

Data sheet | Item number: 2091-1412/205-000

THR male header; 1.0 mm Ø solder pin; straight; clamping collar; Pin spacing 3.5 mm; 12-pole; light gray



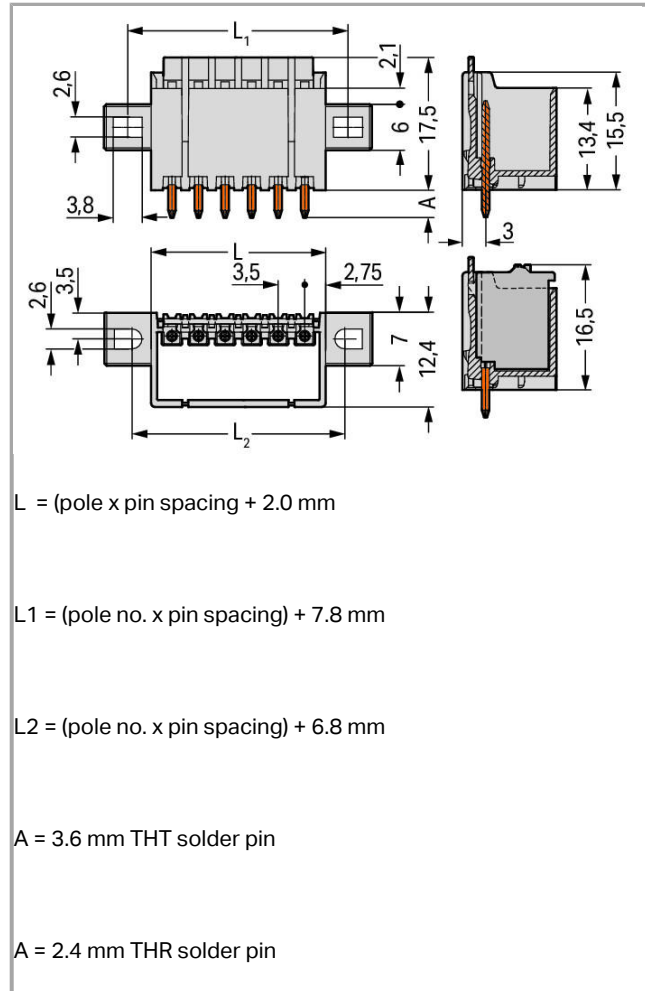
2091-1412_205-000



RoHS
Compliant

BOMcheck.net

Color: ■



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	12
Number of connection types	1
Number of levels	1
No. of poles	12

Geometrical Data

Pin spacing	3.5 mm / 0.138 inch
Width	44 mm / 1.732 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
-------------	-----

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	0.095 MJ
Weight	4.2 g

Environmental Requirements

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

Commercial data

Country of origin	DE
GTIN	4050821412113
Customs Tariff No.	85366990990

Approvals / Certificates

Other Approvals

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

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
------	----------	--------------------------	------------------



	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; orange		2091-1610

Downloads
Documentation

Additional Information			
Technical explanations	Apr 3, 2019	pdf 3.6 MB	Download

CAD/CAE - Smart Data

CAD data			
3D Download 2091-1412/205-000		URL	Download

Product family

picoMAX
Show all products from the family

Subject to changes.