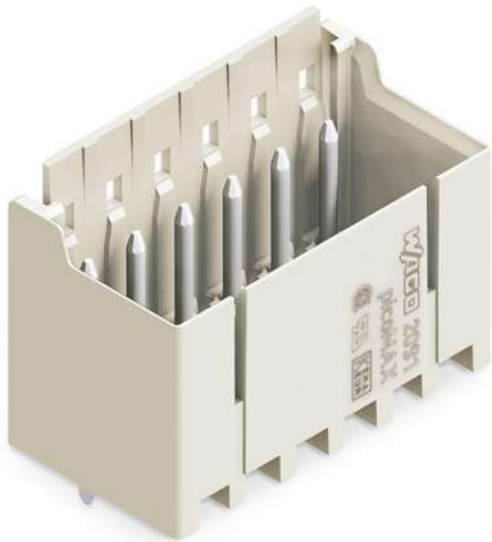


Data sheet | Item number: 2091-1407

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

www.wago.com/2091-1407

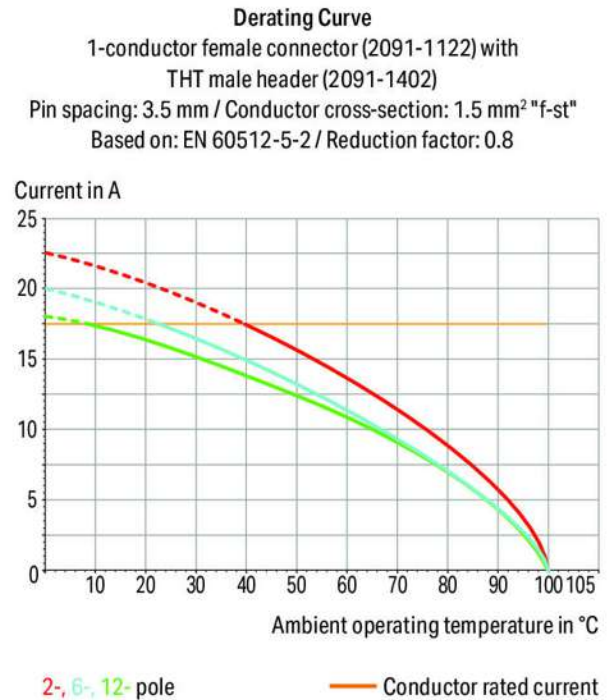


 Picture differs from the item.

RoHS 
Compliant

[BOMcheck.net](https://www.bomcheck.net)

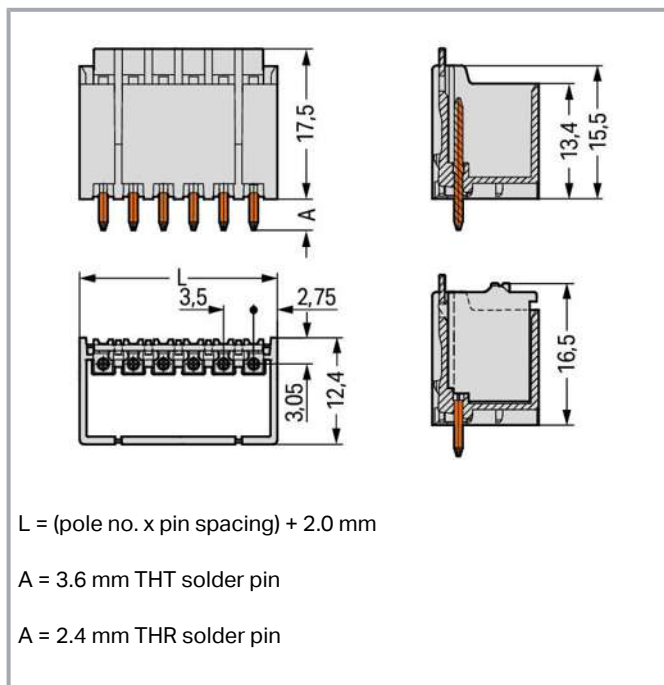
Color: 



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
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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	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 ^(+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°

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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 _{Cu})
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	8536694040

Approvals / Certificates**Country specific Approvals**

Logo	Approval	Additional Approval Text	Certificate name
	CB DEKRA Certification B.V.	IEC 61984	NL-49736 /A1
	CSA DEKRA Certification B.V.	C22.2	2362521
	KEMA/KEUR 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
	UR Underwriters Laboratories Inc.	UL 1059	E45172-20100415

Counterpart

	Item no.2091-1127 1-conductor female plug; 1.5 mm ² ; Pin spacing 3.5 mm; 7-pole; 1,50 mm ² ; light gray	www.wago.com/2091-1127
	Item no.2091-1107 1-conductor female plug; Gripping plate; 1.5 mm ² ; Pin spacing 3.5 mm; 7-pole; 1,50 mm ² ; light gray	www.wago.com/2091-1107
	Item no.2091-1107/002-000 1-conductor female plug; Gripping plate sliding connector release; 1.5 mm ² ; Pin spacing 3.5 mm; 7-pole; 1,50 mm ² ; light gray	www.wago.com/2091-1107/002-000

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 2091-1407	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

—
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- 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
- 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 2091-1407		

CAE data

	URL	Download
ZUKEN Portal 2091-1407		

Environmental Product Compliance

Compliance Search

	URL	Download
Environmental Product Compliance 2091-1407		
THT male header; 1.0 mm Ø solder pin; straight; Pin spacing 3.5 mm; 7-pole; light gray		

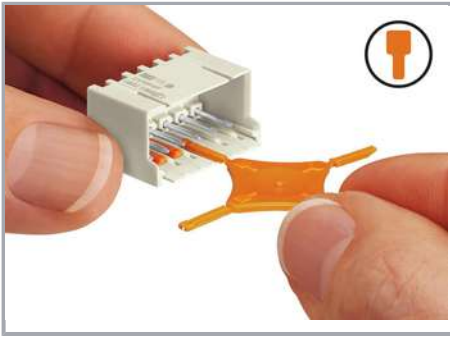
Installation Notes

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[®] 3.5

[Show all products from the family](#)

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