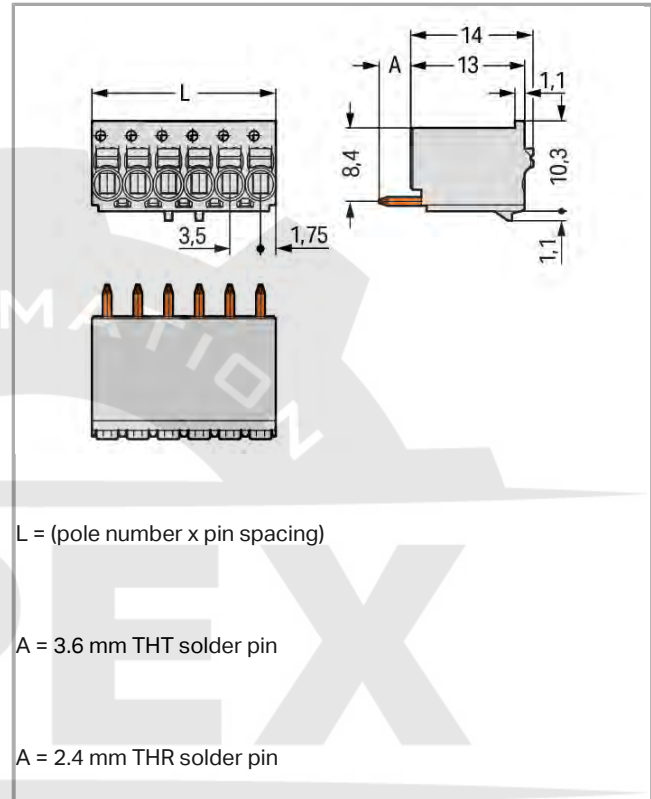
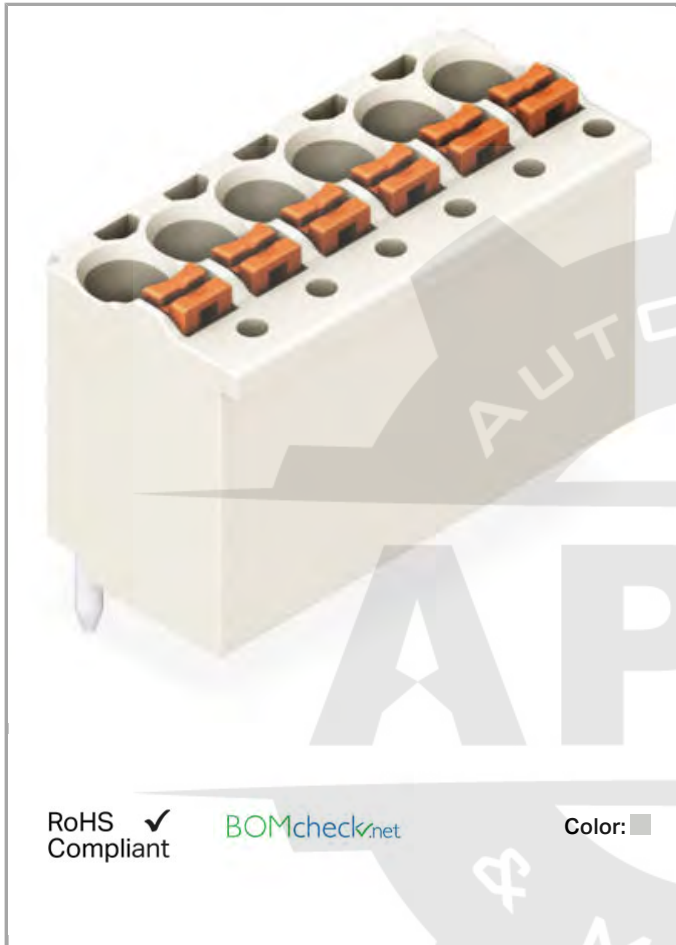


## Data sheet | Item number: 2091-1180

1-conductor THT female header; 1.0 mm Ø solder pin; straight; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 10-pole



2091-1180



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

### 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 |
| Rated current UL (Use Group D) | 10 A  |

## 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°                             |
| No. of poles                                                | 10                              |
| Total number of connection points                           | 10                              |
| Total number of potentials                                  | 10                              |
| Number of connection types                                  | 1                               |
| Number of levels                                            | 1                               |

## Geometrical Data

|                                   |                                |
|-----------------------------------|--------------------------------|
| Pin spacing                       | 3.5 mm / 0.138 inch            |
| Width                             | 35 mm / 1.378 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                   | 0.113 MJ                               |
| Weight                      | 5 g                                    |

## Environmental Requirements

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

## Commercial data

|                    |               |
|--------------------|---------------|
| Product Group      | 26 (picoMAX)  |
| Country of origin  | DE            |
| GTIN               | 4050821162469 |
| Customs Tariff No. | 85366990990   |

## Approvals / Certificates

### 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>CSA</b>                             | C22.2                    | 2362521          |



DEKRA Certification B.V.



KEMA/KEUR  
DEKRA Certification B.V.

EN 61984

71-  
102260

## UL-Approvals

| Logo                                                                              | Approval                             | Additional Approval Text | Certificate name    |
|-----------------------------------------------------------------------------------|--------------------------------------|--------------------------|---------------------|
|   | UR<br>Underwriters Laboratories Inc. | UL 1059                  | E45172              |
|   | UR<br>Underwriters Laboratories Inc. | UL 1977                  | 20170428-<br>E45171 |
|  | UR<br>Underwriters Laboratories Inc. | UL 1059                  | E45172              |

## Compatible products

### tools



Item no.: 210-719  
Operating tool with partially insulated shaft; Type 1, blade (2.5 x 0.4) mm

210-719

### Coding



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

2091-1610

### check



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

735-500

## Downloads

### Documentation

### Additional Information

pdf  
3.6 MB

Download



CAD/CAE - Smart Data

CAD data

|                       |     |          |
|-----------------------|-----|----------|
| 3D Download 2091-1180 | URL | Download |
|-----------------------|-----|----------|

Product family

picoMAX eCOM  
Show all products from the family



Subject to changes.