

Data sheet | Item number: 713-1438/117-000

THR male header, 2-row; 0.8 x 0.8 mm solder pin; angled; 100% protected against mismatching; Threaded flange; Pin spacing 3.5 mm; 2 x 18-pole



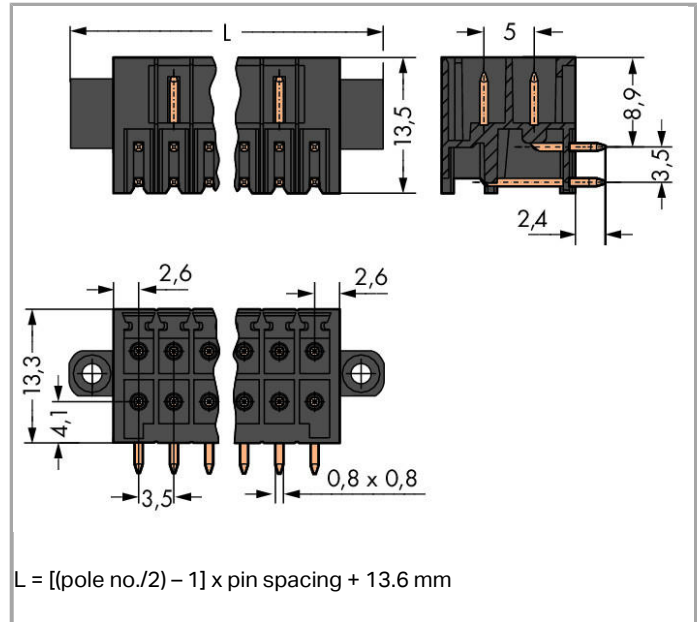
www.wago.com/713-1438/117-000



RoHS Compliant

BOMcheck.net

Color: ■



Item description

- THR male headers for reflow soldering in SMT applications
- Available in tape-and-reel packaging for automated pick-and-place PCB assembly
- Separated pin slots prevent damage and make the headers touch-proof when unplugged
- 100% protected against mismatching
- Coding pins available

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, Other solder pin lengths

Data

Electrical data

Ratings per IEC/EN 60664-1

| | |
|---------------------------------|--------|
| Rated voltage (III / 3) | 80 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) | 250 V |



| | |
|--------------------------------|---|
| Rated impulse voltage (II / 2) | 2.5 kV |
| Rated current | 10 A |
| Legend (ratings) | (III / 2) $\hat{=}$ Overvoltage category III / Pollution degree 2 |

Approvals per UL 1059

| | |
|--------------------------------|-------|
| Rated voltage UL (Use Group B) | 150 V |
| Rated current UL (Use Group B) | 10 A |
| Rated voltage UL (Use Group C) | 50 V |
| Rated current UL (Use Group C) | 10 A |

Approvals per CSA

| | |
|---------------------------------|-------|
| Rated voltage CSA (Use Group B) | 150 V |
| Rated current CSA (Use Group B) | 12 A |

Connection data

| | |
|----------------------------|----|
| No. of poles | 36 |
| Total number of potentials | 3 |
| Number of levels | 2 |

Geometrical Data

| | |
|------------------------------------|----------------------|
| Pin spacing | 3.5 mm (0.138 inch) |
| Width | 73.1 mm / 2.878 inch |
| Height | 15.7 mm / 0.618 inch |
| Height from the surface | 13.3 mm / 0.524 inch |
| Depth | 13.5 mm / 0.531 inch |
| Solder pin length | 2.4 mm |
| Solder pin dimensions | 0.8 x 0.8 mm |
| Plated through-hole diameter (THR) | 1.3 (+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° |
| Locking of plug-in connection | Threaded flange |

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 | 0.192 MJ |
| Weight | 10.208 g |

Environmental Requirements


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

Commercial data

| | |
|--------------------|------------------------|
| Country of origin | PL |
| GTIN | 4050821156703 |
| Customs Tariff No. | 85366990990 |
| Product Group | 3 (Multi Conn. System) |

Approvals / Certificates

UL-Approvals

| Logo | Approval | Certificate name |
|--|--------------------------------------|------------------|
|  | UR Underwriters Laboratories Inc. | E45172 |

Compatible products

Coding



Item no.: 714-101
Coding key

www.wago.com/714-101

Downloads

smartDATA

PCB libraries

| | | | |
|--|-------|-----|----------|
| TARGET Library for WAGO Pluggable PCB Connectors (Multi-Connection System) | 1.1.0 | ZIP | Download |
|--|-------|-----|----------|



| | | | |
|---|---------------------|---------------|----------|
| Compatible with TARGET PCB Design Software Version 17.x | Oct 6, 2014 | 7.4 MB | |
| DesignSpark Library for WAGO Pluggable PCB Connectors (MULTI CONNECTION SYSTEM) | 2.1 Oct 6, 2014 | ZIP 6.1 MB | Download |
| Compatible with DesignSpark PCB Version 4.x or higher | | | |
| EAGLE Library for WAGO Pluggable PCB Connectors (MULTI CONNECTION SYSTEM) | 2.1 Nov 17, 2017 | ZIP 6.2 MB | Download |
| Compatible with EAGLE PCB Design Software Version 6.x or higher | | | |
| CAD data | | | |
| 3D Download 713-1438/117-000 | | URL | Download |

Subject to changes.