

## Data sheet | Item number: 2091-1708

Solder pin strip; 1.0 mm Ø solder pin; straight; Pin spacing 3.5 mm; 8-pole;  
black

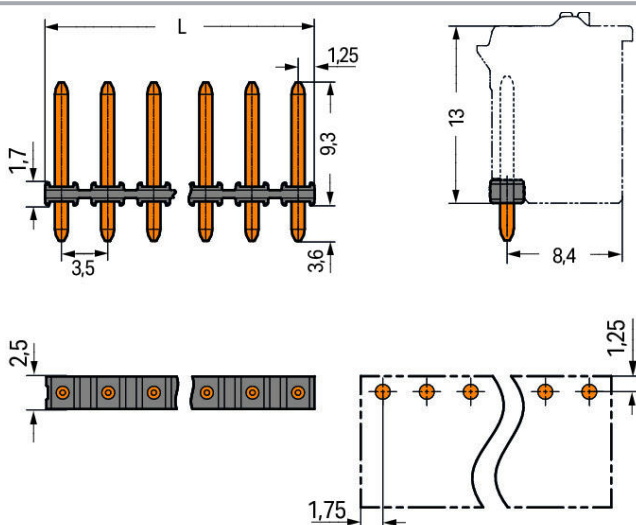
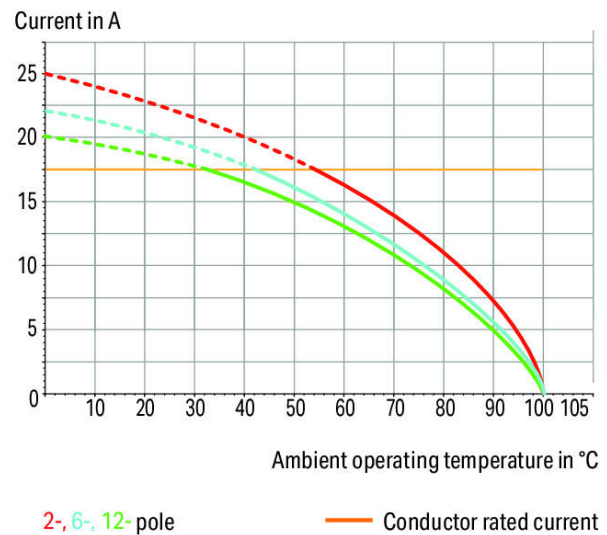
[www.wago.com/2091-1708](http://www.wago.com/2091-1708)



 Picture differs from the item.

Color: 

**Derating Curve**  
1-conductor female connector (2091-1122) with  
THT-solder pin strip (2091-1702)  
Pin spacing: 3.5 mm / Conductor cross-section: 1.5 mm<sup>2</sup> "f-st"  
Based on: EN 60512-5-2 / Reduction factor: 0.8



$L = (\text{pole no.} - 1) \times \text{pin spacing} + 2.5 \text{ mm}$

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

WAGO Corporation  
Germantown, WI 53022  
Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222  
Email: [info.us@wago.com](mailto:info.us@wago.com) | Web: [www.wago.us](http://www.wago.us)

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## Item description

- Lötstiftleisten mit geraden und abgewinkelten Lötstiften für rechtwinklige und parallele Steckrichtung zur Leiterplatte
- Polverlustfreies Aneinanderreihen von mehreren Federleisten in einer Lötstiftleiste zur Trennung von Funktionen möglich

## 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

### IEC Approvals

| Ratings per                 | IEC/EN 60664-1                                                       |
|-----------------------------|----------------------------------------------------------------------|
| Rated 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) $\triangleq$ Overvoltage category III / Pollution degree 2 |

### Connection data

|                            |   |
|----------------------------|---|
| Pole No.                   | 8 |
| Number of connection types | 1 |
| Number of levels           | 1 |

### Physical data

|                         |                      |
|-------------------------|----------------------|
| Pin spacing             | 3.5 mm / 0.138 inch  |
| Width                   | 29.5 mm / 1.161 inch |
| Height                  | 12.9 mm / 0.508 inch |
| Height from the surface | 9.3 mm / 0.366 inch  |
| Depth                   | 2.5 mm / 0.098 inch  |
| Solder pin length       | 3.6 mm               |

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|                                      |               |
|--------------------------------------|---------------|
| Solder pin diameter                  | 1 mm          |
| Drilled hole diameter with tolerance | 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      | Without             |

### PCB contact

|             |     |
|-------------|-----|
| PCB Contact | THT |
|-------------|-----|

### Material data

|                             |                                        |
|-----------------------------|----------------------------------------|
| Color                       | black                                  |
| Material group              | I                                      |
| Insulation material         | Polyphthalamide (PPA GF)               |
| Flammability class per UL94 | V0                                     |
| Contact material            | Electrolytic copper (E <sub>Cu</sub> ) |
| Contact plating             | tin-plated                             |
| Weight                      | 0.8 g                                  |

### Environmental requirements

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

### Commercial data

|                       |               |
|-----------------------|---------------|
| Packaging type        | bag           |
| Country of origin     | CN            |
| GTIN                  | 4055143934787 |
| Customs tariff number | 8536904000    |

### Approvals / Certificates

#### Country specific Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|------|----------|--------------------------|------------------|
|      | CB       | IEC 61984                | NL-49736         |

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|                                                                                  |                          |          |         |
|----------------------------------------------------------------------------------|--------------------------|----------|---------|
| DEKRA Certification B.V.                                                         |                          |          | /A1     |
|  | CSA                      | C22.2    | 2362521 |
|                                                                                  | DEKRA Certification B.V. |          |         |
| KEMA/KEUR                                                                        |                          | EN 61984 | 71-     |
|  | DEKRA Certification B.V. |          | 102260  |
|                                                                                  |                          |          | REV.1   |

## UL-Approvals

| Logo | Approval                       | Additional Approval Text | Certificate name |
|------|--------------------------------|--------------------------|------------------|
|      | UL                             | UL 1059                  | E45172-          |
|      | Underwriters Laboratories Inc. |                          | 20100415         |
|      | UL                             | UL 1977                  | 20190909-        |
|      | Underwriters Laboratories Inc. |                          | E45171           |

## Counterpart



Item no.2091-1128

1-conductor female connector; push-button; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 8-pole; 1,50 mm<sup>2</sup>; light gray[www.wago.com/2091-1128](http://www.wago.com/2091-1128)

## Downloads

## Documentation

## Additional Information

|                        |             |               |          |
|------------------------|-------------|---------------|----------|
| Technical explanations | Apr 3, 2019 | pdf<br>2.0 MB | Download |
|------------------------|-------------|---------------|----------|

## CAD files

## CAD data

|                        |     |          |
|------------------------|-----|----------|
| 2D/3D Models 2091-1708 | URL | Download |
|------------------------|-----|----------|

## CAE data

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ZUKEN Portal 2091-1708

[URL](#) [Download](#)

Environmental Product Compliance

Compliance Search

|                                                                                    |                     |                          |
|------------------------------------------------------------------------------------|---------------------|--------------------------|
| Environmental Product Compliance 2091-1708                                         | <a href="#">URL</a> | <a href="#">Download</a> |
| Solder pin strip; 1.0 mm Ø solder pin; straight; Pin spacing 3.5 mm; 8-pole; black |                     |                          |

Installation Notes

Product family

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

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