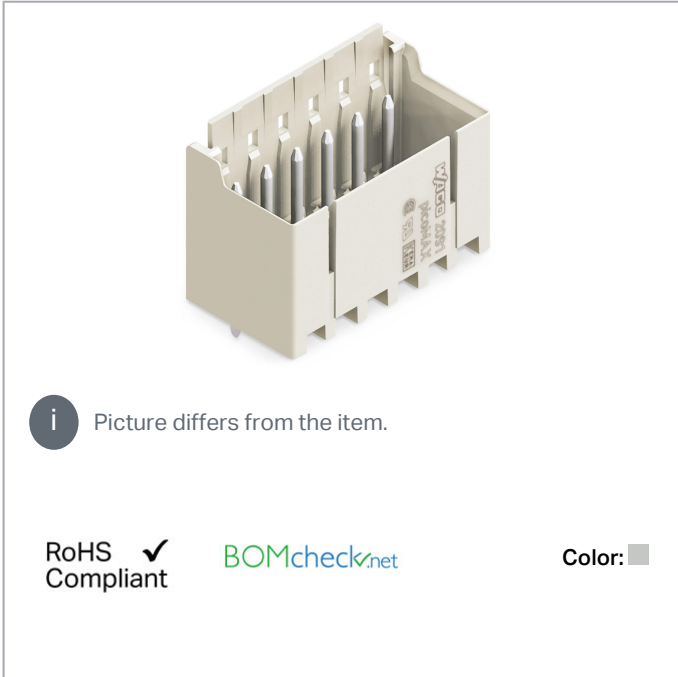


Data sheet | Item number: 2091-1407/200-000

THR male header; 1.0 mm Ø solder pin; straight; Pin spacing 3.5 mm; 7-pole;
light gray



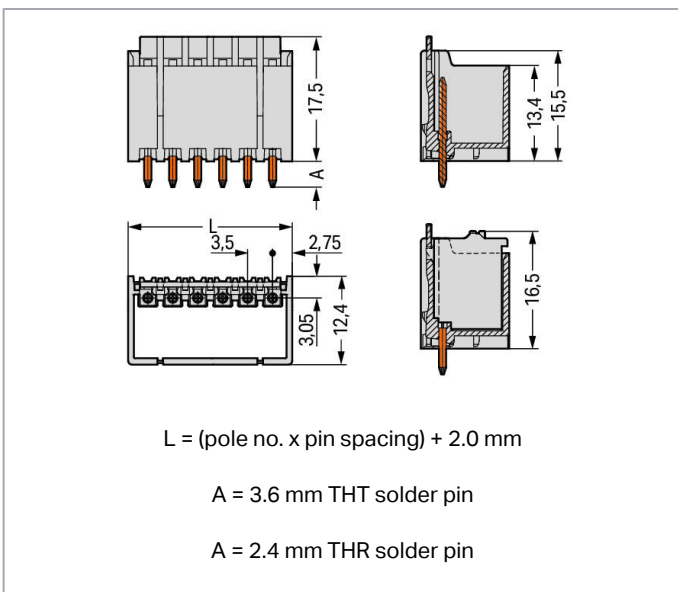
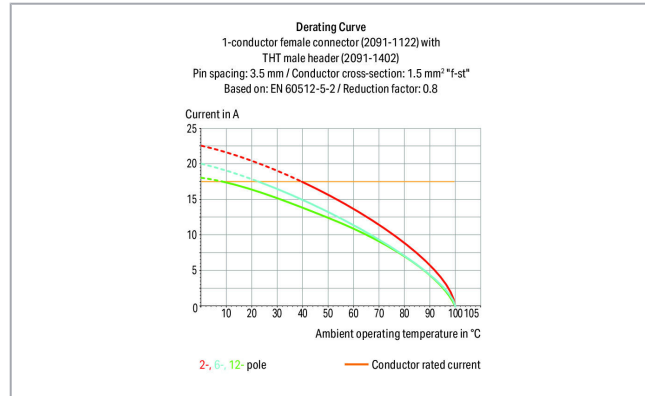
www.wago.com/2091-1407/200-000



i Picture differs from the item.

RoHS Compliant [BOMcheck.net](https://www.bomcheck.net)

Color:



Item description

Subject to changes. Please also observe the further product documentation!

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- 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 mismatching, 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** includes connectors without breaking capacity in accordance with DIN EN 61984. When used as intended, these connectors must 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

| Ratings per | IEC/EN 60664-1 |
|-----------------------------|---|
| Nominal voltage (III/3) | 160 V |
| Rated surge voltage (III/3) | 2.5 kV |
| Rated voltage (III/2) | 160 V |
| Rated surge voltage (III/2) | 2.5 kV |
| Nominal voltage (II/2) | 320 V |
| Rated surge voltage (II/2) | 2.5 kV |
| Rated current | 10 A |
| Legend (ratings) | (III / 2) ≙ Overvoltage category III / Pollution degree 2 |

Ratings per UL

| 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 |

Ratings per CSA

| Approvals per | CSA |
|---------------|-----|
| | |

Connection data

| | |
|----------------------------|---|
| Pole No. | 7 |
| Total number of potentials | 7 |
| Number of connection types | 1 |

Subject to changes. Please also observe the further product documentation!



| | |
|------------------|---|
| Number of levels | 1 |
|------------------|---|

Physical data

| | |
|------------------------------------|--------------------------|
| Pin spacing | 3.5 mm / 0.138 inch |
| Width | 26.5 mm / 1.043 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 |
| Plated through-hole diameter (THR) | 1.2 ^(+0.1) mm |

Plug-in connection

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

PCB contact

| | |
|-------------|-----|
| PCB Contact | THR |
|-------------|-----|

Material data

| | |
|-----------------------------|--|
| Color | light gray |
| Material group | I |
| Insulation material | Polyphthalamide (PPA GF) |
| Flammability class per UL94 | V0 |
| Contact material | Electrolytic copper (E _{Cu}) |
| Contact plating | tin-plated |
| Weight | 2.4 g |

Environmental requirements

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

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Commercial data


| | |
|-----------------------|---------------|
| Packaging type | BOX |
| Country of origin | DE |
| GTIN | 4055143460927 |
| Customs tariff number | 85366990990 |

Approvals / Certificates

Country specific Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|---|--|--------------------------|------------------|
| | CB DEKRA Certification B.V. | IEC 61984 | NL-49736 /A1 |
|  | CSA DEKRA Certification B.V. | C22.2 | 2362521 |
|  | KEMA/KEUR DEKRA Certification B.V. | EN 61984 | 71-102260 REV.1 |

UL-Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|--|---|--------------------------|------------------|
|  | UL Underwriters Laboratories Inc. | UL 1977 | 20190909-E45171 |

Counterpart



Item no.2091-1127

1-conductor female plug; 1.5 mm²; Pin spacing 3.5 mm; 7-pole; 1,50 mm²; light graywww.wago.com/2091-1127

Downloads

Documentation

Additional Information

Subject to changes. Please also observe the further product documentation!

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| | | | |
|------------------------|------------|-----------------|----------|
| Technical explanations | 3. 4. 2019 | pdf 2.0 MB | Download |
| THR Soldering Process | | pdf 402.7 kB | Download |

CAD/CAE-Data

CAD data

| | | |
|--------------------------------|-----|----------|
| 2D/3D Models 2091-1407/200-000 | URL | Download |
|--------------------------------|-----|----------|

CAE data

| | | |
|--------------------------------|-----|----------|
| ZUKEN Portal 2091-1407/200-000 | URL | Download |
|--------------------------------|-----|----------|

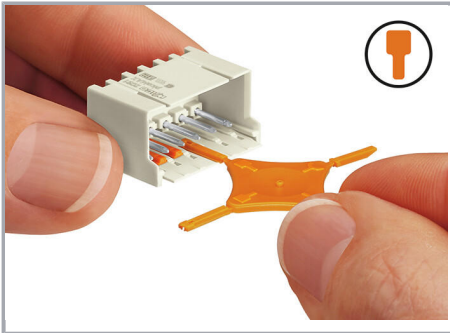
Environmental Product Compliance

Compliance Search

| | | |
|--|-----|----------|
| Environmental Product Compliance 2091-1407/200-000 | URL | Download |
| THR male header; 1.0 mm Ø solder pin; straight; Pin spacing 3.5 mm; 7-pole; light gray | | |

Installation Notes

Coding



Coding a male header (via coding key carrier and two keys for male header, see symbol).

Product family

[*<i>picoMAX</i>[®]</sup> 3.5*](#)
[Show all products from the family](#)

Subject to changes. Please also observe the further product documentation!