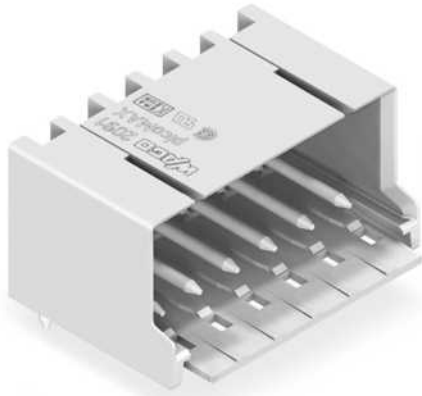


## Data sheet | Item number: 2091-1427

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

[www.wago.com/2091-1427](http://www.wago.com/2091-1427)



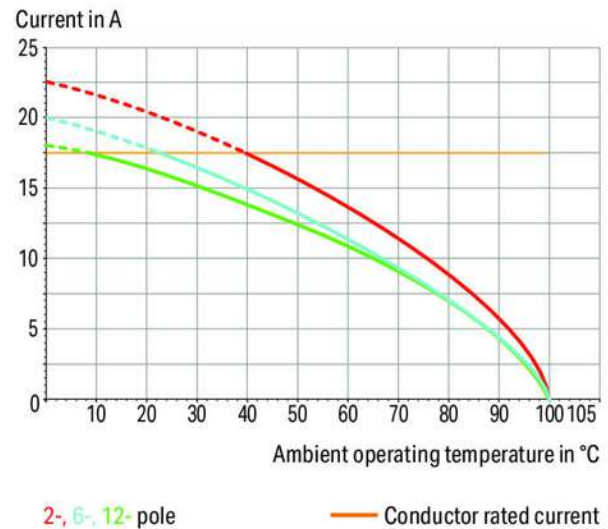
 Picture differs from the item.

RoHS  
Compliant



Color: 

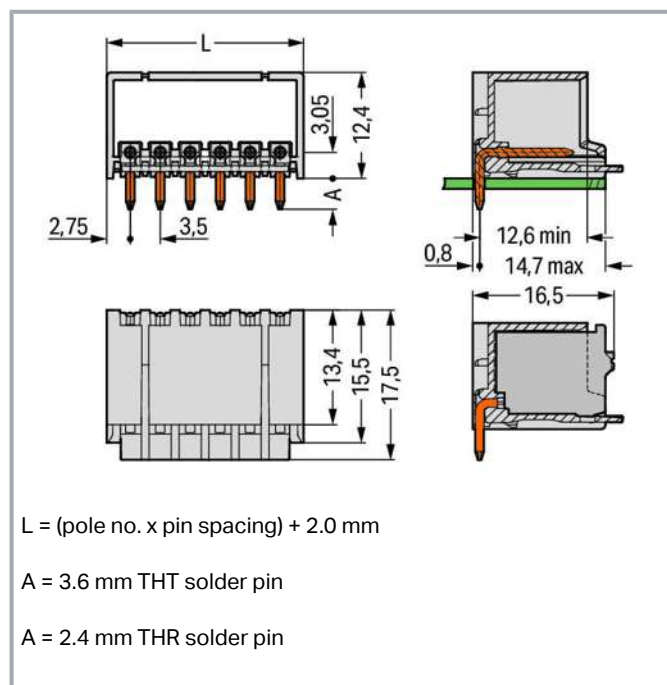
**Derating Curve**  
1-conductor female connector (2091-1122) with  
THT male header (2091-1402)  
Pin spacing: 3.5 mm / Conductor cross-section: 1.5 mm<sup>2</sup> "f-st"  
Based on: EN 60512-5-2 / Reduction factor: 0.8



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

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## 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** 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

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Nominal voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV
Rated current	10 A
Legend (ratings)	(III / 2) $\triangle$ Overvoltage category III / Pollution degree 2

## UL Approvals

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

## CSA Approvals

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

## Connection data

Pole No.	7
Total number of potentials	3
Number of connection types	1
Number of levels	1

## Physical data

Pin spacing	3.5 mm / 0.138 inch
Width	26.5 mm / 1.043 inch
Height	16 mm / 0.63 inch
Height from the surface	12.4 mm / 0.488 inch
Depth	17.5 mm / 0.689 inch
Solder pin length	3.6 mm
Solder pin diameter	1 mm
Drilled hole diameter with tolerance	1.2 <sup>(+0.1)</sup> mm

## Plug-in connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for PCB
Mismating protection	No
Mating direction to the PCB	0°

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Locking of plug-in connection

Locking latch

**PCB contact**

PCB Contact

THT

**Material data**

Color	light gray
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	2.5 g



**Environmental requirements**

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

**Commercial data**

Packaging type	BOX
Country of origin	DE
GTIN	4055143428293
Customs tariff number	8536694040

**Approvals / Certificates****Country specific Approvals**


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

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## UL-Approvals

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

## Counterpart

	<b>Item no.2091-1107</b> 1-conductor female plug; Gripping plate; 1.5 mm <sup>2</sup> ; Pin spacing 3.5 mm; 7-pole; 1,50 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/2091-1107">www.wago.com/2091-1107</a>
	<b>Item no.2091-1127</b> 1-conductor female plug; 1.5 mm <sup>2</sup> ; Pin spacing 3.5 mm; 7-pole; 1,50 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/2091-1127">www.wago.com/2091-1127</a>
	<b>Item no.2091-1107/002-000</b> 1-conductor female plug; Gripping plate sliding connector release; 1.5 mm <sup>2</sup> ; Pin spacing 3.5 mm; 7-pole; 1,50 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/2091-1107/002-000">www.wago.com/2091-1107/002-000</a>

## Downloads

## Documentation

## Additional Information

Technical explanations	2019 Apr 3	pdf 2.0 MB	Download
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## CAD files

## PCB Design

Symbol and Footprint 2091-1427

URL

Download

CAX data for your PCB design, consisting of "schematic symbols and PCB footprints", allow easy integration of the WAGO component into your development environment.

## Supported formats:

- Accel EDA 14 & 15
- Altium 6 to current version
- Cadence Allegro
- DesignSpark
- Eagle Libraries

—  
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- KiCad
- Mentor Graphics BoardStation
- Mentor Graphics Design Architect
- Mentor Graphics Design Expedition 99 and 2000
- OrCAD 9.X PCB and Capture
- PADS PowerPCB 3, 3.5, 4.X, and 5.X
- PADS PowerPCB and PowerLogic 3.0
- PCAD 2000, 2001, 2002, 2004, and 2006
- Pulsonix 8.5 or newer
- STL
- 3D STEP
- TARGET 3001!
- View Logic ViewDraw
- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000

PCB Component Libraries (EDA), PCB CAD Library Ultra Librarian

#### CAD data

	URL	Download
2D/3D Models 2091-1427		

#### CAE data

	URL	Download
ZUKEN Portal 2091-1427		

## Environmental Product Compliance

#### Compliance Search

	URL	Download
Environmental Product Compliance 2091-1427		

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

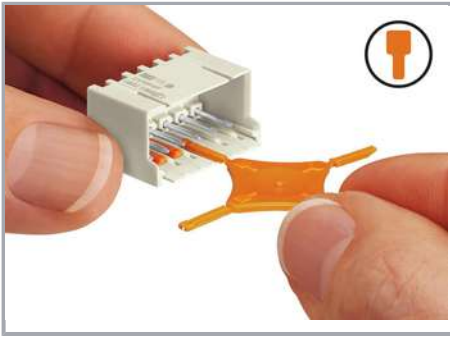
## Installation Notes

#### Coding

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

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

## Product family

*picoMAX*<sup>®</sup> 3.5

[Show all products from the family](#)

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