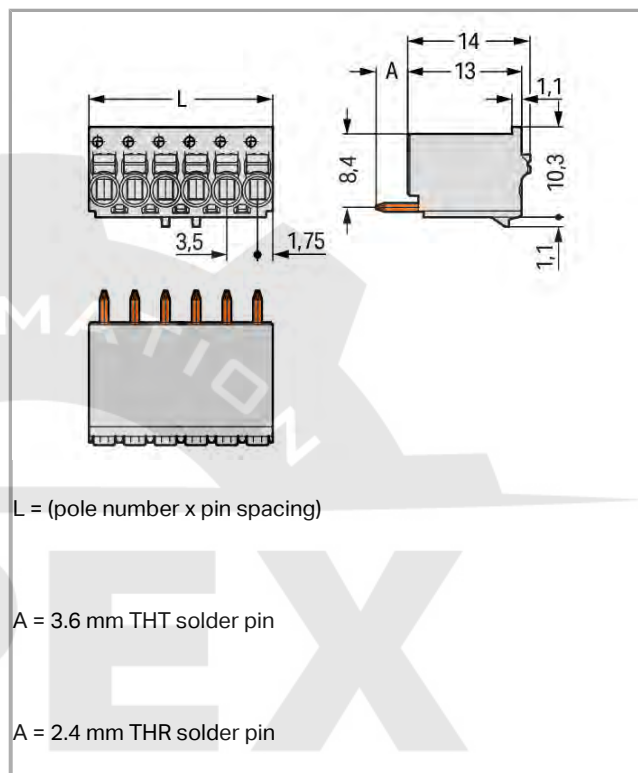


## Data sheet | Item number: 2091-1172/000-5000

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



2091-1172\_000-5000



RoHS Compliant

[BOMcheck.net](https://www.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® 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              | 14 mm / 0.551 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 |
|-----------------------------------|--------------------------------|

## 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                   | 0.021 MJ                               |
| Weight                      | 1.051 g                                |

## Environmental Requirements

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

## Commercial data

|                    |               |
|--------------------|---------------|
| Country of origin  | DE            |
| GTIN               | 4050821369172 |
| Customs Tariff No. | 85366990990   |

## Approvals / Certificates

### Radio-Approvals

| Logo                                                                               | Approval                              | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|---------------------------------------|--------------------------|------------------|
|                                                                                    | CB<br>DEKRA Certification B.V.        | IEC 61984                | NL-49736         |
|  | KEMA/KEUR<br>DEKRA Certification B.V. | EN 61984                 | 71-<br>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 |
|------------------------------------------------------------------------------------|---------------------------------------------|--------------------------|------------------|
|    | <b>UR</b><br>Underwriters Laboratories Inc. | UL 1059                  | E45172           |
|  | <b>UR</b><br>Underwriters Laboratories Inc. | UL 1059                  | E45172           |

#### UL-Approvals

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

#### Compatible products

##### check



Item no.: 735-500  
 Test pin; 1 mm Ø; with solder connection for test wire

735-500

##### Coding



Item no.: 2091-1610  
 Coding key carrier; suitable for 3.5 mm pin spacing; orange

2091-1610

##### tools



Item no.: 210-719  
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

210-719

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.