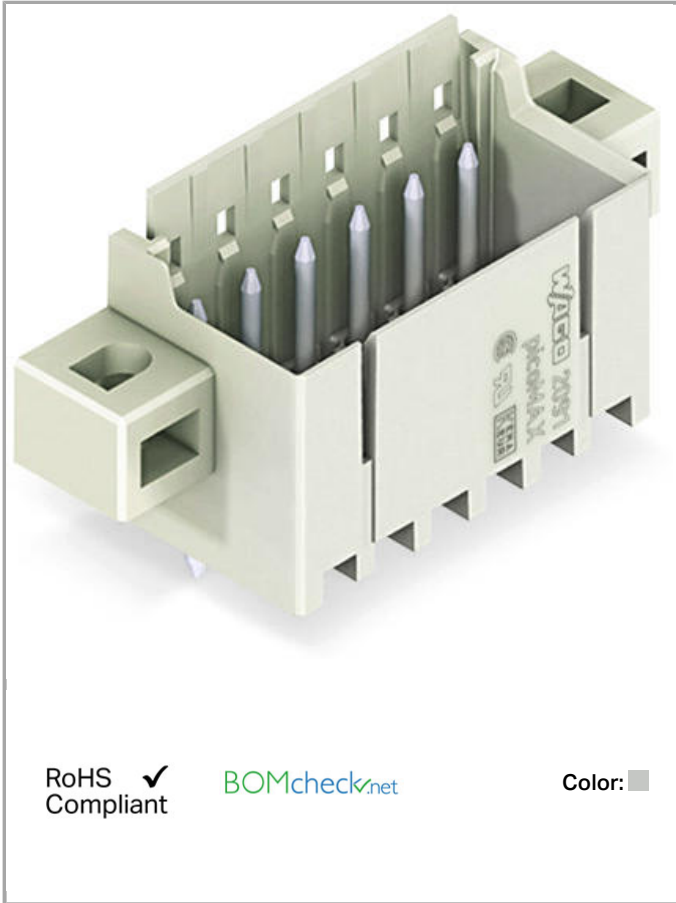


## Data sheet | Item number: 2091-1404/205-000

THR male header; 1.0 mm Ø solder pin; straight; clamping collar; Pin spacing 3.5 mm; 4-pole

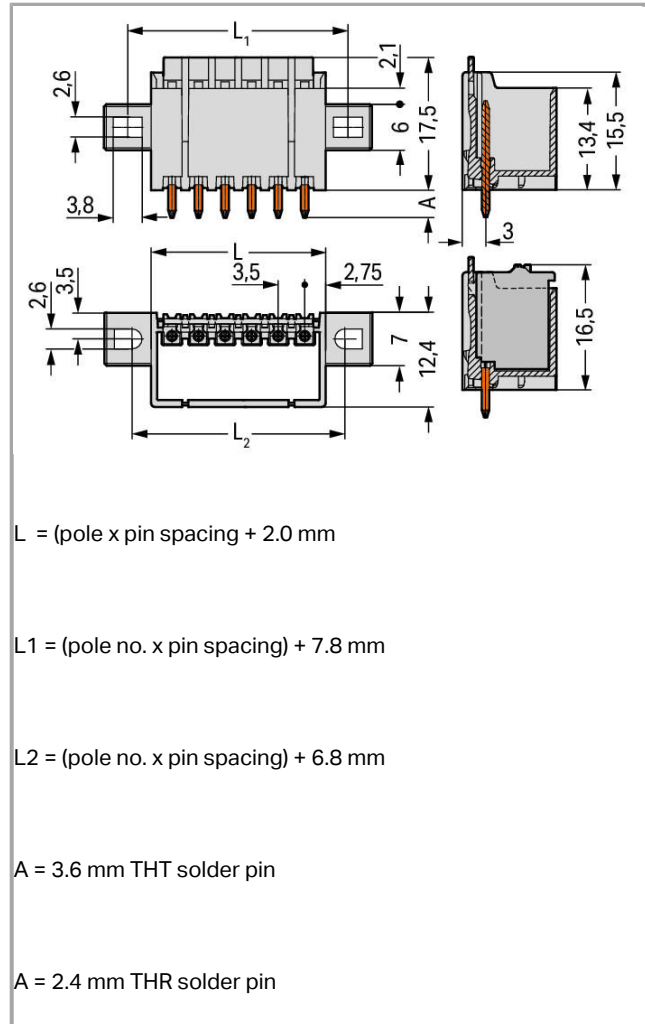


2091-1404/205-000



RoHS Compliant

Color:



$L = (\text{pole} \times \text{pin spacing} + 2.0 \text{ mm})$

$L1 = (\text{pole no.} \times \text{pin spacing}) + 7.8 \text{ mm}$

$L2 = (\text{pole no.} \times \text{pin spacing}) + 6.8 \text{ mm}$

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 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** 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

No. of poles	4
Total number of potentials	4
Number of connection types	1
Number of levels	1

### Geometrical Data

Pin spacing	3.5 mm / 0.138 inch
Width	31.5 mm / 1.24 inch
Height	19.9 mm / 0.783 inch
Height from the surface	17.5 mm / 0.689 inch
Depth	12.4 mm / 0.488 inch
Solder pin length	2.4 mm
Solder pin diameter	1 mm

### Mechanical data

Mounting type	Mounting flange
Type of mounting	Feed-through mounting Panel mounting

### Plug connection

Contact type (pluggable connector)	Male connector/plug
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Connector connection type	for PCBs
Mismating protection	No
Mating direction to the PCB	90°
Locking of plug-in connection	Male locking latch

## PCB contact

PCB contact	THR
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## Material Data

Color	light gray
Material group	I
Insulating material	Polyphthalamide (PPA GF)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E <sub>Cu</sub> )
Contact plating	tin-plated
Fire load	0.049 MJ
Weight	2 g

## Environmental Requirements



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

Country of origin	DE
GTIN	4050821396192
Customs Tariff No.	85366990990

## Approvals / Certificates

### UL-Approvals

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



Compatible products

Coding

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

Additional Information

	pdf 3.6 MB	Download
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CAD/CAE - Smart Data

CAD data

3D Download 2091-1404/205-000	URL	Download
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Product family

picoMAX  
Learn more about the product family.  
Show all products from the family

Subject to changes.