



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 6

**Material and plating**

**Connector parts**

Center contact  
Outer contact  
Body  
Dielectric

**Material**

CuBe  
Brass  
Brass  
PTFE

**Plating**

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

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TNC 50 Ω

PANEL JACK  
COAXIAL END

**56K405-500N5**

**Electrical data**

|  |  |
|--|--|
| Impedance                                      | 50 Ω   |
| Frequency                                      | DC to 10 GHz   |
| Return loss                                    | ≥ 35 dB, DC to 1 GHz<br>≥ 30 dB, 1 to 2.5 GHz<br>≥ 27 dB, 2.5 to 4 GHz |
| Insertion loss                                 | ≤ 0.05 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           |
| Recommended torque                | 0.46 Nm to 0.69 Nm |

**Environmental data**

|                     |                                      |
|---------------------|--------------------------------------|
| Temperature range   | -65 °C to +165 °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              |
| RoHS                | compliant                            |

**Tooling**

N/A

**Suitable cables**

N/A

**Weight**

Weight 9.9 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.

|               |          |                   |          |      |                           |           |          |
|---------------|----------|-------------------|----------|------|---------------------------|-----------|----------|
| Draft         | Date     | Approved          | Date     | Rev. | Engineering change number | Name      | Date     |
| Inge Mühlauer | 10.08.04 | Sa. Krautenbacher | 19.03.14 | d00  | 14-0352                   | T. Krojer | 19.03.14 |

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Page  
2 / 2