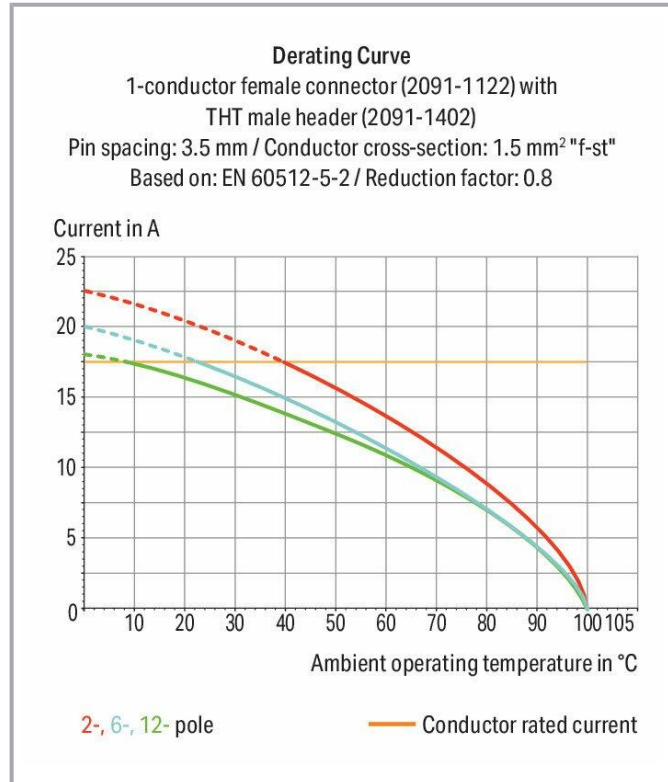
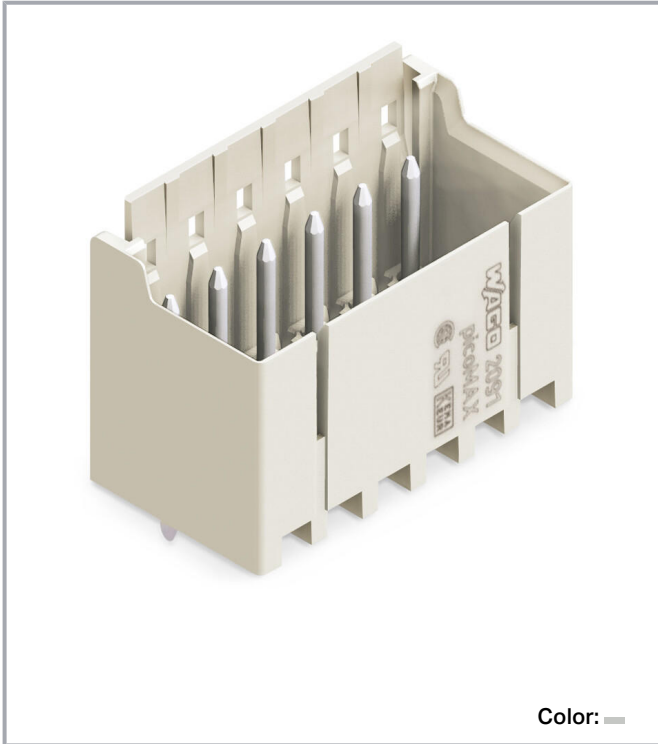


**Data sheet | Item number: 2091-1406**

THT male header; 1.0 mm Ø solder pin; straight; Pin spacing 3.5 mm; 6-pole;  
light gray



[www.wago.com/2091-1406](http://www.wago.com/2091-1406)



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

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Dimensions in mm

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

A = 3.6 mm THT solder pin

A = 2.4 mm THR solder pin

### Item description

- 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

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



## Data Notes

### 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.

## 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) $\hat{=}$ 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

## Connection data

Total number of potentials	6
Number of connection types	1
Number of levels	1

### Connection 1

Pole No.	6
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Subject to changes. Please also observe the further product documentation!



## Physical data

Pin spacing	3.5 mm / 0.138 inch
Width	23 mm / 0.906 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
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## 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
Fire load	0.044 MJ
Weight	2.1 g

## Environmental requirements

Limit temperature range	-60 ... +100 °C
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## Commercial data




Product Group	26 (picoMAX)
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Subject to changes. Please also observe the further product documentation!


PU (SPU)	100 Stück
Packaging type	box
Country of origin	DE
GTIN	4050821161035
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>CSA</b> DEKRA Certification B.V.	C22.2 No. 158	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

## Counterpart

	<b>Item no.2091-1126</b> 1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm <sup>2</sup> ; Pin spacing 3.5 mm; 6-pole; 1,50 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/2091-1126">www.wago.com/2091-1126</a>
	<b>Item no.2091-1106</b> 1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm <sup>2</sup> ; Pin spacing 3.5 mm; 6-pole; Gripping plate; 1,50 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/2091-1106">www.wago.com/2091-1106</a>

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




	<b>Item no.2091-1106/000-1000</b> 1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 6-pole; Gripping plate; direct marking; 1,50 mm²; light gray	<a href="http://www.wago.com/2091-1106/000-1000">www.wago.com/2091-1106/000-1000</a>
	<b>Item no.2091-1106/002-000</b> 1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 6-pole; Gripping plate sliding connector release; 1,50 mm²; light gray	<a href="http://www.wago.com/2091-1106/002-000">www.wago.com/2091-1106/002-000</a>
	<b>Item no.2091-1106/000-5000</b> 1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 6-pole; Gripping plate; direct marking; 1,50 mm²; light gray	<a href="http://www.wago.com/2091-1106/000-5000">www.wago.com/2091-1106/000-5000</a>
	<b>Item no.2091-1106/002-1000</b> 1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 6-pole; Gripping plate sliding connector release; direct marking; 1,50 mm²; light gray	<a href="http://www.wago.com/2091-1106/002-1000">www.wago.com/2091-1106/002-1000</a>

### Optional accessories

#### Coding

Coding

	<b>Item no.: 2091-1610</b> Coding key carrier; suitable for 3.5 mm pin spacing; orange	<a href="http://www.wago.com/2091-1610">www.wago.com/2091-1610</a>
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### Downloads

#### Documentation

##### Additional Information

Technical explanations	2019 Apr 3	pdf 2.0 MB	Download
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### CAD/CAE-Data

#### CAD data

2D/3D Models 2091-1406	URL	Download
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#### PCB Design

Symbol and Footprint 2091-1406	URL	Download
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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

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



- 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
- 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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#### CAE data

ZUKEN Portal 2091-1406	<a href="#">URL</a>	<a href="#">Download</a>
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### Environmental Product Compliance

#### Compliance Search

Environmental Product Compliance 2091-1406	<a href="#">URL</a>	<a href="#">Download</a>
THT male header; 1.0 mm Ø solder pin; straight; Pin spacing 3.5 mm; 6-pole; light gray		

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### Installation Notes

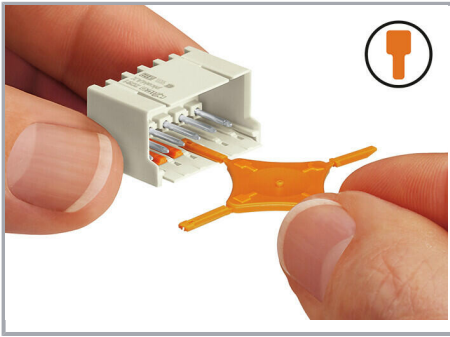
#### Coding

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

### Product family

*<i>picoMAX</i><sup>®</sup> 3.5*

[Show all products from the family](#)

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