

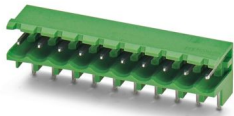
# MSTBW 2,5/ 3-G CRWH 2CR 1,2 - PCB header



5606782

<https://www.phoenixcontact.com/us/products/5606782>

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PCB headers, nominal cross section: 2.5 mm<sup>2</sup>, color: cream, nominal current: 12 A, contact surface: Sn, contact connection type: Pin, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: MSTBW 2,5/-G, pitch: 5 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.5 mm, number of solder pins per potential: 1, plug-in system: COMBICON MSTB 2,5, Pin connector pattern alignment: Standard, locking: without, mounting method: 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
- Stand-offs enable the PCB to be cleaned or sealed

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 5606782                        |
| Packing unit                         | 50 pc                          |
| Minimum order quantity               | 50 pc                          |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | AA08                           |
| Product key                          | AACSGL                         |
| GTIN                                 | 4046356287708                  |
| Weight per piece (including packing) | 1.494 g                        |
| Weight per piece (excluding packing) | 1.378 g                        |
| Customs tariff number                | 85366930                       |
| Country of origin                    | IN                             |

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## Technical data

### Product properties

|                           |                       |
|---------------------------|-----------------------|
| Product type              | PCB headers           |
| Product family            | MSTBW 2,5/..-G        |
| Product line              | COMBICON Connectors M |
| Number of positions       | 3                     |
| Pitch                     | 5 mm                  |
| Number of connections     | 3                     |
| Number of rows            | 1                     |
| Number of potentials      | 3                     |
| Mounting type             | without               |
| Pin layout                | Linear pinning        |
| Solder pins per potential | 1                     |

### Electrical properties

#### Properties

|                       |      |
|-----------------------|------|
| Nominal current $I_N$ | 12 A |
|-----------------------|------|

### 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 (5 - 7 $\mu\text{m}$ Sn)                                                     |
| Metal surface contact area (middle layer)   | Nickel (2 - 3 $\mu\text{m}$ Ni)                                                  |
| Metal surface soldering area (top layer)    | Tin (5 - 7 $\mu\text{m}$ Sn)                                                     |
| Metal surface soldering area (middle layer) | Nickel (2 - 3 $\mu\text{m}$ Ni)                                                  |

#### Material data - housing

|                                                                |              |
|----------------------------------------------------------------|--------------|
| Color (Housing)                                                | cream (9001) |
| 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 |
|--------|

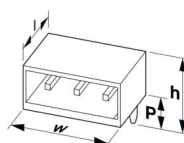
## Notes

|                    |
|--------------------|
| 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 mm |
|------|

|           |
|-----------|
| Width [w] |
|-----------|

|       |
|-------|
| 15 mm |
|-------|

|            |
|------------|
| Height [h] |
|------------|

|         |
|---------|
| 16.5 mm |
|---------|

|            |
|------------|
| Length [l] |
|------------|

|       |
|-------|
| 12 mm |
|-------|

|                  |
|------------------|
| Installed height |
|------------------|

|       |
|-------|
| 13 mm |
|-------|

|                       |
|-----------------------|
| Solder pin length [P] |
|-----------------------|

|        |
|--------|
| 3.5 mm |
|--------|

|                |
|----------------|
| Pin dimensions |
|----------------|

|       |
|-------|
| 11 mm |
|-------|

## PCB design

|               |
|---------------|
| Hole diameter |
|---------------|

|        |
|--------|
| 1.4 mm |
|--------|

## Environmental and real-life conditions

### Ambient conditions

|                                 |
|---------------------------------|
| Ambient temperature (operation) |
|---------------------------------|

|                                                     |
|-----------------------------------------------------|
| -40 °C ... 100 °C (dependent on the derating curve) |
|-----------------------------------------------------|

|                                         |
|-----------------------------------------|
| Ambient temperature (storage/transport) |
|-----------------------------------------|

|                  |
|------------------|
| -40 °C ... 70 °C |
|------------------|

|                                       |
|---------------------------------------|
| Relative humidity (storage/transport) |
|---------------------------------------|

|               |
|---------------|
| 30 % ... 70 % |
|---------------|

|                                |
|--------------------------------|
| Ambient temperature (assembly) |
|--------------------------------|

|                  |
|------------------|
| -5 °C ... 100 °C |
|------------------|

## Packaging specifications

|                   |
|-------------------|
| Type of packaging |
|-------------------|

|                     |
|---------------------|
| packed in cardboard |
|---------------------|

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/5606782>

|  <b>CSA</b><br>Approval ID: 13631-2585951 |                       |                       |                   |                             |
|----------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                            | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| B                                                                                                                          |                       |                       |                   |                             |
|                                                                                                                            | 300 V                 | 15 A                  | -                 | -                           |
| D                                                                                                                          |                       |                       |                   |                             |
|                                                                                                                            | 300 V                 | 10 A                  | -                 | -                           |

|  <b>cULus Recognized</b><br>Approval ID: E60425-19931011 |                       |                       |                   |                             |
|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                           | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| B                                                                                                                                         |                       |                       |                   |                             |
|                                                                                                                                           | 300 V                 | 15 A                  | -                 | -                           |
| D                                                                                                                                         |                       |                       |                   |                             |
|                                                                                                                                           | 300 V                 | 10 A                  | -                 | -                           |

|  <b>VDE approval of drawings</b><br>Approval ID: 40050648 |                       |                       |                   |                             |
|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                              | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                                        |                       |                       |                   |                             |
|                                                                                                                                              | 250 V                 | 12 A                  | -                 | -                           |

# MSTBW 2,5/ 3-G CRWH 2CR 1,2 - PCB header



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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27460201 |
| ECLASS-15.0 | 27460201 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002637 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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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% |
|-------------------------------------|----------------------------|

### EF3.0 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 0.037 kg CO2e |
|---------|---------------|

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