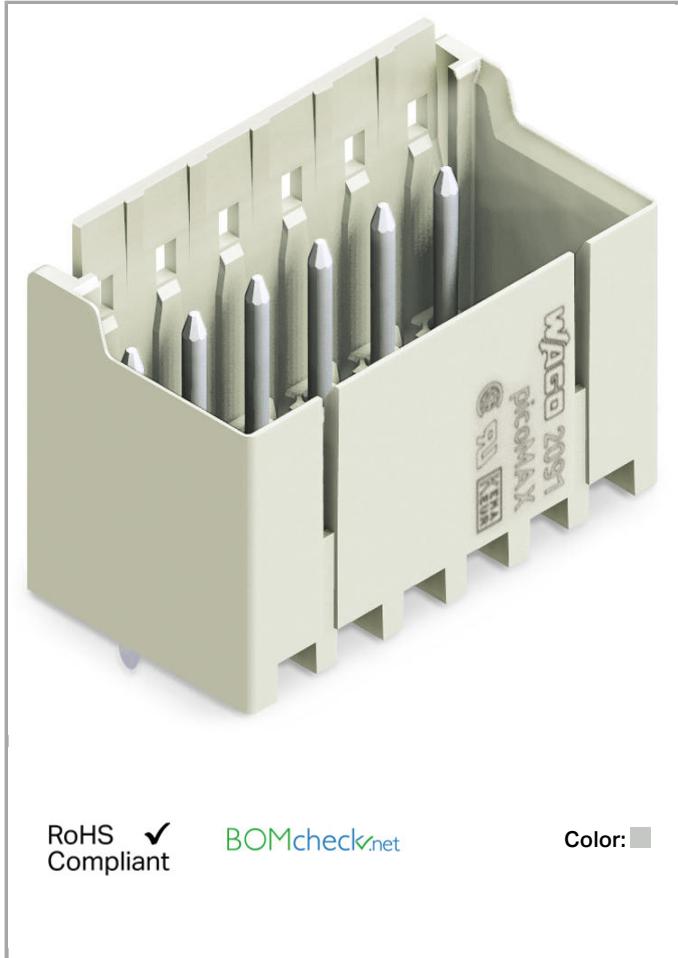


## Data sheet | Item number: 2091-1405/200-000

THR male header; 1.0 mm Ø solder pin; straight; Pin spacing 3.5 mm; 5-pole

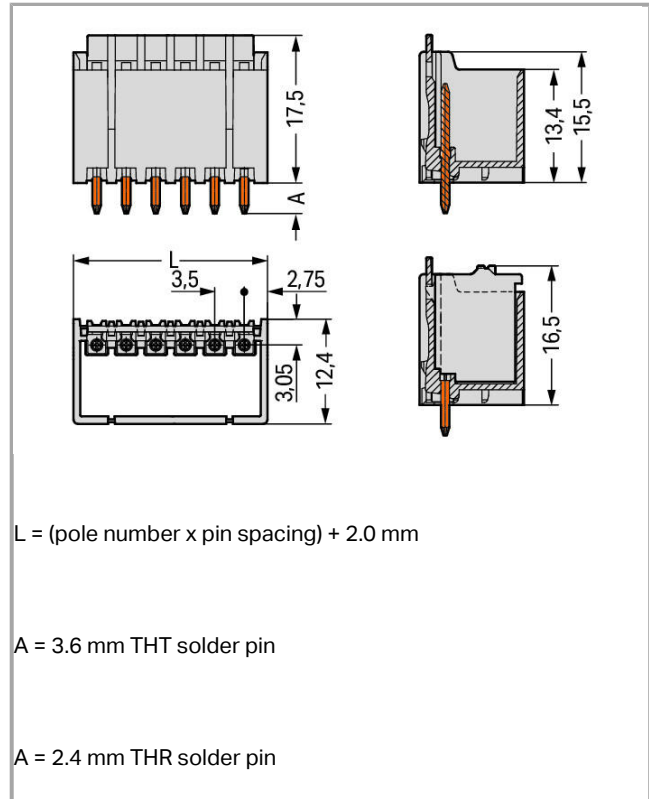
2091-1405/200-000



RoHS  
Compliant ✓

BOMcheck.net

Color: ■



### Item description

- Assembly of female connectors without loss of poles, allowing different functions to be divided within one male header
- Coding pins inserted into the header interface prevent mismating, allowing subsequent coding in panel feedthrough applications
- The female connector is fully shrouded by the male header's housing, providing vibration resistance up to 20 g

### 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

|                            |   |
|----------------------------|---|
| No. of poles               | 5 |
| Total number of potentials | 5 |
| Number of connection types | 1 |
| Number of levels           | 1 |

#### Geometrical Data

|                         |                      |
|-------------------------|----------------------|
| Pin spacing             | 3.5 mm / 0.138 inch  |
| Width                   | 19.5 mm / 0.768 inch |
| Height                  | 19.9 mm / 0.783 inch |
| Height from the surface | 17.5 mm / 0.689 inch |
| Depth                   | 12.4 mm / 0.488 inch |
| Solder pin length       | 2.4 mm               |
| Solder pin diameter     | 1 mm                 |

#### Plug connection

|                                    |                     |
|------------------------------------|---------------------|
| Contact type (pluggable connector) | Male connector/plug |
| Connector connection type          | for PCBs            |
| Mismating protection               | No                  |
| Mating direction to the PCB        | 90°                 |
| Locking of plug-in connection      | Male locking latch  |

#### PCB contact

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

#### Material Data

|       |            |
|-------|------------|
| Color | light gray |
|-------|------------|

|                             |                                        |
|-----------------------------|----------------------------------------|
| Material group              | I                                      |
| Insulating material         | Polyphthalamide (PPA GF)               |
| Flammability class per UL94 | V0                                     |
| Contact material            | Electrolytic copper (E <sub>Cu</sub> ) |
| Contact plating             | tin-plated                             |
| Fire load                   | 0.038 MJ                               |
| Weight                      | 1.78 g                                 |

## Environmental Requirements

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

## Commercial data

|                    |               |
|--------------------|---------------|
| Country of origin  | DE            |
| GTIN               | 4050821396123 |
| 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>KEMA/KEUR</b><br>DEKRA Certification B.V. | EN 61984                 | 71-<br>102260    |

### UL-Approvals

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

## Compatible products

### Coding



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

2091-1610

Downloads  
Documentation

Additional Information

pdf  
3.6 MB  
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CAD/CAE - Smart Data

CAD data

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