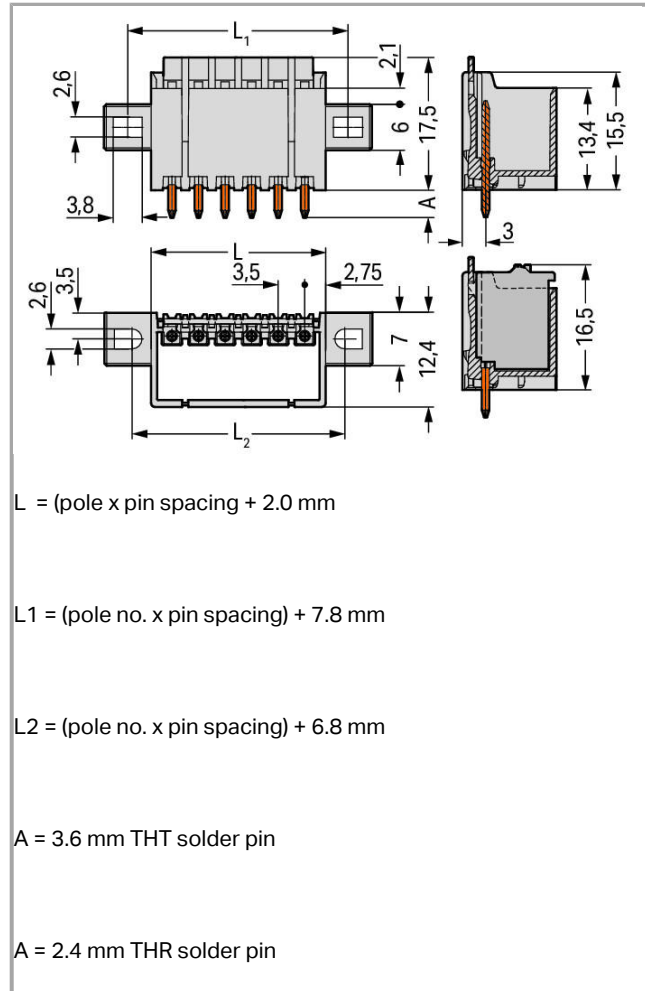


Data sheet | Item number: 2091-1408/205-000

THR male header; 1.0 mm Ø solder pin; straight; clamping collar; Pin spacing 3.5 mm; 8-pole; light gray



2091-1408_205-000



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

Connection data

Total number of potentials	8
Number of connection types	1
Number of levels	1
No. of poles	8

Geometrical Data

Pin spacing	3.5 mm / 0.138 inch
Width	42 mm / 1.654 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
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 _{Cu})
Contact plating	tin-plated
Fire load	0.072 MJ
Weight	3.12 g

Environmental Requirements

Limit temperature range	-60 +100 °C
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Commercial data

Country of origin	DE
GTIN	4050821412090
Customs Tariff No.	85366990990

Approvals / Certificates

Other Approvals

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

	UR Underwriters Laboratories Inc.	UL 1059	E45172
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UL-Approvals

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

Compatible products

Coding

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

Documentation

Additional Information

Technical explanations	Apr 3, 2019	pdf 3.6 MB	Download
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CAD/CAE - Smart Data

CAD data

3D Download 2091-1408/205-000	URL	Download
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Product family

picoMAX

Show all products from the family

Subject to changes.
