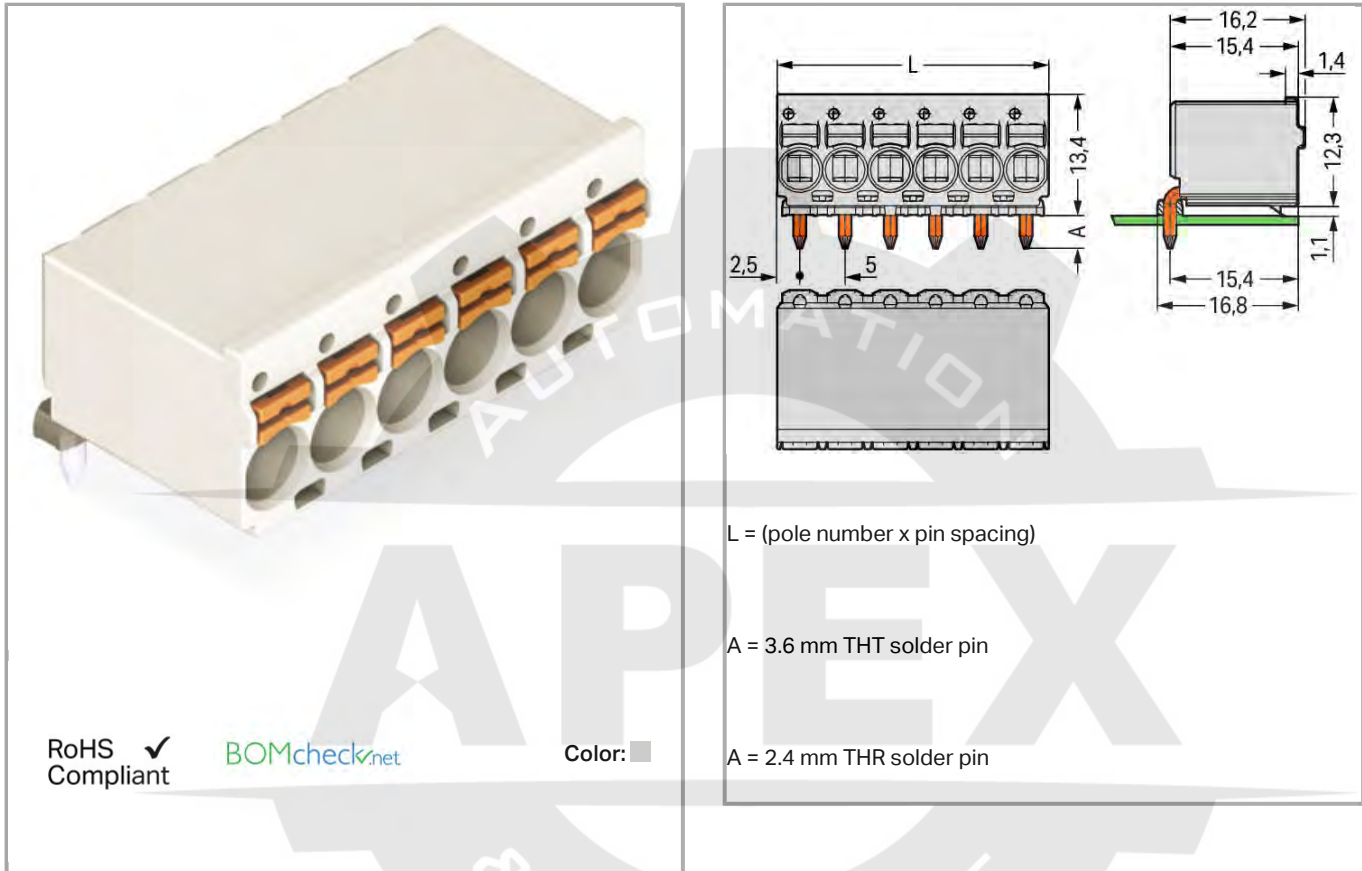


## Data sheet | Item number: 2092-1378

1-conductor THT female header; 1.4 mm Ø solder pin; angled; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 8-pole



2092-1378



### 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

### 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)         | 250 V |
| Rated impulse voltage (III / 3) | 4 kV  |
| Rated voltage (III / 2)         | 320 V |
| Rated impulse voltage (III / 2) | 4 kV  |
| Rated voltage (II / 2)          | 630 V |
| Rated impulse voltage (II / 2)  | 4 kV  |
| Rated current                   | 16 A  |

#### Approvals per UL 1059

|                                |       |
|--------------------------------|-------|
| Rated voltage UL (Use Group B) | 300 V |
| Rated current UL (Use Group B) | 15 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 ... 2.5 mm <sup>2</sup> / 24 ... 12 AWG |
| Fine-stranded conductor                                     | 0.2 ... 2.5 mm <sup>2</sup> / 24 ... 12 AWG |
| Fine-stranded conductor with ferrule with plastic collar    | 0.25 ... 1.5 mm <sup>2</sup>                |
| Fine-stranded conductor with ferrule without plastic collar | 0.25 ... 2.5 mm <sup>2</sup>                |
| Strip length                                                | 9 ... 10 mm / 0.35 ... 0.39 inch            |
| Conductor entry angle to the PCB                            | 0°                                          |
| No. of poles                                                | 8                                           |
| Total number of connection points                           | 8                                           |
| Total number of potentials                                  | 8                                           |
| Number of connection types                                  | 1                                           |
| Number of levels                                            | 1                                           |

#### Geometrical Data

|             |                      |
|-------------|----------------------|
| Pin spacing | 5 mm / 0.197 inch    |
| Width       | 40 mm / 1.575 inch   |
| Height      | 13.4 mm / 0.528 inch |
| Depth       | 15.4 mm / 0.606 inch |



|                                   |                                |
|-----------------------------------|--------------------------------|
| Solder pin length                 | 3.6 mm                         |
| Solder pin diameter               | 1.4 mm                         |
| Drilled hole diameter (tolerance) | 1.6 <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        | 0°                      |

## 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                   | 0.176 MJ                               |
| Weight                      | 9.129 g                                |

## Environmental Requirements

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

## Commercial data

|                    |               |
|--------------------|---------------|
| Product Group      | 26 (picoMAX)  |
| Country of origin  | DE            |
| GTIN               | 4050821164999 |
| Customs Tariff No. | 85366990990   |

## Approvals / Certificates

### UL-Approvals

| Logo | Approval                                | Additional Approval Text | Certificate name |
|------|-----------------------------------------|--------------------------|------------------|
|      | cURus<br>Underwriters Laboratories Inc. | UL 1059                  | E45172           |



|                                |         |                 |
|--------------------------------|---------|-----------------|
| UR                             | UL 1977 | 20170428-E45171 |
| Underwriters Laboratories Inc. |         |                 |

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CAD data

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Product family

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Subject to changes.