

## Data sheet | Item number: 2092-1429

THT male header; 1.4 mm Ø solder pin; angled; Pin spacing 5 mm; 9-pole;  
light gray



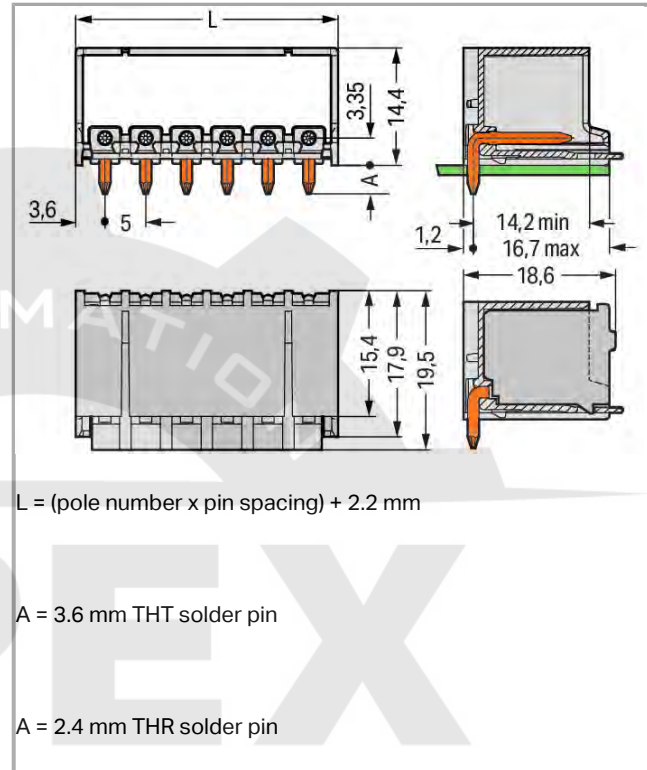
2092-1429



RoHS  
Compliant

BOMcheck.net

Color:



$L = (\text{pole number} \times \text{pin spacing}) + 2.2 \text{ mm}$

A = 3.6 mm THT solder pin

A = 2.4 mm THR solder pin

### 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 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** 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 |

### Connection data

|                            |   |
|----------------------------|---|
| Total number of potentials | 9 |
| Number of connection types | 1 |
| Number of levels           | 1 |
| No. of poles               | 9 |

### Geometrical Data

|                                   |                               |
|-----------------------------------|-------------------------------|
| Pin spacing                       | 5 mm / 0.197 inch             |
| Width                             | 47.2 mm / 1.858 inch          |
| Height                            | 18 mm / 0.709 inch            |
| Height from the surface           | 14.4 mm / 0.567 inch          |
| Depth                             | 19.5 mm / 0.768 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) | Male connector/plug |
| Connector connection type          | for PCBs            |
| Mismating protection               | No                  |
| Mating direction to the PCB        | 0°                  |
| 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                   | 0.098 MJ                               |
| Weight                      | 5.33 g                                 |

## Environmental Requirements

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

## Commercial data

|                    |               |
|--------------------|---------------|
| Product Group      | 26 (picoMAX)  |
| Country of origin  | DE            |
| GTIN               | 4050821869412 |
| Customs Tariff No. | 85366990990   |

## Approvals / Certificates

### Radio-Approvals

| Logo                                                                               | Approval                                     | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|----------------------------------------------|--------------------------|------------------|
|                                                                                    | <b>CB</b><br>DEKRA Certification B.V.        | IEC 61984                | NL-49737         |
|  | <b>CSA</b><br>DEKRA Certification B.V.       | C22.2                    | 2362521          |
|  | <b>KEMA/KEUR</b><br>DEKRA Certification B.V. | IEC 61984                | 71-<br>102261    |

### Country specific Approvals

| Logo | Approval                               | Additional Approval Text | Certificate name |
|------|----------------------------------------|--------------------------|------------------|
|      | <b>CB</b><br>DEKRA Certification B.V.  | IEC 61984                | NL-49737         |
|      | <b>CSA</b><br>DEKRA Certification B.V. | C22.2                    | 2362521          |



KEMA/KEUR  
 DEKRA Certification B.V.

IEC 61984

71-  
 102261

#### Other Approvals

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

#### UL-Approvals

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

#### Downloads

##### Documentation

##### Additional Information

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

Product family

picoMAX

Show all products from the family



Subject to changes.

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