

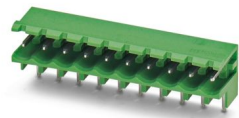
# MSTBW 2,5/ 3-G BU - PCB header

1965672

<https://www.phoenixcontact.com/us/products/1965672>



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PCB headers, nominal cross section: 2.5 mm<sup>2</sup>, color: blue, 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	1965672
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AA03
Product key	AACSGL
GTIN	4017918910761
Weight per piece (including packing)	1.431 g
Weight per piece (excluding packing)	1.138 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 flange	without
Pin layout	Linear pinning
Solder pins per potential	1

### Electrical properties

#### Properties

Nominal current $I_N$	12 A
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### 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)	blue (5015)
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
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125 °C
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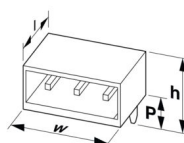
## Notes

Notes on operation
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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.
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## Dimensions

Dimensional drawing
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Pitch
-------

5 mm
------

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

15 mm
-------

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

15.95 mm
----------

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

12 mm
-------

Installed height
------------------

12.45 mm
----------

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

3.5 mm
--------

Pin dimensions
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11 mm
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## PCB design

Hole diameter
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1.4 mm
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## Environmental and real-life conditions

### Ambient conditions

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

30 % ... 70 %
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Ambient temperature (assembly)
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-5 °C ... 100 °C
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## Packaging specifications

Type of packaging
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packed in cardboard
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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1965672>

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

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

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

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## Classifications

### ECLASS

ECLASS-13.0	27460201
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### ETIM

ETIM 9.0	EC002637
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### 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	0.029 kg CO2e

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