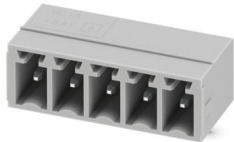


# MC 1,5/ 5-G-3,81 GY - PCB header

1880708

<https://www.phoenixcontact.com/us/products/1880708>

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PCB headers, nominal cross section: 1.5 mm<sup>2</sup>, color: gray, nominal current: 8 A, contact surface: Sn, contact connection type: Pin, number of potentials: 5, number of rows: 1, number of positions: 5, number of connections: 5, product range: MC 1,5/..-G, pitch: 3.81 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.4 mm, number of solder pins per potential: 1, plug-in system: COMBICON MC 1,5, Pin connector pattern alignment: Standard, locking: without, mounting method: without, type of packaging: packed in cardboard

## Your advantages

- Well-known mounting principle allows worldwide use
- Maximum flexibility when it comes to device design – one header for connectors with different connection technologies

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1880708                        |
| Packing unit                         | 250 pc                         |
| Minimum order quantity               | 50 pc                          |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | AA02                           |
| Product key                          | AABSBA                         |
| GTIN                                 | 4017918314255                  |
| Weight per piece (including packing) | 1.29 g                         |
| Weight per piece (excluding packing) | 2.17 g                         |
| Customs tariff number                | 85366930                       |
| Country of origin                    | DE                             |

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## Technical data

### Product properties

|                           |                       |
|---------------------------|-----------------------|
| Product type              | PCB headers           |
| Product family            | MC 1,5/..-G           |
| Product line              | COMBICON Connectors S |
| Type                      | Standard              |
| Number of positions       | 5                     |
| Pitch                     | 3.81 mm               |
| Number of connections     | 5                     |
| Number of rows            | 1                     |
| Number of potentials      | 5                     |
| Mounting type             | no                    |
| Pin layout                | Linear pinning        |
| Solder pins per potential | 1                     |

### Electrical properties

#### Properties

|                       |       |
|-----------------------|-------|
| Nominal current $I_N$ | 8 A   |
| Nominal voltage $U_N$ | 160 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 $\mu$ m - 5 $\mu$ m Sn)   |
| Metal surface contact area (middle layer)   | Nickel (1.3 $\mu$ m - 3 $\mu$ m Ni)  |
| Metal surface soldering area (top layer)    | Tin (3 $\mu$ m - 5 $\mu$ m Sn)   |
| Metal surface soldering area (middle layer) | Nickel (1.3 $\mu$ m - 3 $\mu$ m Ni)  |

#### Material data - housing

|  |             |
|--|-------------|
| Color (Housing)  | gray (7042) |
| 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         |

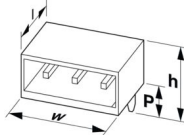
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|   |        |
|---|--------|
| Glow wire ignition temperature GWIT according to EN 60695-2-13    | 775    |
| Temperature for the ball pressure test according to EN 60695-10-2 | 125 °C |

## Dimensions

|                       |  |
|-----------------------|--|
| Dimensional drawing   |  |
| Pitch                 | 3.81 mm  |
| Width [w]             | 20.44 mm   |
| Height [h]            | 10.75 mm   |
| Length [l]            | 9.2 mm   |
| Installed height      | 7.25 mm  |
| Solder pin length [P] | 3.4 mm   |
| Pin dimensions        | 0.8 x 0.8 mm   |

## PCB design

|               |        |
|---------------|--------|
| Hole diameter | 1.2 mm |
|---------------|--------|

## Environmental and real-life conditions

### Ambient conditions

|   |   |
|---|---|
| Ambient temperature (storage/transport) | -40 °C ... 70 °C                                    |
| Relative humidity (storage/transport)   | 30 % ... 70 %                                       |
| Ambient temperature (assembly)          | -5 °C ... 100 °C                                    |
| Ambient temperature (operation)         | -40 °C ... 100 °C (dependent on the derating curve) |

## Packaging specifications

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

# MC 1,5/ 5-G-3,81 GY - PCB header




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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1880708>

|  <b>CSA</b><br>Approval ID: 13631 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| B  | 300 V                 | 8 A                   | -                 | -                           |
| D  | 300 V                 | 8 A                   | -                 | -                           |

|  <b>cULus Recognized</b><br>Approval ID: E60425-20110128 |                       |                       |                   |                             |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| B   | 300 V                 | 8 A                   | -                 | -                           |
| D   | 300 V                 | 8 A                   | -                 | -                           |

|  <b>VDE Zeichengenehmigung</b><br>Approval ID: 40011723 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine  | 160 V                 | 8 A                   | -                 | -                           |

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## Classifications

### ECLASS

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

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | 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% |
|-------------------------------------|----------------------------|

### EF3.1 Climate Change

|         |              |
|---------|--------------|
| CO2e kg | 0.01 kg CO2e |
|---------|--------------|

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