

## Printed-circuit board connector - MC 1,5/ 2-ST1-5,08 - 1900772

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PCB connector, nominal current: 8 A, rated voltage (III/2): 320 V, number of positions: 2, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin



The figure shows a 10-position version of the product

### Your advantages

- ✓ Well-known connection principle allows worldwide use
- ✓ Low temperature rise, thanks to maximum contact force
- ✓ Allows connection of two conductors



### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 50 pc                                                                                                   |
| Minimum order quantity               | 50 pc                                                                                                   |
| GTIN                                 | <br>4 017918 429171 |
| GTIN                                 | 4017918429171                                                                                           |
| Weight per Piece (excluding packing) | 1.420 g                                                                                                 |
| Custom tariff number                 | 85366990                                                                                                |
| Country of origin                    | Germany                                                                                                 |

### Technical data

#### Item properties

|                           |                                      |
|---------------------------|--------------------------------------|
| Brief article description | Printed-circuit board connector      |
| Plug-in system            | MINI COMBICON                        |
| Type of contact           | Female connector                     |
| Range of articles         | MC 1,5/...-ST1                       |
| Pitch                     | 5.08 mm                              |
| Number of positions       | 2                                    |
| Connection method         | Screw connection with tension sleeve |
| Drive form screw head     | Slotted (L)                          |

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## Technical data

### Item properties

|                  |         |
|------------------|---------|
| Screw thread     | M2      |
| Locking          | without |
| Number of levels | 1       |

### Electrical parameters

|                                  |       |
|----------------------------------|-------|
| Rated current                    | 8 A   |
| Rated insulation voltage (III/2) | 320 V |
| Rated surge voltage (III/2)      | 4 kV  |

### Connection capacity

|                                                                                        |                                               |
|----------------------------------------------------------------------------------------|-----------------------------------------------|
| Conductor cross section solid                                                          | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>  |
| Conductor cross section flexible                                                       | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>  |
| Conductor cross section AWG / kcmil                                                    | 28 ... 16                                     |
| Conductor cross section flexible, with ferrule without plastic sleeve                  | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>  |
| Conductor cross section, flexible, with ferrule, with plastic sleeve                   | 0.25 mm <sup>2</sup> ... 0.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, solid                                            | 0.08 mm <sup>2</sup> ... 0.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, flexible                                         | 0.08 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve        | 0.25 mm <sup>2</sup> ... 0.34 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, with TWIN ferrules with plastic sleeve | 0.5 mm <sup>2</sup> ... 0.5 mm <sup>2</sup>   |
| Cylindrical gauge a x b / diameter                                                     | 2.4 mm x 1.5 mm / 1.6 mm                      |
| Stripping length                                                                       | 7 mm                                          |
| Torque                                                                                 | 0.22 Nm ... 0.25 Nm                           |

### Material data - contact

|                                          |                                                                                   |
|------------------------------------------|-----------------------------------------------------------------------------------|
| Note                                     | WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/ JEDEC JESD 201 |
| Contact material                         | Cu alloy                                                                          |
| Surface characteristics                  | hot-dip tin-plated                                                                |
| Metal surface terminal point (top layer) | Tin (4 - 8 µm Sn)                                                                 |
| Metal surface contact area (top layer)   | Tin (4 - 8 µm Sn)                                                                 |

### Material data - housing

|                                                                   |        |
|-------------------------------------------------------------------|--------|
| Insulating material                                               | PA     |
| Insulating material group                                         | I      |
| CTI according to IEC 60112                                        | 600    |
| Flammability rating according to UL 94                            | V0     |
| Glow wire flammability index GWFI according to EN 60695-2-12      | 850    |
| Glow wire ignition temperature GWIT according to EN 60695-2-13    | 775    |
| Temperature for the ball pressure test according to EN 60695-10-2 | 125 °C |

### Dimensions for the product

|              |         |
|--------------|---------|
| Length [ l ] | 15.5 mm |
|--------------|---------|

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### Dimensions for the product

|                             |          |
|-----------------------------|----------|
| Width [ w ]                 | 10.12 mm |
| Height [ h ]                | 11.1 mm  |
| Pitch                       | 5.08 mm  |
| Height (without solder pin) | 11.1 mm  |
| Dimension a                 | 5.08 mm  |

### Packaging information

|                            |                     |
|----------------------------|---------------------|
| Type of packaging          | packed in cardboard |
| Pieces per package         | 50                  |
| Denomination packing units | Pcs.                |

### Ambient conditions

|                                         |                  |
|-----------------------------------------|------------------|
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |
| Ambient temperature (assembly)          | -5 °C ... 100 °C |
| Ambient temperature (operation)         | -40 °C           |

### Air clearances and creepage distances

|                                  |                     |
|----------------------------------|---------------------|
| Specification                    | IEC 60664-1:2007-04 |
| Insulating material group        | I                   |
| Voltage                          | 250 V               |
| Rated insulation voltage (III/3) | 250 V               |
| Rated insulation voltage (III/2) | 320 V               |
| Rated insulation voltage (II/2)  | 630 V               |
| Rated surge voltage (III/3)      | 4 kV                |
| Rated surge voltage (III/2)      | 4 kV                |
| Rated surge voltage (II/2)       | 4 kV                |

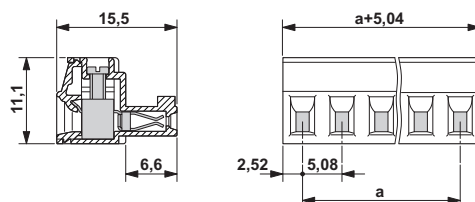
### Environmental Product Compliance

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| REACH SVHC | Lead 7439-92-1                                                                                      |
| China RoHS | Environmentally Friendly Use Period = 50                                                            |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Drawings

## Printed-circuit board connector - MC 1,5/ 2-ST1-5,08 - 1900772

Dimensional drawing



### Classifications

eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 272607xx |
| eCl@ss 4.1 | 27260701 |
| eCl@ss 5.0 | 27260701 |
| eCl@ss 5.1 | 27260700 |
| eCl@ss 6.0 | 27260700 |
| eCl@ss 7.0 | 27440309 |
| eCl@ss 8.0 | 27440309 |
| eCl@ss 9.0 | 27440309 |

ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC001121 |
| ETIM 4.0 | EC002638 |
| ETIM 5.0 | EC002638 |
| ETIM 6.0 | EC002638 |

UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211810 |
| UNSPSC 7.0901 | 39121409 |
| UNSPSC 11     | 39121409 |
| UNSPSC 12.01  | 39121409 |
| UNSPSC 13.2   | 39121409 |

### Approvals

Approvals

Approvals

IECEE CB Scheme / VDE Gutachten mit Fertigungsüberwachung / EAC / cULus Recognized

Ex Approvals

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### Approvals

#### Approval details

|                    |                                                                                   |                                                           |                |
|--------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------|----------------|
| IECEE CB Scheme    |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-60987-B1B2 |
| Nominal voltage UN | 250 V                                                                             |                                                           |                |
| Nominal current IN | 8 A                                                                               |                                                           |                |
| mm²/AWG/kcmil      | 0.2-1.5                                                                           |                                                           |                |

|                                            |                                                                                   |                                                                                                                                                                                                                |          |
|--------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| VDE Gutachten mit<br>Fertigungsüberwachung |  | <a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/<br/>VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a> | 40011723 |
| Nominal voltage UN                         | 250 V                                                                             |                                                                                                                                                                                                                |          |
| Nominal current IN                         | 8 A                                                                               |                                                                                                                                                                                                                |          |
| mm²/AWG/kcmil                              | 0.2-1.5                                                                           |                                                                                                                                                                                                                |          |

|     |                                                                                     |         |
|-----|-------------------------------------------------------------------------------------|---------|
| EAC |  | B.01742 |
|-----|-------------------------------------------------------------------------------------|---------|

|                    |                                                                                     |                                                                                                                                                       |                 |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| cULus Recognized   |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | E60425-20110128 |
|                    | D                                                                                   | B                                                                                                                                                     |                 |
| Nominal voltage UN | 300 V                                                                               | 300 V                                                                                                                                                 |                 |
| Nominal current IN | 8 A                                                                                 | 8 A                                                                                                                                                   |                 |
| mm²/AWG/kcmil      | 30-14                                                                               | 30-14                                                                                                                                                 |                 |