

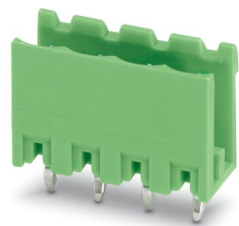
# MSTBV 2,5/ 4-GS-5,08 - PCB header



1998551

<https://www.phoenixcontact.com/us/products/1998551>

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PCB headers, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, contact surface: Tin, contact connection type: Pin, number of rows: 1, number of positions: 4, product range: MSTBV 2,5/..-GS, pitch: 5.08 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.9 mm, number of solder pins per potential: 1, plug-in system: COMBICON MSTB 2,5, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: packed in cardboard

## Your advantages

- Maximum flexibility when it comes to device design – one header for connectors with different connection technologies
- Well-known mounting principle allows worldwide use
- Vertical connection enables multi-row arrangement on the PCB

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1998551                        |
| Packing unit                         | 50 pc                          |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Product key                          | AAC1DN                         |
| GTIN                                 | 4017918965648                  |
| Weight per piece (including packing) | 1.49 g                         |
| Weight per piece (excluding packing) | 1.49 g                         |
| Country of origin                    | DE                             |

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## Technical data

### Product properties

|                           |                       |
|---------------------------|-----------------------|
| Product type              | PCB headers           |
| Product family            | MSTBV 2,5/..-GS       |
| Product line              | COMBICON Connectors M |
| Type                      | Standard              |
| Number of positions       | 4                     |
| Pitch                     | 5.08 mm               |
| Number of rows            | 1                     |
| Mounting flange           | without               |
| Pin layout                | Linear pinning        |
| Solder pins per potential | 1                     |

### Electrical properties

|                       |       |
|-----------------------|-------|
| Nominal current $I_N$ | 12 A  |
| Degree of pollution   | 3     |
| Rated voltage (III/3) | 250 V |

### Mounting

|               |                |
|---------------|----------------|
| Mounting type | Wave soldering |
| Pin layout    | Linear pinning |

### Material specifications

#### 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                     | Tin-plated                                                                       |
| Metal surface contact area (top layer)      | Tin (3 - 5 $\mu\text{m}$ Sn)                                                     |
| Metal surface contact area (middle layer)   | Nickel (1.3 - 3 $\mu\text{m}$ Ni)                                                |
| Metal surface soldering area (top layer)    | Tin (3 - 5 $\mu\text{m}$ Sn)                                                     |
| Metal surface soldering area (middle layer) | Nickel (1.3 - 3 $\mu\text{m}$ Ni)                                                |

#### Material data - housing

|                                                                |     |
|----------------------------------------------------------------|-----|
| Color ( )                                                      | ( ) |
| 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 |

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|                                                                   |        |
|-------------------------------------------------------------------|--------|
| Temperature for the ball pressure test according to EN 60695-10-2 | 125 °C |
|-------------------------------------------------------------------|--------|

## Notes

|                    |                                                                                                                                                                                          |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Notes on operation | In accordance with IEC 61984, COMBICON connectors have no switching power (COC). During designated use, they must not be plugged in or disconnected when carrying voltage or under load. |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Dimensions

|                       |         |
|-----------------------|---------|
| Dimensional drawing   |         |
| Pitch                 | 5.08 mm |
| Length [l]            | 8.6 mm  |
| Installed height      | 12 mm   |
| Solder pin length [P] | 3.9 mm  |

|               |        |
|---------------|--------|
| PCB design    |        |
| Hole diameter | 1.4 mm |

## Electrical tests

|                                       |       |
|---------------------------------------|-------|
| Air clearances and creepage distances |       |
| Insulating material group             | I     |
| Rated insulation voltage (III/3)      | 250 V |

## Packaging specifications

|                   |                     |
|-------------------|---------------------|
| Type of packaging | packed in cardboard |
|-------------------|---------------------|

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## Environmental product compliance

|                                         |                                          |
|-----------------------------------------|------------------------------------------|
| EU RoHS                                 |                                          |
| Fulfills EU RoHS substance requirements | Yes, No exemptions                       |
| China RoHS                              |                                          |
| Environment friendly use period (EFUP)  | EFUP-E                                   |
|                                         | No hazardous substances above the limits |
| EU REACH SVHC                           |                                          |
| REACH candidate substance (CAS No.)     | No substance above 0.1 wt%               |

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## Accessories

### CR-MSTB - Coding section

1734401

<https://www.phoenixcontact.com/us/products/1734401>

Coding section, inserted into the recess in the header or the inverted plug, red insulating material



### SK 5,08/3,8:FORTL.ZAHLEN - Marker card

0804293

<https://www.phoenixcontact.com/us/products/0804293>

Marker card, white, labeled, horizontal: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... (99)100, mounting type: adhesive, for terminal block width: 5.08 mm, lettering field size: 5.08 x 3.8 mm



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## MSTB-BL - Accessories

1755477

<https://www.phoenixcontact.com/us/products/1755477>



Keying cap, for forming sections, plugs onto header pin, green insulating material

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## SK 5,08/3,8:UNBEDRUCKT - Marker card

0805412

<https://www.phoenixcontact.com/us/products/0805412>



Marker card, Sheet, white, unlabeled, can be labeled with: Marker pen: without print, mounting type: adhesive, for terminal block width: 5.08 mm, lettering field size: 5.08 x 3.8 mm, Number of individual labels: 120

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