Tooling

N/A

## Suitable cables

N/A

## Weight

Weight 11.3 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
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