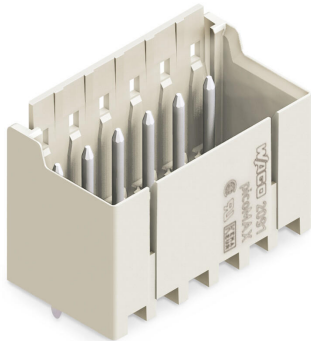


## Data sheet | Item number: 2091-1407

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



[www.wago.com/2091-1407](http://www.wago.com/2091-1407)

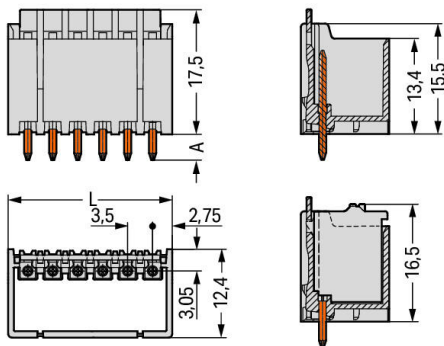
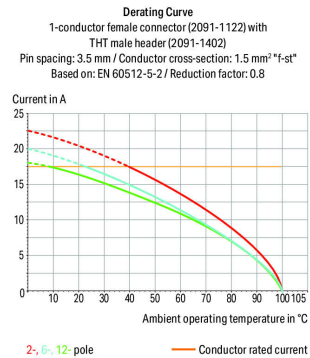


 Picture differs from the item.

RoHS  Compliant



Color: 



$L = (\text{pole no.} \times \text{pin spacing}) + 2.0 \text{ mm}$

A = 3.6 mm THT solder pin

A = 2.4 mm THR solder pin

### 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	3
Number of connection types	1

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



Number of levels	1
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### Physical data

Pin spacing	3.5 mm / 0.138 inch
Width	26.5 mm / 1.043 inch
Height	21.1 mm / 0.831 inch
Height from the surface	17.5 mm / 0.689 inch
Depth	12.4 mm / 0.488 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	90°
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
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## Commercial data



Packaging type	BOX
Country of origin	DE
GTIN	4055143428613
Customs tariff number	85366990990

## 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

### UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>UL</b> Underwriters Laboratories Inc.	UL 1977	20190909-E45171
	<b>UR</b> Underwriters Laboratories Inc.	UL 1059	E45172-20100415

## Counterpart



Item no.2091-1127

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[www.wago.com/2091-1127](http://www.wago.com/2091-1127)

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

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**Item no.2091-1107**

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

[www.wago.com/2091-1107](http://www.wago.com/2091-1107)



**Item no.2091-1107/002-000**

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

[www.wago.com/2091-1107/002-000](http://www.wago.com/2091-1107/002-000)

**Downloads**

**Documentation**

**Additional Information**

Technical explanations	3. 4. 2019	pdf 2.0 MB	Download
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**CAD/CAE-Data**

**PCB Design**

Symbol and Footprint 2091-1407	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
- 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

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

- 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

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#### CAD data

2D/3D Models 2091-1407	<a href="#">URL</a>	<a href="#">Download</a>
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#### CAE data

ZUKEN Portal 2091-1407	<a href="#">URL</a>	<a href="#">Download</a>
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### Environmental Product Compliance

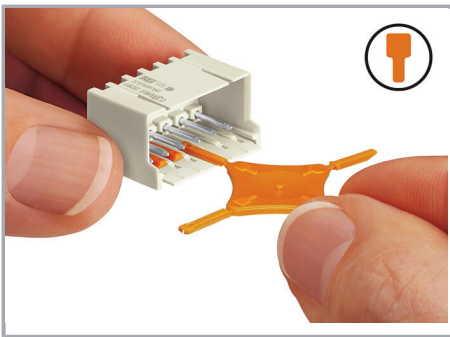
#### Compliance Search

Environmental Product Compliance 2091-1407	<a href="#">URL</a>	<a href="#">Download</a>
THT male header; 1.0 mm Ø solder pin; straight; Pin spacing 3.5 mm; 7-pole; light gray		

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### Installation Notes

#### Coding



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

### Product family

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



*WAGO* picoMAX<sup>®</sup> 3.5

Show all products from the family

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

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