

**Product Data Sheet / Produkt Datenblatt**

**Part Number**

**5497.MCA.1X20.007**

**Teilenummer**

**Description**

**MCA-PCB-Anbauwinkelstecker-4-P  
 MCA-PCB-Mount Angle Plug-4-pol**

**Beschreibung**



view coding Z

**Electrical characteristics / Elektrische Eigenschaften**

|                                   |              | Value/Wert | Unit/<br>Einheit |                                     |
|-----------------------------------|--------------|------------|------------------|-------------------------------------|
| Impedance */** (@90 ps Rise Time) |              | 50 ±3      | [Ω]              | Impedanz (MIL-C-39012B)             |
| Operating frequency up to         |              | 9          | [GHz]            | Betriebsfrequenz bis zu             |
| Return loss */**                  |              |            |                  | Rückflussdämpfung*                  |
| (acc. to USCAR-49)                | DC - 2 GHz   | ≥ 25       | [dB]             |                                     |
|                                   | 2 - 6 GHz    | ≥ 15       | [dB]             |                                     |
|                                   | 6 - 9 GHz    | ≥ 12       | [dB]             |                                     |
| Insertion Loss */**               | DC-2 GHz     | ≤ 0,2 dB   | [dB]             | Einfügedämpfung                     |
| (acc. to USCAR-49)                | 2 - 6 GHz    | ≤ 0,4 dB   |                  |                                     |
|                                   | 6 - 9 GHz    | ≤ 0,9 dB   | [dB]             |                                     |
| Cross Talk */**                   | DC - 4 GHz   | ≥ 60       | [dB]             | Nebensprechen*                      |
|                                   | 4 - 9 GHz    | ≥ 50       | [dB]             |                                     |
| Screening Attenuation **          | DC - 2 GHz   | ≥ 60       | [dB]             | Schirmdämpfung                      |
| (acc. to USCAR-49, IEC 62153-4-7) | 2 - 5 GHz    | ≥ 50       | [dB]             |                                     |
|                                   | 5 - 9 GHz    | ≥ 40       | [dB]             |                                     |
| Insulation resistance             |              | ≥ 1        | [GΩ]             | Isolationswiderstand                |
| Contact resistance                |              |            |                  | Kontakt-Widerstand                  |
| Centre contact                    | each contact | ≤ 15       | [mΩ]             | Innenkontakt                        |
| Outer contact                     | each contact | ≤ 7,5      | [mΩ]             | Außenkontakt                        |
| Contact current max. (DC)         | each contact | 3          | [A] DC           | Kontakt-Strombelastbarkeit max (DC) |
| Operating voltage                 |              | ≤ 60       | [V] DC           | Betriebsspannung                    |
| Proof voltage                     |              | 500        | [Vms]            | Prüfspannung                        |

Formblatt Nr.: Form-TK-013ab Rev. 13 - Release 2020/04

**Product Data Sheet / Produkt Datenblatt**

|                    |  |                     |
|--------------------|--|---------------------|
| <b>Part Number</b> | <b>5497.MCA.1X20.007</b>   | <b>Teilenummer</b>  |
| <b>Description</b> | <b>MCA-PCB-Anbauwinkelstecker-4-P<br/>MCA-PCB-Mount Angle Plug-4-pol</b> | <b>Beschreibung</b> |

**Mechanical characteristics / Mechanische Eigenschaften**

|                               | Value/ Wert | Unit/<br>Einheit |                                |
|-------------------------------|-------------|------------------|--------------------------------|
| Engagement force              | ≤ 75        | [N]              | Steckkraft                     |
| Separating force              | ≤ 60        | [N]              | Ziehkraft                      |
| Mating cycles                 | ≥ 25        | [-]              | Steckzyklen                    |
| Retention force locked system | ≥ 120       | [N]              | Haltekraft Steckerverriegelung |

**Material & plating / Material & Oberfläche**

|                   | Material/Material | Plating/Oberflächen |                      |
|-------------------|-------------------|---------------------|----------------------|
| Outer contact     | Brass             | Sn                  | Außenkontakt         |
| Centre contact    | Brass / Bronze    | Ag                  | Innenkontakt         |
| Plastic housing   | PPA / PA-GF       |                     | Kunststoffgehäuse    |
| Other metal parts | GD-Zn             | Sn                  | sonstige Metallteile |
| Insulator         | LCP               | -                   | Isolator             |

**Environmental influences\*\***

**Umwelteinflüsse\*\***

|                                   |                                   |                            |
|-----------------------------------|-----------------------------------|----------------------------|
| Temperature range                 | -40°C < T < +105°C                | Temperaturbereich          |
| Mechanical shock                  | IEC 60068-2-27/ USCAR-49          | Mechanischer Schock        |
| Vibration                         | IEC 60068-2-64 Severity1/USCAR-49 | Vibration                  |
| Thermal change                    | IEC 60068-2-14 / USCAR-49         | Temperaturwechsel          |
| Damp heat, cyclic                 | USCAR-49                          | Feuchte Wärme, zyklisch    |
| Dry heat                          | IEC 60068-2-2 / USCAR-49          | Trockene Wärme             |
| RoHS                              | compliant                         | RoHS                       |
| Sealing classification ISO 20 653 | NA                                | Dichtungsklasse ISO 20 653 |
| Solder profile                    | according to JEDEC 020            | Lötprofil                  |

**Packaging**

**Verpackung**

|           |               |            |
|-----------|---------------|------------|
| weight    | 7,9 g         | Gewicht    |
| packaging | Tape and Reel | Verpackung |

**Notes**

**Bemerkungen**

\* on PCB with Cable-Connector

\*\* validated and approved by external accredited laboratory in accordance with USCAR-49, detailed data on request.

- Design according USCAR 888-U-004-2-Z03
- compliant to SAE/USCAR49 / LAH.4N0.035.K / LV214

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.