



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

**Interface**

According to Rosenberger P-SMP

**Documents**

Panel piercing B 120c

**Material and plating**

**Connector parts**

|                |       |
|----------------|-------|
| Center contact | Brass |
| Outer contact  | Brass |
| Outer contact  | Brass |
| Dielectric     | PEEK  |

**Plating**

AuroDur®, gold plated  
AuroDur®, gold plated  
Nickel, 2.5-5  $\mu$ m

**Electrical data**

|   |   |
|---|---|
| Impedance                               | 50 Ω  |
| Frequency                               | DC to 10 GHz                                |
| Return loss                             | ≥ 30 dB, DC to 4 GHz<br>≥ 25 dB, 4 to 6 GHz |
| Insertion loss                          | ≤ 0.03 x √f(GHz) dB                         |
| Insulation resistance                   | ≥ 5 GΩ                                      |
| Center contact resistance               | ≤ 3.0 mΩ                                    |
| Outer contact resistance                | ≤ 2.0 mΩ                                    |
| Test voltage (at sea level)             | 1000 V rms                                  |
| Working voltage (at sea level)          | 480 V rms                                   |
| Power handling (at 20 °C, sea level)    | ≤ 200 W @ 2.2 GHz                           |
| Intermodulation (3 <sup>rd</sup> order) | ≥ 160 dBc (2 x 43 dBm)                      |

- Connector only, VSWR in application depends decisive on PCB layout

**Mechanical data**

|                            |            |
|----------------------------|------------|
| Mating cycles              | ≥ 1000     |
| Center contact captivation | ≥ 7 N      |
| Engagement force           | 10 N max.  |
| Disengagement force        | 2.2 N min. |

**Environmental data**

|                             |   |
|-----------------------------|---|
| Temperature range           | -65°C to +165°C                                 |
| Rapid change of temperature | IEC 60169-1, Sub-clause 16.4 (-65°C to +165°C)  |
| Vibration                   | IEC 60068-2-64 random                           |
| Shock                       | IEC 60068-2-27 (half-sine)                      |
| High temperature endurance  | IEC 60169-1, Sub-clause 18 (+165°C, 1000 hours) |
| Max. soldering temperature  | IEC 61760-1, +260°C for 10 sec.                 |
| RoHS                        | compliant                                       |

**Tooling**

N/A

**Suitable cables**

N/A

**Weight**

|        |            |
|--------|------------|
| Weight | 1.85 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     |
| Huppenberger | 13.05.14 | Chr. Janßen | 21.10.20 | b00  | 20-1927                   | S. Huber-Siegl | 21.10.20 |

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