# ME 12,5 OT-MSTBO SET - Upper housing part

2907428

https://www.phoenixcontact.com/us/products/2907428

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DIN rail housing, Set comprised of upper housing part, 4 PCB headers (2-pos.), and 4 PCB terminal blocks with screw connection (2-pos.), width: 12.6 mm, height: 99 mm, depth: 45.85 mm, color: green (similar RAL 6021)



## Your advantages

- Tool-free mounting
- Available in overall widths from 12.5 mm ... 90 mm, modular extension is possible
- Flammability rating V0 in accordance with UL 94
- Variety of connection technology
- Can be mounted on the DIN rail
- With integrated or DIN-rail-mountable bus connector as an option

## Commercial data

| | |
|---|---|
| Item number | 2907428 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | AC08 |
| Product key | ACHAAD |
| GTIN | 4017918131517 |
| Weight per piece (including packing) | 27.5 g |
| Weight per piece (excluding packing) | 25.94 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

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## Set consists of

### ME 12,5 OT-MSTBO GN - Upper housing part

2906814

https://www.phoenixcontact.com/us/products/2906814

DIN rail housing, Upper housing part for connectors with header, width: 12.6 mm, height: 99 mm, depth: 45.85 mm, color: green (similar RAL 6021)

### MSTBO 2,5/ 2-G1L - PCB header

1861057

https://www.phoenixcontact.com/us/products/1861057

PCB headers, nominal cross section: 2.5 mm$^2$, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Sn, contact connection type: Pin, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: MSTBO 2,5/..-G1L, 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: Orthogonal, locking: without, type of packaging: packed in cardboard, Product with pin output on left side

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## MSTBO 2,5/ 2-G1R - PCB header

1861044

https://www.phoenixcontact.com/us/products/1861044

PCB headers, nominal cross section: 2.5 mm$^2$, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Sn, contact connection type: Pin, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: MSTBO 2,5/..-G1R, pitch: 5 mm, connection method: pluggable, 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: Orthogonal, locking: without, type of packaging: packed in cardboard, Product with pin output on right side

## MSTBT 2,5/ 2-ST - PCB connector

1779835

https://www.phoenixcontact.com/us/products/1779835

PCB connector, nominal cross section: 2.5 mm$^2$, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Sn, contact connection type: Socket, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: MSTBT 2,5/..-ST, pitch: 5 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting method: without, type of packaging: packed in cardboard

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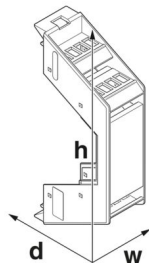https://www.phoenixcontact.com/us/products/2907428

## Technical data

### Notes

| | |
|---|---|
| Assembly note | Please observe the application note in the download area. |

### Product properties

| | |
|---|---|
| Product type | Upper housing part |
| Housing type | DIN rail housing |
| Housing series | ME |
| Product family | ME 12,5.. |
| Max. number of positions | 8 (pitch: 5 mm) |
| Number of rows | 2 |
| Ventilation openings present | no |

### Dimensions

| | |
|---|---|
| Dimensional drawing | |

| | |
|---|---|
| Width | 12.6 mm |
| Height | 99 mm |
| Depth | 45.85 mm |
| Depth from base support surface | 38.5 mm |

| PCB design | |
|---|---|
| PCB thickness | 1.4 mm ... 1.8 mm |

### Material specifications

| | |
|---|---|
| Color (Upper housing part) | green (RAL 6021) |
| Material Upper housing part | PA |
| Flammability rating according to UL 94 | V0 |
| CTI according to IEC 60112 | 600 |
| Surface characteristics | untreated |

### Environmental and real-life conditions

| Vibration test | |
|---|---|
| Specification | IEC 60068-2-6:2007-12 |
| Frequency | 10 - 150 - 10 Hz |
| Sweep speed | 1 octave/min |

| Amplitude | 0.15 mm (10 Hz ... 58.1 Hz) |
|---|---|
| Acceleration | 2g (58.1 Hz ... 150 Hz) |
| Test duration per axis | 2.5 h |
| Test directions | X-, Y- and Z-axis |

Glow-wire test

| Specification | IEC 60695-2-11:2014-02 |
|---|---|
| Temperature | 850 °C |
| Time of exposure | 30 s |

Thermal stability / ball thrust test

| Specification | IEC 60695-10-2:2014-02 |
|---|---|
| Temperature | 125 °C |
| Test duration | 1 h |
| Force | 20 N |

Mechanical strength / tumbling barrel

| Specification | IEC 60998-1:2002-12 |
|---|---|
| Height of fall | 50 cm |
| Frequency | 10 |

Shocks

| Specification | IEC 60068-2-27:2008-02 |
|---|---|
| Pulse shape | Half-sine |
| Acceleration | 15g |
| Shock duration | 11 ms |
| Number of shocks per direction | 3 |
| Test directions | X-, Y- and Z-axis (pos. and neg.) |

Degree of protection (IP code)

| Specification | IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-08 |
|---|---|

Ambient conditions

| Max. IP code to attain | IP20 |
|---|---|
| Ambient temperature (operation) | -40 °C ... 105 °C (depending on power dissipation) |
| Ambient temperature (storage/transport) | -40 °C ... 55 °C |
| Ambient temperature (assembly) | -5 °C ... 100 °C |
| Relative humidity (storage/transport) | 80 % |

## PCB data

| Number of PCB holders | 1 |
|---|---|
| Type of PCB mount | Slot |
| Thickness of the PCB | 1.4 mm ... 1.8 mm |

## Mounting

| Mounting type | Latching with lower housing part |
|---|---|

## Packaging specifications

| | |
|---|---|
| Type of packaging | packed in cardboard |
| Outer packaging type | Carton |

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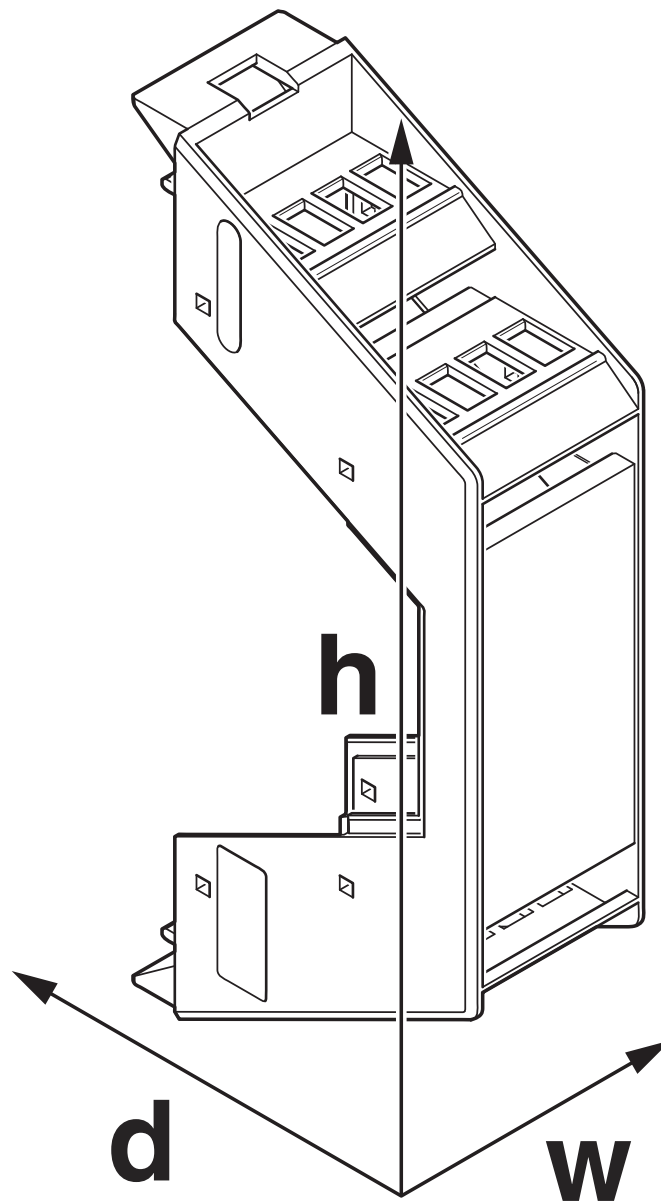https://www.phoenixcontact.com/us/products/2907428

## Drawings

Dimensional drawing



Schematic figure for illustrating the item dimensions. The figure is not of the desired product. For further details, refer to the product drawings in the "Downloads" tab.

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27190401 |
| ECLASS-15.0 | 27190401 |

### ETIM

| | |
|---|---|
| ETIM 9.0 | EC001031 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 31261500 |

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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-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

| | |
|---|---|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |