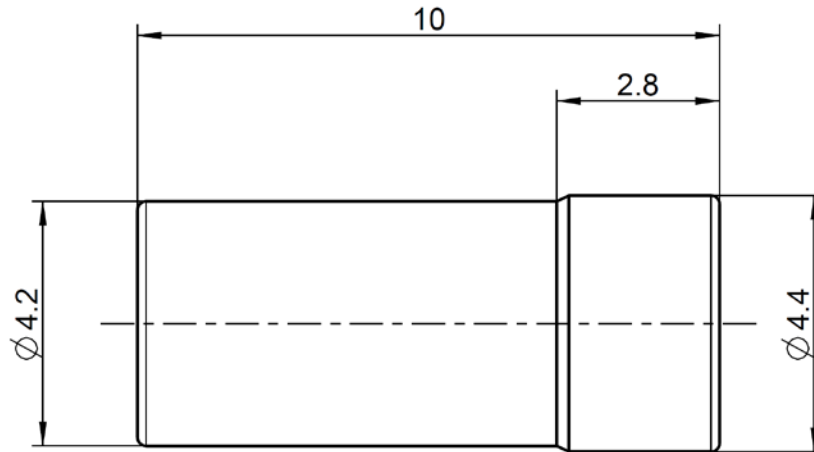


VIA

Adaptor

**B2BS101-S02L5**



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

**Interface**

According to Rosenberger B2B-VIA

**Documents**

Panel piercing N/A

**Material and plating**

**Connector parts**

Center contact  
Outer contact  
Dielectric

**Material**

Brass  
Brass  
PTFE

**Plating**

AuroDur®, gold plated  
AuroDur®, gold plated

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VIA

Adaptor

**B2BS101-S02L5**

**Electrical data**

|                                      |  |
|--------------------------------------|--|
| Impedance                            | 50 Ω   |
| Frequency                            | DC to 6 GHz  |
| Return loss*                         | 36 dB typ. @ DC to 2.5 GHz<br>35 dB typ. @ 2.5 GHz to 4 GHz<br>32 dB typ. @ 4 GHz to 6 GHz               |
| Insertion loss                       | ≤ 0.1 x √f [GHz] dB  |
| Insulation resistance                | ≥ 5 GΩ   |
| Center contact resistance            | ≤ 6 mΩ   |
| Outer contact resistance             | ≤ 5 mΩ   |
| Test voltage (at sea level)          | 500 V rms  |
| Working voltage (at sea level)       | 335 V rms  |
| Power handling (sea level, VSWR 1.0) | 260 W @ 2.2 GHz (at 20 °C) (tbd)<br>160 W @ 2.2 GHz (at 100°C) (tbd)<br>130 W @ 2.7 GHz (at 100°C) (tbd) |
| Contact Current                      | ≤ 2A DC  |
| Screening Attenuation                | ≥ 70 dB up to 6 GHz  |

- Connector only, VSWR in application depends decisive on PCB layout –  
\* depending on the axial misalignment

**Mechanical data**

|                            |   |
|----------------------------|---|
| Mating cycles              | ≥ 100   |
| Center contact captivation | ≥ 7 N   |
| Disengagement force        | Δ 5N (between Limited Detent and Smooth Bore) |
| Working range              | 2 mm (± 1 mm)                                 |
| Radial misalignment        | ± 0.6 mm / 4°                                 |
| Pitch                      | ≥ 6.5 mm                                      |

**Environmental data**

|                     |  |
|---------------------|--|
| Temperature range   | -55 °C to +125 °C                                  |
| Thermal shock       | MIL-STD-202, Method 107, Condition B               |
| Climatic category   | IEC 61169-1, Sub-clause 9.4.5 (+155 °C, 250 hours) |
| Moisture resistance | MIL-STD-202, Method 106                            |
| Vibration           | MIL-STD-202, Method 204, Condition B               |
| Shock               | MIL-STD-202, Method 213, Condition A               |
| RoHS                | compliant  |

**Tooling**

N/A

**Weight**

Weight 0,7/pc

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     |
| B. Aicher  | 30.09.15 | B. Aicher | 02.05.16 | 200  | 16-v256                   | A_Wallner  | 02.05.16 |
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|  |          |           |          |      |                           | Page<br>2 / 2  |          |