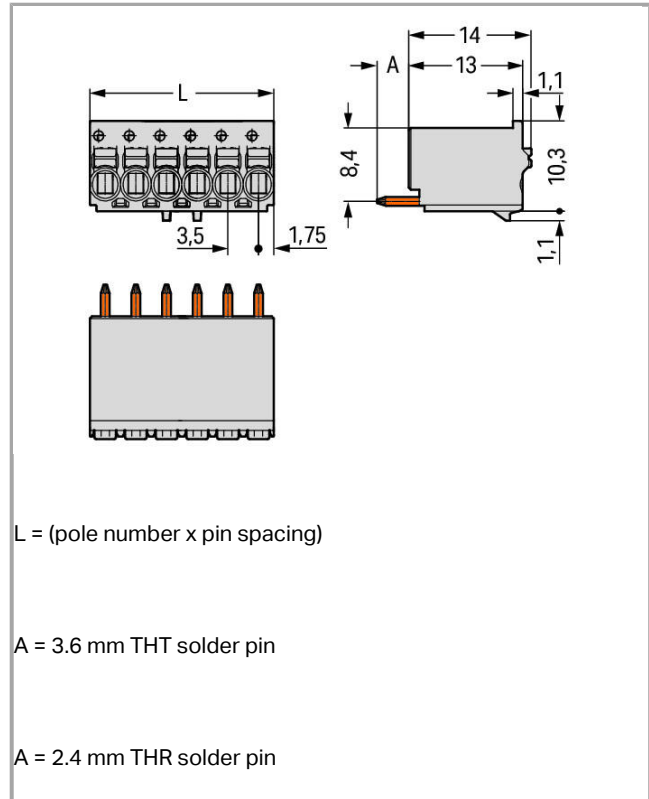
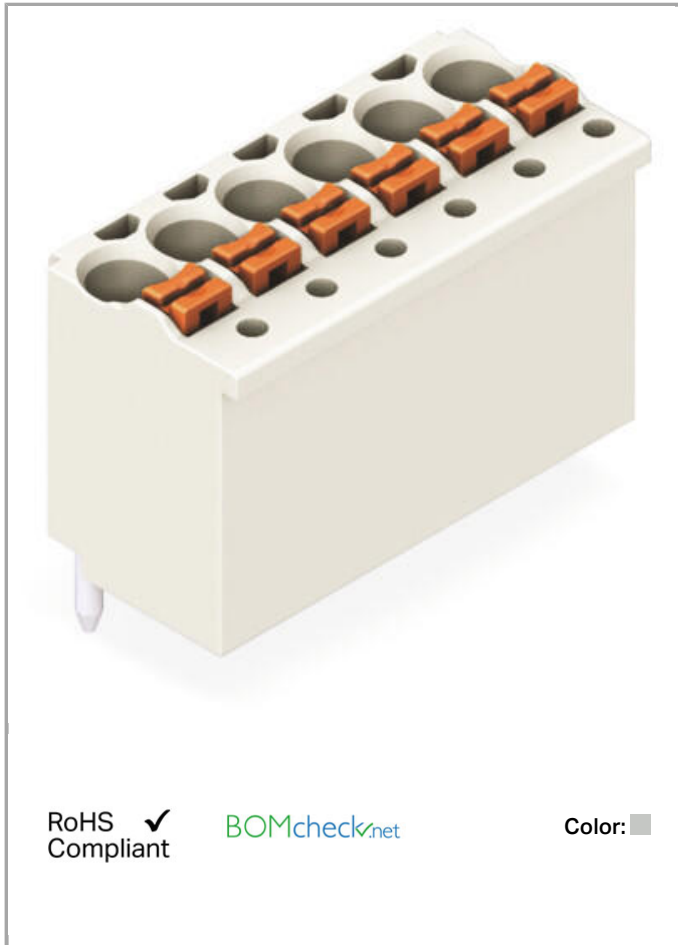


Data sheet | Item number: 2091-1178

1-conductor THT female header; 1.0 mm Ø solder pin; straight; 1.5 mm²; Pin spacing 3.5 mm; 8-pole



2091-1178



Item description

- Universal connection for all conductor types
- Simple, push-in termination of solid and ferruled conductors
- Easy-to-use design does not require special tools
- Ability to wire while mated or unmated
- Integrated test ports for testing parallel to conductor entry
- Custom-installed solder pins

Safety information 1:

The **picoMAX[®] pluggable connection system** is designed without breaking capacity for compliance with DIN EN 61984. When used as intended, MCS Connectors shall 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 60664-1

Rated voltage (III / 3)	160 V
Rated impulse voltage (III / 3)	2.5 kV
Rated voltage (III / 2)	160 V
Rated impulse voltage (III / 2)	2.5 kV
Rated voltage (II / 2)	320 V
Rated impulse voltage (II / 2)	2.5 kV
Rated current	10 A

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

Connection technology	Push-in CAGE CLAMP®
Actuation type	Push-button
Solid conductor	0.2 ... 1.5 mm² / 24 ... 14 AWG
Fine-stranded conductor	0.2 ... 1.5 mm² / 24 ... 14 AWG
Fine-stranded conductor with ferrule with plastic collar	0.25 ... 0.75 mm²
Fine-stranded conductor with ferrule without plastic collar	0.25 ... 1.5 mm²
Strip length	8 ... 9 mm / 0.31 ... 0.35 inch
Conductor entry angle to the PCB	90°
No. of poles	8
Total number of connection points	8
Total number of potentials	8
Number of connection types	1
Number of levels	1

Geometrical Data

Pin spacing	3.5 mm / 0.138 inch
Width	28 mm / 1.102 inch
Height	14 mm / 0.551 inch
Depth	11.4 mm / 0.449 inch
Solder pin length	3.6 mm
Solder pin diameter	1 mm



Drilled hole diameter (tolerance)	1.2 ^(- ... +0.1) mm
-----------------------------------	--------------------------------

Plug connection

Contact type (pluggable connector)	Female connector/socket
Connector connection type	for PCBs
Mismating protection	No
Mating direction to the PCB	90°

PCB contact

PCB contact	THT
-------------	-----

Material Data

Color	light gray
Material group	I
Insulating material	Polyphthalamide (PPA GF)
Flammability class per UL94	V0
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Electrolytic copper (E _{Cu})
Contact plating	tin-plated
Fire load	0.088 MJ
Weight	4.326 g

Environmental Requirements

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

Commercial data

Product Group	26 (picoMAX)
Country of origin	DE
GTIN	4050821162452
Customs Tariff No.	85366990990

Approvals / Certificates

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CB DEKRA Certification B.V.	IEC 61984	NL-49736
	CSA DEKRA Certification B.V.	C22.2	2362521



CSA
DEKRA Certification B.V.

C22.2

2362521



KEMA/KEUR
DEKRA Certification B.V.

EN 61984

71-
102260

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UR Underwriters Laboratories Inc.	UL 1059	E45172
	UR Underwriters Laboratories Inc.	UL 1977	20170428- E45171
	UR Underwriters Laboratories Inc.	UL 1059	E45172

Compatible products

tools



Item no.: 210-719
Operating tool with partially insulated shaft; Type 1, blade (2.5 x 0.4) mm

210-719

Coding



Item no.: 2091-1610
Coding key carrier; suitable for 3.5 mm pin spacing

2091-1610

check



Item no.: 735-500
Test pin; 1 mm Ø; with solder connection for test wire

735-500

Downloads

Documentation



Additional Information

pdf
3.6 MB

Download

CAD/CAE - Smart Data

CAD data

3D Download 2091-1178

URL

Download

Product family

picoMAX eCOM
Show all products from the family

Subject to changes.