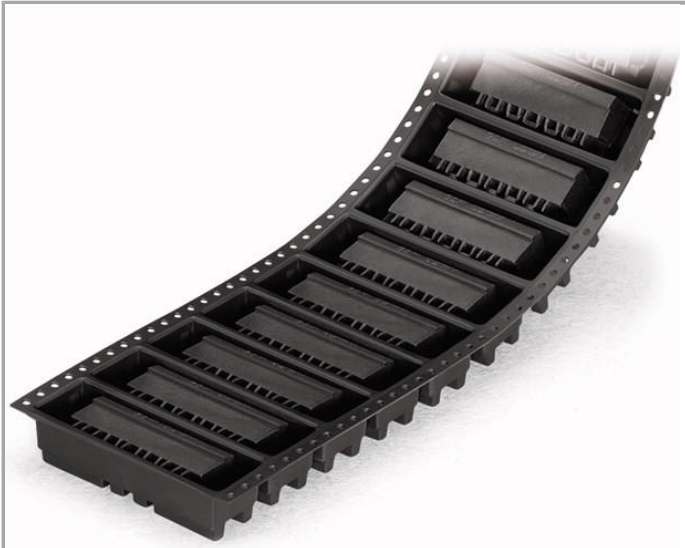


Data sheet | Item number: 231-470/001-000/105-604/997-409
 THR male header; 1.2 x 1.2 mm solder pin; angled; in tape-and-reel
 packaging; Pin spacing 5 mm; 10-pole



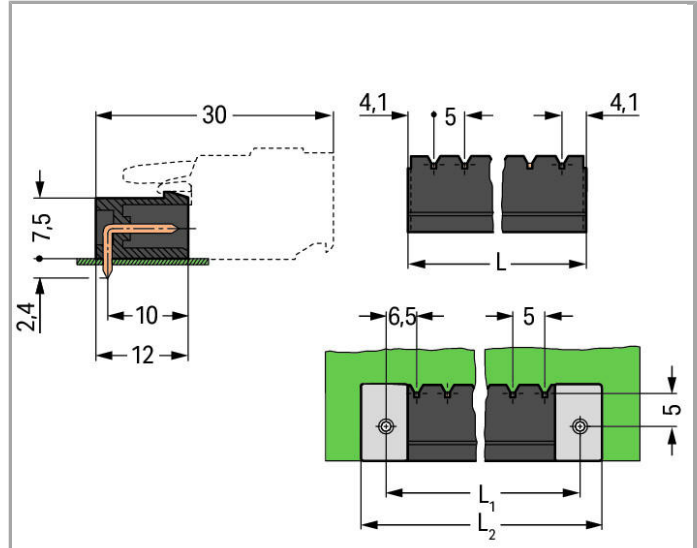
www.wago.com/231-470/001-000/105-604/997-409



RoHS Compliant

BOMcheck.net

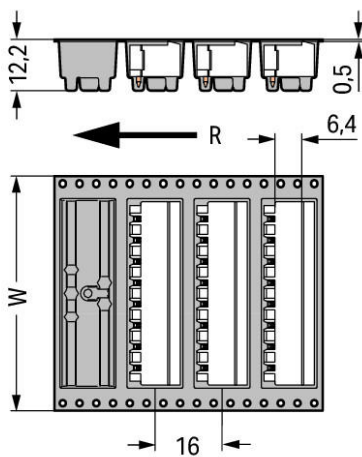
Color: ■



$$L = (\text{pole no.} \times \text{pin spacing}) + 3.2 \text{ mm}$$

$$L_1 = L + 4.8 \text{ mm}$$

$$L_2 = L_1 + 7.2 \text{ mm}$$



W= Tape width

R = Feed direction



Item description

- THR male headers for reflow soldering in SMT applications
- Available in tape-and-reel packaging for automated pick-and-place PCB assembly
- 1.2 x 1.2 mm solder pins allow nominal current up to 16 A, enhancing stability of shorter headers
- Also available in bulk packaging for manual placement
- Male headers may be mounted horizontally or vertically
- With coding fingers

Other variants can be requested via the WAGO sales department or, if necessary, configured at <https://configurator.wago.com/>: Gold-plated or partially gold-plated contact surfaces, Other pole numbers

Data

Electrical data

Ratings per IEC/EN 60664-1

Rated voltage (III / 3)	250 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	16 A
Legend (ratings)	(III / 2) $\hat{=}$ Overvoltage category III / Pollution degree 2

Approvals per CSA

Rated voltage CSA (Use Group B)	300 V
Rated voltage CSA (Use Group D)	300 V

Connection data

No. of poles	10
Total number of potentials	10
Number of levels	1

Geometrical Data

Pin spacing	5 mm (0.197 inch)
Width	53.2 mm / 2.094 inch
Height	10.8 mm / 0.425 inch
Height from the surface	8.4 mm / 0.331 inch
Depth	12 mm / 0.472 inch

Solder pin length	2.4 mm
Solder pin dimensions	1.2 x 1.2 mm
Plated through-hole diameter (THR)	1.7 (+0.1) mm
Reel diameter of tape-and-reel packaging	330 mm
Tape width	88 mm

Plug connection

Contact type (pluggable connector)	Male connector/plug
Connector connection type	for PCBs
Mismating protection	No
Mating direction to the PCB	0°

PCB contact

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

Material Data

Color	black
Material group	I
Insulating material	Polyphthalamide (PPA GF)
Flammability class per UL94	V0
Contact material	Electrolytic copper (Ecu)
Contact plating	tin-plated
Weight	3.95 g

Environmental Requirements

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

Packaging type	bag
Country of origin	DE
GTIN	4050821003984
Customs Tariff No.	85366990990

Compatible products

Marking accessories



Item no.: 210-833
Marking strips; on reel; 6 mm wide; plain; Self-adhesive

www.wago.com/210-833



Item no.: 210-834
Marking strips; on reel; 5 mm wide; plain; Self-adhesive

www.wago.com/210-834

Coding



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

www.wago.com/231-129



Item no.: 231-500
Spacer; for formation of groups

www.wago.com/231-500

Subject to changes.