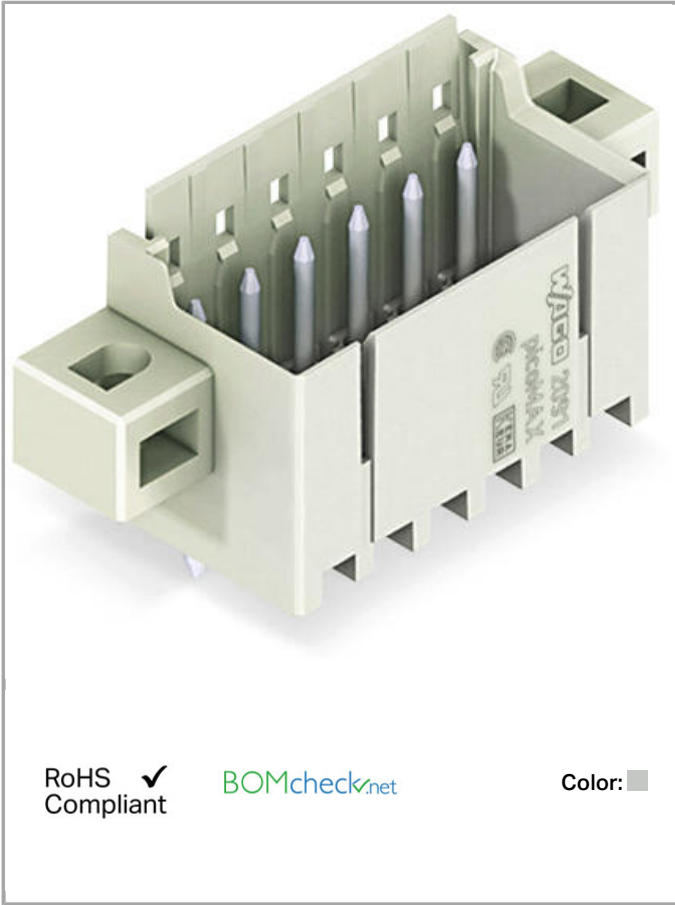


## Data sheet | Item number: 2091-1405/005-000

THT male header; 1.0 mm Ø solder pin; straight; clamping collar; Pin spacing 3.5 mm; 5-pole



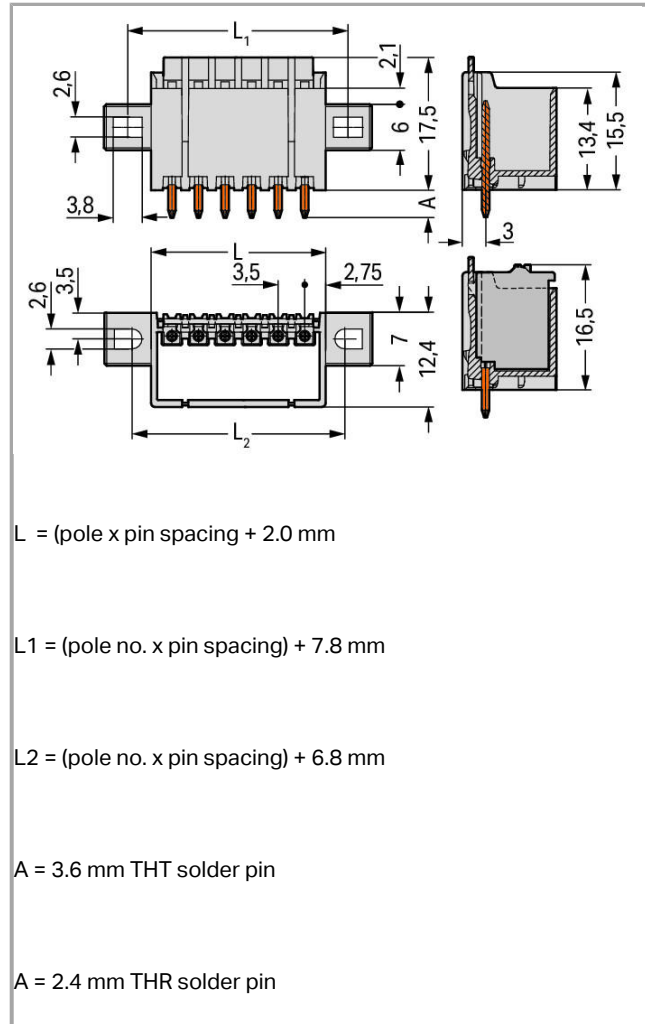
2091-1405/005-000



RoHS   
 Compliant

[BOMcheck.net](https://www.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

### 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 |
| 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                             | 31.5 mm / 1.24 inch            |
| Height                            | 21.1 mm / 0.831 inch           |
| Height from the surface           | 17.5 mm / 0.689 inch           |
| Depth                             | 12.4 mm / 0.488 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

|                  |                                         |
|------------------|-----------------------------------------|
| Mounting type    | Mounting flange                         |
| Type of mounting | Feed-through mounting<br>Panel mounting |

## 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 | THT |
|-------------|-----|

## 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                   | 0.054 MJ                               |
| Weight                      | 2.31 g                                 |

## Environmental Requirements

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

## Commercial data

|                    |               |
|--------------------|---------------|
| Product Group      | 26 (picoMAX)  |
| Country of origin  | DE            |
| GTIN               | 4050821161462 |
| 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          |



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 1977                  | 20170428-E45171  |
|  | 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 | 2091-1610 |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------|

#### Downloads

##### Documentation

##### Additional Information

pdf  
3.6 MB

Download

#### CAD/CAE - Smart Data

##### CAD data

|                               |     |          |
|-------------------------------|-----|----------|
| 3D Download 2091-1405/005-000 | URL | Download |
|-------------------------------|-----|----------|



## Product family

**picoMAX**

[Learn more about the product family.](#)

[Show all products from the family](#)

Subject to changes.

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