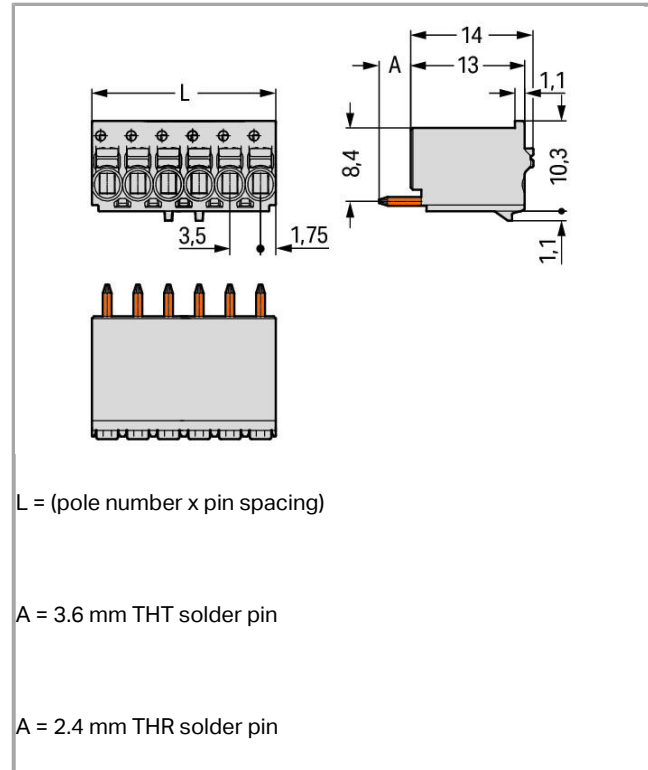
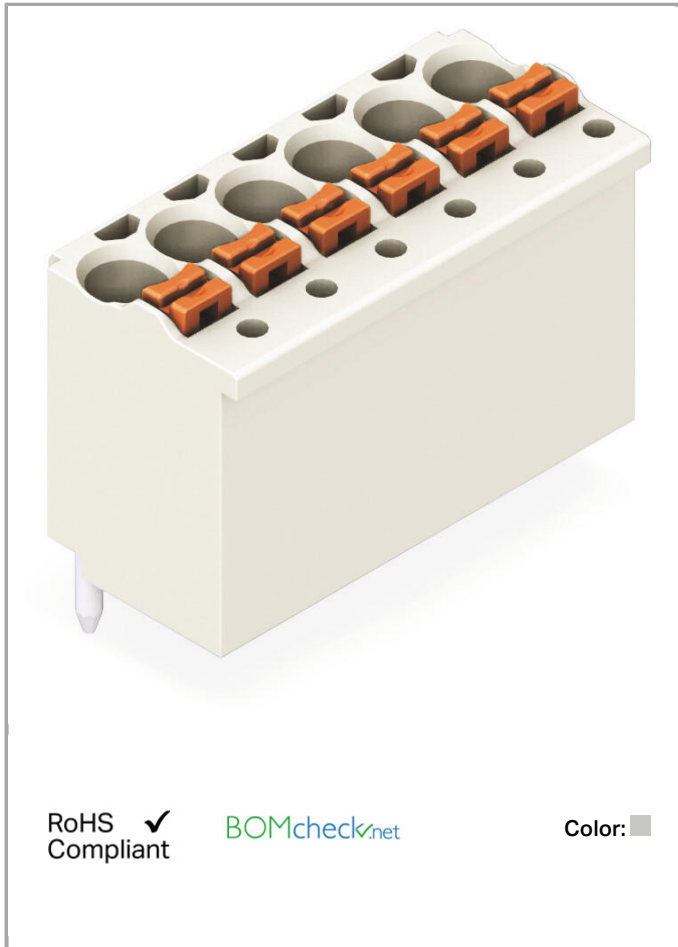


Data sheet | Item number: 2091-1180/200-000/997-407

1-conductor THR female header; 1.0 mm Ø solder pin; straight; in tape-and-reel packaging; 1.5 mm²; Pin spacing 3.5 mm; 10-pole; 1,50 mm²; light gray



2091-1180_200-000_997-407



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 specialty tools
- Ability to wire while mated or unmated
- Integrated test ports for testing parallel to conductor entry
- Factory-installed, straight or angled solder pins allow horizontal or vertical mounting to the PCB

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 mm ² / 24 14 AWG |
| Fine-stranded conductor | 0.2 1.5 mm ² / 24 14 AWG |
| Fine-stranded conductor with ferrule with plastic collar | 0.25 0.75 mm ² |
| Fine-stranded conductor with ferrule without plastic collar | 0.25 1.5 mm ² |
| Strip length | 8 9 mm / 0.31 0.35 inch |
| Conductor entry angle to the PCB | 90° |
| Total number of connection points | 10 |
| Total number of potentials | 10 |
| Number of connection types | 1 |
| Number of levels | 1 |
| No. of poles | 10 |

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 | 2.4 mm |
| Solder pin diameter | 1 mm |

Plug connection

| | |
|------------------------------------|-------------------------|
| Contact type (pluggable connector) | Female connector/socket |
| Connector connection type | for PCBs |
| Mismating protection | No |

PCB contact

| | |
|-------------|-----|
| PCB contact | THR |
|-------------|-----|

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 _{Cu}) |
| Contact plating | tin-plated |
| Weight | 5.44 g |

Environmental Requirements



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

Commercial data

| | |
|--------------------|---------------|
| Country of origin | DE |
| GTIN | 4055143485395 |
| Customs Tariff No. | 85366990990 |


Approvals / Certificates

Other Approvals




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

UL-Approvals

Certificate

| Logo | Approval | Additional Approval Text | name |
|--|--------------------------------------|--------------------------|--------|
|  | UR 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 |
| tools | | |
|  | Item no.: 210-719 Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft | 210-719 |
| Coding | | |
|  | Item no.: 2091-1610 Coding key carrier; suitable for 3.5 mm pin spacing; orange | 2091-1610 |

Downloads

Documentation

Additional Information

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

Product family

picoMAX eCOM

[Show all products from the family](#)

Subject to changes.