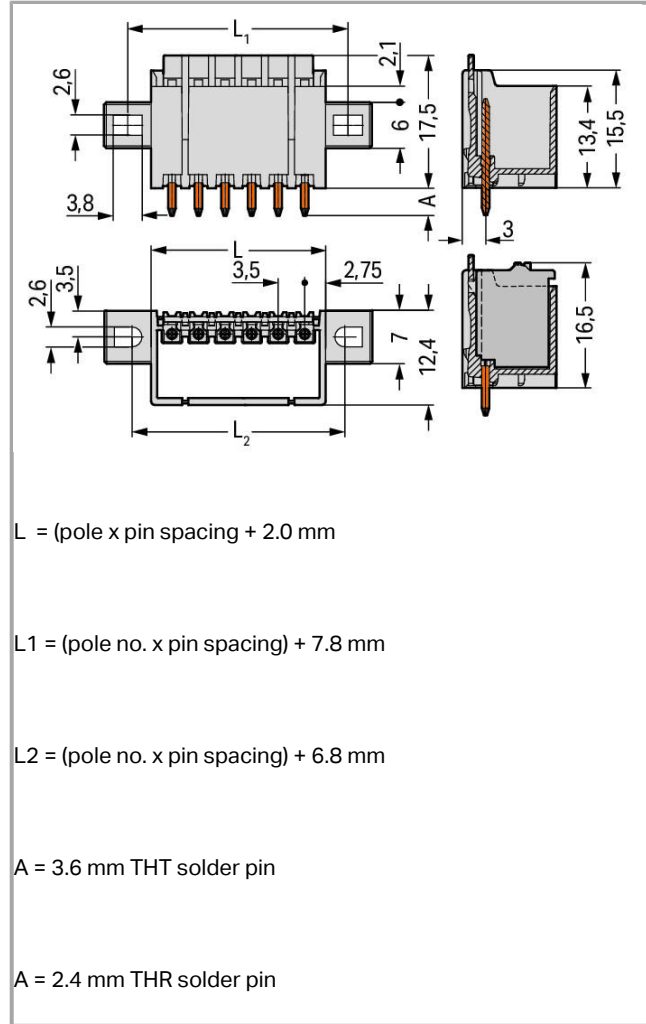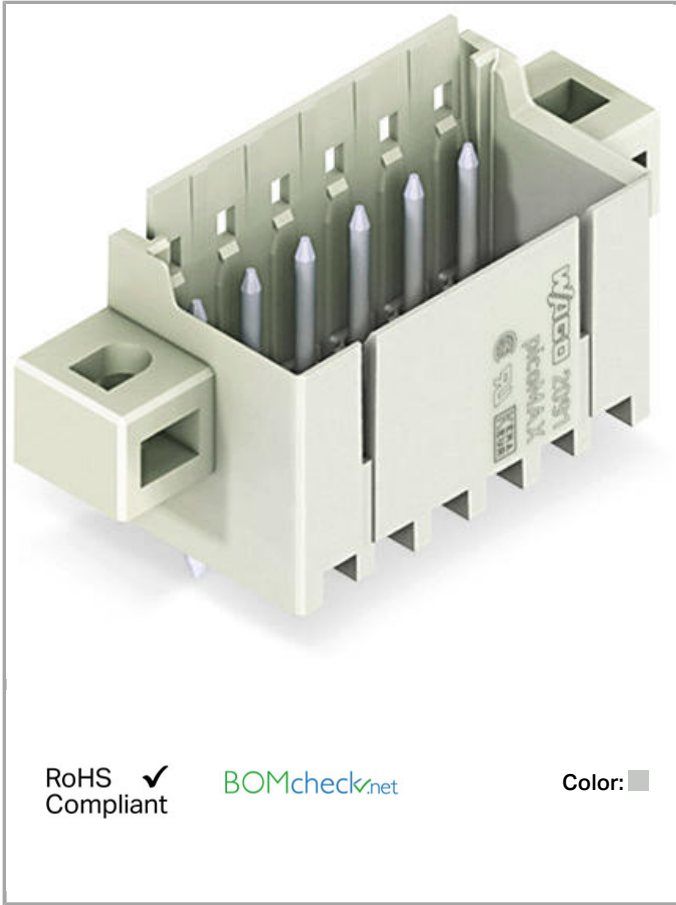# Data sheet | Item number: 2091-1402/005-000

THT male header; 1.0 mm Ø solder pin; straight; clamping collar; Pin spacing 3.5 mm; 2-pole

2091-1402/005-000

RoHS ✓ Compliant

BOMcheck.net

Color: ▢

L = (pole x pin spacing + 2.0 mm

L1 = (pole no. x pin spacing) + 7.8 mm

L2 = (pole no. x pin spacing) + 6.8 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	2
Total number of potentials	2
Number of connection types	1
Number of levels	1

Geometrical Data

Pin spacing	3.5 mm / 0.138 inch
Width	21 mm / 0.827 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 (tolerance)	$1.2^{(-\ldots\ +0.1)}$ mm

Mechanical data

Mounting type	Mounting flange
Type of 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	THT

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	0.037 MJ
Weight	1.44 g

Environmental Requirements

Limit temperature range	-60 … +100 °C

Commercial data

Product Group	26 (picoMAX)
Country of origin	DE
GTIN	4050821161431
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

	KEMA/KEUR	EN 61984	71-
	DEKRA Certification B.V.		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

Compatible products

Coding

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

Downloads
Documentation

Additional Information

		pdf 3.6 MB	Download

CAD/CAE - Smart Data

CAD data

3D Download 2091-1402/005-000	URL	Download

Product family

picoMAX
Learn more about the product family.

Show all products from the family