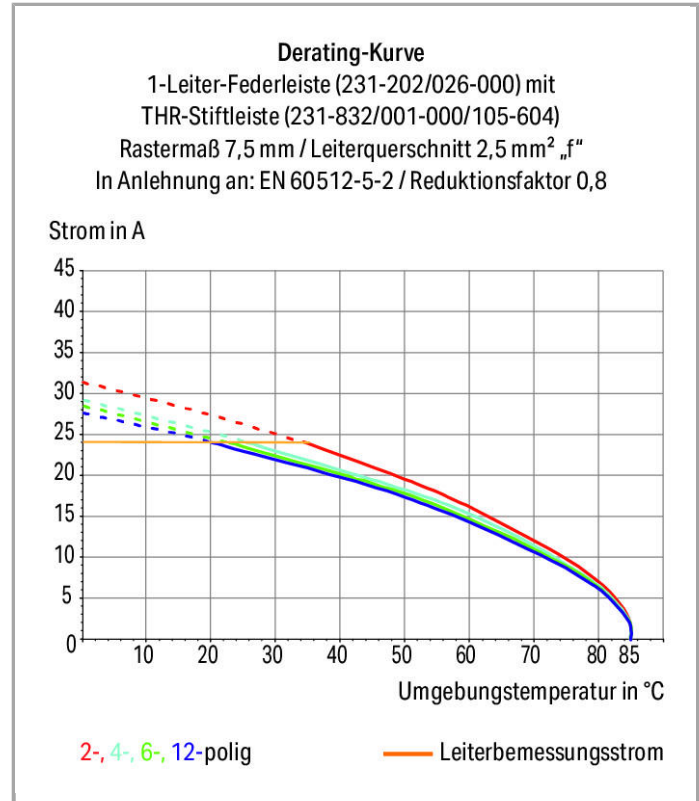
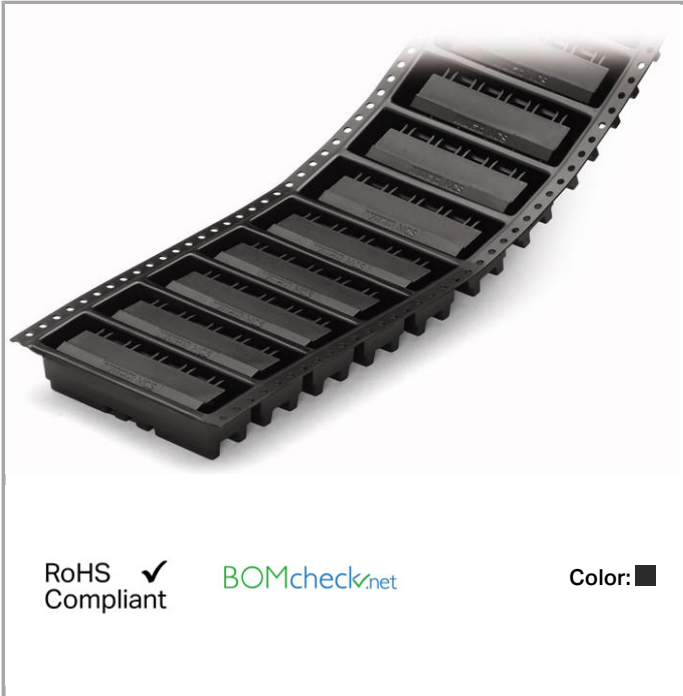
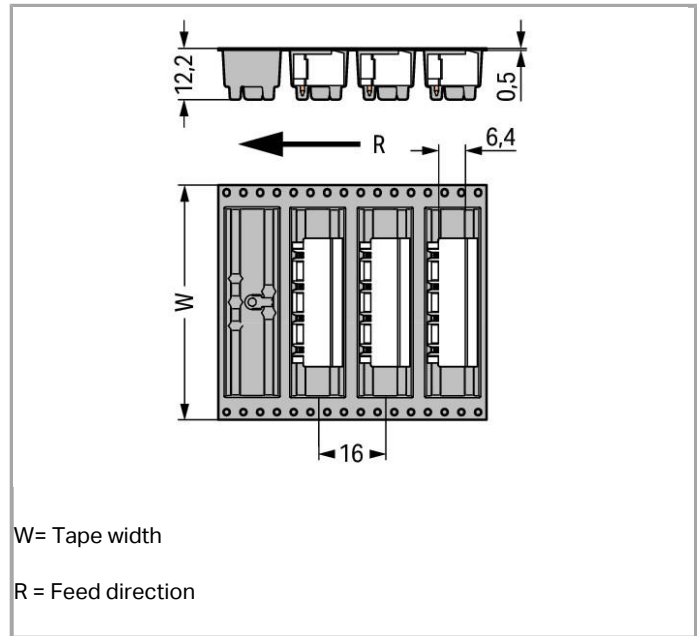
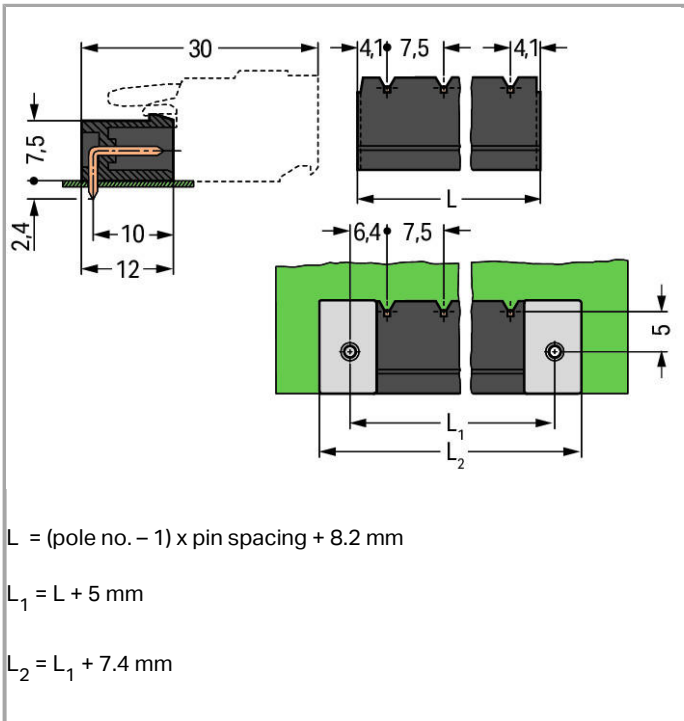


Data sheet | Item number: 231-839/001-000/105-604/997-409

THR male header; 1.0 x 1.0 mm solder pin; angled; in tape-and-reel packaging; Pin spacing 7.5 mm; 9-pole

[www.wago.com/231-839/001-000/105-604/997-409](http://www.wago.com/231-839/001-000/105-604/997-409)





### Item description

- THR male headers for reflow soldering in SMT applications
- Available in tape-and-reel packaging for automated pick-and-place PCB assembly
- 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)	500 V
Rated impulse voltage (III / 3)	6 kV
Rated voltage (III / 2)	630 V
Rated impulse voltage (III / 2)	6 kV
Rated voltage (II / 2)	1000 V
Rated impulse voltage (II / 2)	6 kV
Rated current	12 A
Legend (ratings)	(III / 2) ≙ Overvoltage category III / Pollution degree 2



### Connection data

No. of poles	9
Total number of potentials	9
Number of levels	1

### Geometrical Data

Pin spacing	7.5 mm (0.295 inch)
Width	68.2 mm / 2.685 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 x 1 mm
Plated through-hole diameter (THR)	1.4 <sup>(+ 0.1)</sup> 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
Fire load	0.086 MJ
Weight	4.02 g

## Environmental Requirements


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

Packaging type	bag
Country of origin	DE
GTIN	4050821043195
Customs Tariff No.	85366990990

## Approvals / Certificates

### UL-Approvals

Logo	Approval	Certificate name
	<b>UR</b> Underwriters Laboratories Inc.	E45172

## Compatible products

### Coding



**Item no.: 231-130**  
Coding key; snap-on type

[www.wago.com/231-130](http://www.wago.com/231-130)



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

[www.wago.com/231-500](http://www.wago.com/231-500)

### Marking accessories



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

[www.wago.com/210-833](http://www.wago.com/210-833)



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

[www.wago.com/210-834](http://www.wago.com/210-834)

Subject to changes.

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We are always happy to take your call at +49 (571) 887-44222.