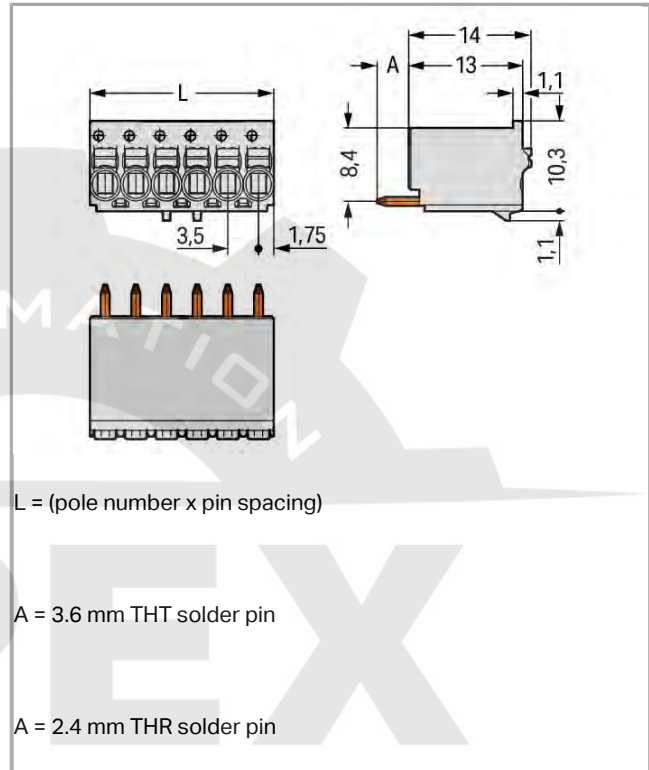


**Data sheet | Item number: 2091-1152/000-5000**

1-conductor THT female header; 1.0 mm Ø solder pin; straight; Gripping plate; direct marking; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 2-pole; 1,50 mm<sup>2</sup>; light gray



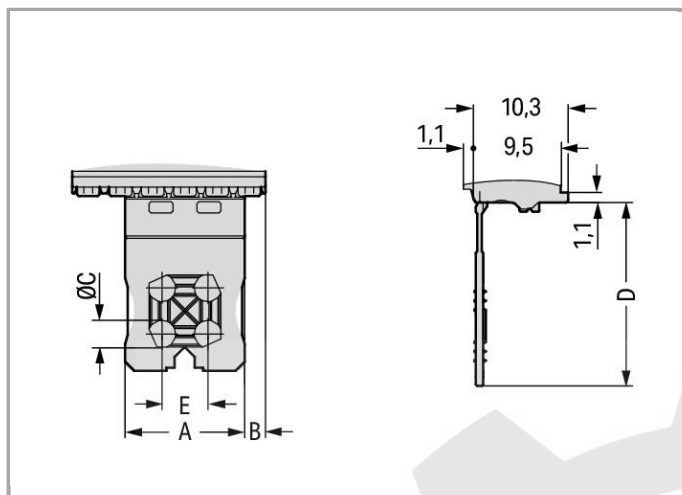
2091-1152\_000-5000



RoHS Compliant

BOMcheck.net

Color:



### Item description

- Universal connection for all conductor types
- Simple, push-in termination of solid and ferruled conductors
- Easy-to-use design does not require special tools
- Ability to wire while mated or unmated
- Integrated test ports for testing parallel to conductor entry
- Custom-installed solder pins

### Safety information 1:

The **picoMAX<sup>®</sup> pluggable connection system** is designed without breaking capacity for compliance with DIN EN 61984. When used as intended, MCS Connectors shall not be connected/disconnected when live or under load. The circuit design should ensure header pins, which can be touched, are not live when unmated.

### Data

#### Electrical data

#### Ratings per IEC/EN 60664-1

|                                 |        |
|---------------------------------|--------|
| Rated voltage (III / 3)         | 160 V  |
| Rated impulse voltage (III / 3) | 2.5 kV |
| Rated voltage (III / 2)         | 160 V  |
| Rated impulse voltage (III / 2) | 2.5 kV |
| Rated voltage (II / 2)          | 320 V  |
| Rated impulse voltage (II / 2)  | 2.5 kV |
| Rated current                   | 10 A   |

#### Approvals per UL 1059

|                                |       |
|--------------------------------|-------|
| Rated voltage UL (Use Group B) | 300 V |
|--------------------------------|-------|

|                                |       |
|--------------------------------|-------|
| Rated current UL (Use Group B) | 10 A  |
| Rated voltage UL (Use Group D) | 300 V |

### Connection data

|                                                             |                         |
|-------------------------------------------------------------|-------------------------|
| Connection technology                                       | Push-in CAGE CLAMP®     |
| Actuation type                                              | Push-button             |
| Solid conductor                                             | 0.2 1.5 mm² / 24 14 AWG |
| Fine-stranded conductor                                     | 0.2 1.5 mm² / 24 14 AWG |
| Fine-stranded conductor with ferrule with plastic collar    | 0.25 0.75 mm²           |
| Fine-stranded conductor with ferrule without plastic collar | 0.25 1.5 mm²            |
| Strip length                                                | 8 9 mm / 0.31 0.35 inch |
| Conductor entry angle to the PCB                            | 90°                     |
| Total number of connection points                           | 2                       |
| Total number of potentials                                  | 2                       |
| Number of connection types                                  | 1                       |
| Number of levels                                            | 1                       |
| No. of poles                                                | 2                       |

### Geometrical Data

|                                   |                                |
|-----------------------------------|--------------------------------|
| Pin spacing                       | 3.5 mm / 0.138 inch            |
| Width                             | 7 mm / 0.276 inch              |
| Height                            | 30 mm / 1.181 inch             |
| Depth                             | 11.4 mm / 0.449 inch           |
| Solder pin length                 | 3.6 mm                         |
| Solder pin diameter               | 1 mm                           |
| Drilled hole diameter (tolerance) | 1.2 <sup>(- ... +0.1)</sup> mm |

### Mechanical data

|        |                     |
|--------|---------------------|
| Design | With gripping plate |
|--------|---------------------|

### Plug connection

|                                    |                         |
|------------------------------------|-------------------------|
| Contact type (pluggable connector) | Female connector/socket |
| Connector connection type          | for PCBs                |
| Mismating protection               | No                      |
| Mating direction to the PCB        | 90°                     |

### PCB contact

|             |     |
|-------------|-----|
| PCB contact | THT |
|-------------|-----|

## Material Data

|                             |                                        |
|-----------------------------|----------------------------------------|
| Color                       | light gray                             |
| Material group              | I                                      |
| Insulating material         | Polyphthalamide (PPA GF)               |
| Flammability class per UL94 | V0                                     |
| Clamping spring material    | Chrome nickel spring steel (CrNi)      |
| Contact material            | Electrolytic copper (E <sub>Cu</sub> ) |
| Contact plating             | tin-plated                             |
| Fire load                   | 0.023 MJ                               |
| Weight                      | 1.121 g                                |

## Environmental Requirements

|                         |             |
|-------------------------|-------------|
| Limit temperature range | -60 +100 °C |
|-------------------------|-------------|

## Commercial data

|                    |               |
|--------------------|---------------|
| Country of origin  | DE            |
| GTIN               | 4050821366508 |
| Customs Tariff No. | 85366990990   |

## Approvals / Certificates

## Radio-Approvals

| Logo                                                                               | Approval                                     | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|----------------------------------------------|--------------------------|------------------|
|                                                                                    | <b>CB</b><br>DEKRA Certification B.V.        | IEC 61984                | NL-49736         |
|  | <b>KEMA/KEUR</b><br>DEKRA Certification B.V. | EN 61984                 | 71-102260        |

## Country specific Approvals

| Logo                                                                               | Approval                                     | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|----------------------------------------------|--------------------------|------------------|
|                                                                                    | <b>CB</b><br>DEKRA Certification B.V.        | IEC 61984                | NL-49736         |
|  | <b>CSA</b><br>DEKRA Certification B.V.       | C22.2                    | 2362521          |
|  | <b>KEMA/KEUR</b><br>DEKRA Certification B.V. | EN 61984                 | 71-102260        |

## Other Approvals

| Logo                                                                             | Approval                             | Additional Approval Text | Certificate name |
|----------------------------------------------------------------------------------|--------------------------------------|--------------------------|------------------|
|  | UR<br>Underwriters Laboratories Inc. | UL 1059                  | E45172           |
|  | UR<br>Underwriters Laboratories Inc. | UL 1059                  | E45172           |

## UL-Approvals

| Logo                                                                             | Approval                             | Additional Approval Text | Certificate name |
|----------------------------------------------------------------------------------|--------------------------------------|--------------------------|------------------|
|  | UR<br>Underwriters Laboratories Inc. | UL 1059                  | E45172           |

## Compatible products

## Coding

|                                                                                    |                                                                                            |           |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------|
|  | Item no.: 2091-1610<br>Coding key carrier; suitable for 3.5 mm pin spacing; orange         | 2091-1610 |
| <b>tools</b>                                                                       |                                                                                            |           |
|  | Item no.: 210-719<br>Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft | 210-719   |
| <b>check</b>                                                                       |                                                                                            |           |
|  | Item no.: 735-500<br>Test pin; 1 mm Ø; with solder connection for test wire                | 735-500   |

## Downloads

## Documentation

## Additional Information

|                        |             |               |          |
|------------------------|-------------|---------------|----------|
| Technical explanations | Apr 3, 2019 | pdf<br>3.6 MB | Download |
|------------------------|-------------|---------------|----------|

Product family

picoMAX eCOM

Show all products from the family



Subject to changes.

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