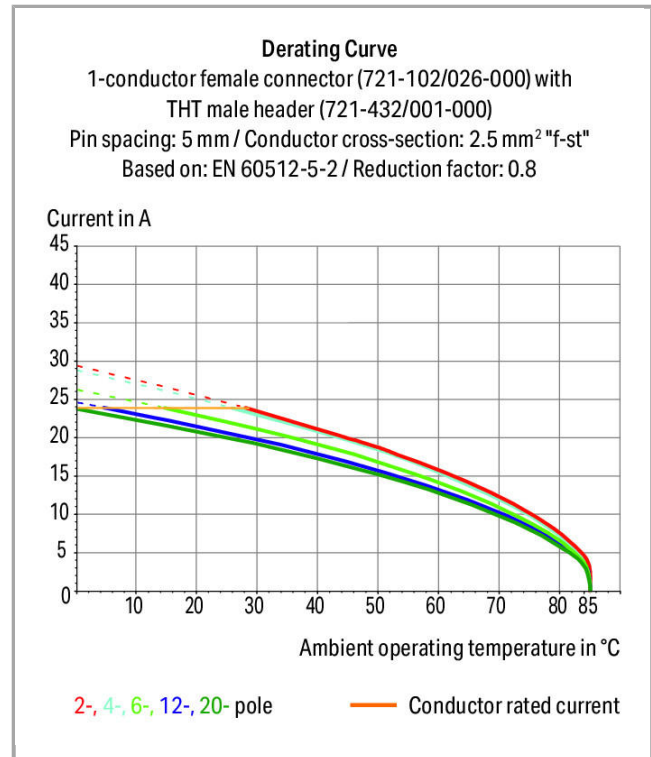
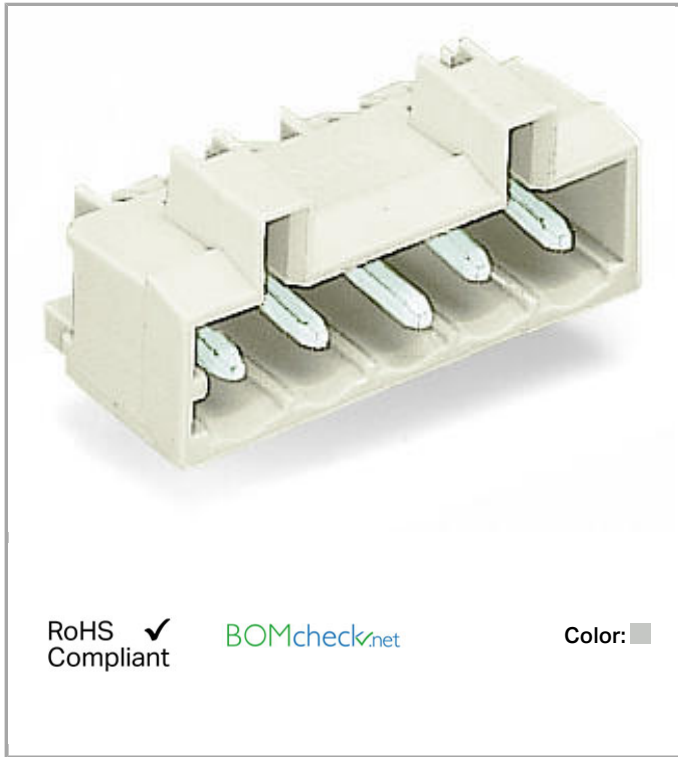


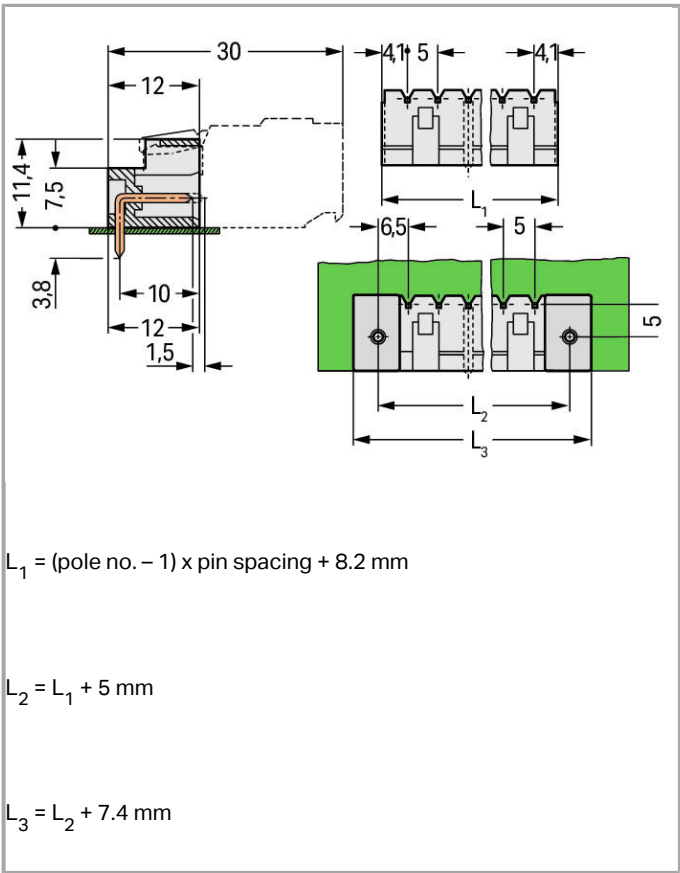
Data sheet | Item number: 721-450/001-000

THT male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against mismatching; Pin spacing 5 mm; 20-pole



721-450/001-000





Item description

- Horizontal or vertical PCB mounting via straight or angled solder pins
- Pin cross-section: 1 x 1 mm
- 100 % protected against mismating
- With coding fingers

Safety information 1:

The *MULTI CONNECTION SYSTEM (MCS)* 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)	320 V
Rated impulse voltage (III / 3)	4 kV
Rated voltage (III / 2)	320 V
Rated impulse voltage (III / 2)	4 kV

Rated voltage (II / 2)	630 V
Rated impulse voltage (II / 2)	4 kV
Rated current	12 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

Approvals per UL 1977

Rated voltage per UL 1977 (factory wiring only)	600 V
Rated current per UL 1977 (factory wiring only)	10 A

Approvals per CSA

Rated voltage CSA (Use Group B)	300 V
Rated current CSA (Use Group B)	10 A
Rated voltage CSA (Use Group D)	300 V
Rated current CSA (Use Group D)	10 A

Connection data

No. of poles	20
Total number of potentials	20
Number of connection types	1
Number of levels	1

Geometrical Data

Pin spacing	5 mm / 0.197 inch
Width	103.2 mm / 4.063 inch
Height	15.2 mm / 0.598 inch
Height from the surface	11.4 mm / 0.449 inch
Depth	12 mm / 0.472 inch
Solder pin length	3.8 mm
Solder pin dimensions	1 x 1 mm
Drilled hole diameter (tolerance)	1.4 ^(- ... +0.1) mm

Plug connection

Contact type (pluggable connector)	Male connector/plug
Connector connection type	for PCBs

Mismating protection	Yes
Mating direction to the PCB	0°

PCB contact

PCB contact	THT
Solder pin arrangement	over the entire male connector, in line
Number of solder pins per potential	1

Material Data

Color	light gray
Material group	I
Insulating material	Polyamide 66 (PA 66)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E _{Cu})
Contact plating	tin-plated
Fire load	0.116 MJ
Weight	6.41 g

Environmental Requirements

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

Product Group	3 (Multi Conn. System)
Country of origin	PL
GTIN	4044918869843
Customs Tariff No.	85366990990

Approvals / Certificates

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CB DEKRA Certification B.V.	IEC 61984	NL-39756
	CSA DEKRA Certification B.V.	C22.2	1466354
	CSA DEKRA Certification B.V.	C22.2	1466354



KEMA/KEUR
 DEKRA Certification B.V.

EN 61984

2190761.01

Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	ABS American Bureau of Shipping	-	14- HG1241537- PDA
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE000016Z

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UR UL International Germany GmbH	UL 1977	E45171
	UR UL International Germany GmbH	UL 1977	E45171

Compatible products

Coding

	Item no.: 231-129 Coding key; snap-on type	231-129
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Female plug

	Item no.: 2721-120/026-000 1-conductor female plug; 100% protected against mismatching; push-button; 2.5 mm ² ; Pin spacing 5 mm; 20-pole	2721-120 /026-000
	Item no.: 2721-120/037-000 1-conductor female plug; 100% protected against mismatching; push-button; Locking lever; 2.5 mm ² ; Pin spacing 5 mm; 20-pole	2721-120 /037-000
	Item no.: 721-120/026-000 1-conductor female plug; 100% protected against mismatching; 2.5 mm ² ; Pin spacing 5 mm; 20-pole	721-120 /026-000

**Item no.: 721-120/037-000**1-conductor female plug; 100% protected against mismating; Locking lever; 2.5 mm²; Pin spacing 5 mm; 20-pole

/037-000

721-120

**Item no.: 721-320/008-000**1-conductor female plug; angled; 100% protected against mismating; Snap-in mounting feet; 2.5 mm²; Pin spacing 5 mm; 20-pole

/008-000

721-320

**Item no.: 721-320/031-000**1-conductor female plug; angled; 100% protected against mismating; clamping collar; 2.5 mm²; Pin spacing 5 mm; 20-pole

/031-000

721-320

**Item no.: 722-150**

THT female header; 0.6 x 1.0 mm solder pin; straight; 100% protected against mismating; Pin spacing 5 mm; 20-pole

722-150

**Item no.: 722-150/039-000**

THT female header; 0.6 x 1.0 mm solder pin; straight; 100% protected against mismating; Locking lever; Pin spacing 5 mm; 20-pole

/039-000

722-150

**Item no.: 722-150/047-000**

THT female header; 0.6 x 1.0 mm solder pin; straight; 100% protected against mismating; Spacer flange; Pin spacing 5 mm; 20-pole

/047-000

722-150

**Item no.: 722-220/026-000**1-conductor female plug; angled; 100% protected against mismating; 2.5 mm²; Pin spacing 5 mm; 20-pole

/026-000

722-220

**Item no.: 722-250**

THT female header; 0.6 x 1.0 mm solder pin; angled; 100% protected against mismating; Pin spacing 5 mm; 20-pole

722-250

**Item no.: 722-250/031-000**

THT female header; 0.6 x 1.0 mm solder pin; angled; 100% protected against mismating; clamping collar; Pin spacing 5 mm; 20-pole

/031-000

722-250

**Item no.: 722-250/039-000**

THT female header; 0.6 x 1.0 mm solder pin; angled; 100% protected against mismating; Locking lever; Pin spacing 5 mm; 20-pole

/039-000

722-250

**Item no.: 722-250/047-000**

THT female header; 0.6 x 1.0 mm solder pin; angled; 100% protected against mismating; Spacer flange; Pin spacing 5 mm; 20-pole

/047-000

722-250

Marking accessories**Item no.: 210-833**

Marking strips; on reel; 6 mm wide; plain; Self-adhesive

210-833

**Item no.: 210-834**

Marking strips; on reel; 5 mm wide; plain; Self-adhesive

210-834

Downloads**Documentation****Additional Information**pdf
3.6 MB

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CAD/CAE - Smart Data

CAD data

3D Download 721-450/001-000	URL	Download
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Subject to changes.
