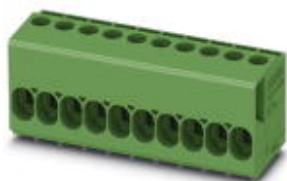


## PCB terminal block - TDPT 2,5/ 4-SC-5,08 - 1017493

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PCB terminal block, nominal current: 24 A, nom. voltage: 400 V, pitch: 5.08 mm, number of positions: 4, connection method: Screw connection with tension sleeve, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: green


The figure shows a 10-position version of the product

### Your advantages

- ✓ Easy to adapt, thanks to their identical size and the same pinning for Push-in spring connections as for screw connections
- ✓ Well-known connection principle allows worldwide use
- ✓ Low temperature rise, thanks to maximum contact force



### Key Commercial Data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 50 pc   |
| Minimum order quantity               | 50 pc   |
| GTIN                                 | <br>4 055626 500386 |
| GTIN                                 | 4055626500386   |
| Weight per Piece (excluding packing) | 8.720 g   |
| Custom tariff number                 | 85369010  |
| Country of origin                    | China   |

### Technical data

#### Item properties

|                           |                                      |
|---------------------------|--------------------------------------|
| Brief article description | PCB terminal block                   |
| Range of articles         | TDPT 2,5/...-SC                      |
| Pitch                     | 5.08 mm                              |
| Number of positions       | 4                                    |
| Connection method         | Screw connection with tension sleeve |
| Drive form screw head     | Slotted (L)                          |
| Mounting type             | Wave soldering                       |
| Pin layout                | Linear double pinning                |

# PCB terminal block - TDPT 2,5/ 4-SC-5,08 - 1017493

## Technical data

### Item properties

|                  |   |
|------------------|---|
| Number of levels | 1 |
|------------------|---|

### Electrical parameters

|                                  |       |
|----------------------------------|-------|
| Rated current                    | 24 A  |
| Rated insulation voltage (III/2) | 400 V |
| Rated surge voltage (III/2)      | 4 kV  |

### Connection capacity

|  |  |
|--|--|
| Conductor cross section solid  | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>    |
| Conductor cross section flexible   | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>  |
| Conductor cross section AWG / kcmil  | 24 ... 12                                    |
| Conductor cross section flexible, with ferrule without plastic sleeve                  | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>  |
| Conductor cross section, flexible, with ferrule, with plastic sleeve                   | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, solid  | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, flexible   | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded, with TWIN ferrules with plastic sleeve | 0.5 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> |
| Stripping length   | 10 mm  |
| Torque   | 0.5 Nm ... 0.6 Nm                            |

### Material data - contact

|  |   |
|--|---|
| Note                                     | WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/ JEDEC JESD 201 |
| Contact material                         | Cu alloy  |
| Surface characteristics                  | hot-dip tin-plated  |
| Metal surface terminal point (top layer) | Tin (4 - 8 µm Sn)   |
| Metal surface soldering area (top layer) | Tin (4 - 8 µm Sn)   |

### Material data - housing

|   |        |
|---|--------|
| Insulating material   | PA     |
| Insulating material group   | I      |
| CTI according to IEC 60112  | 600    |
| Flammability rating according to UL 94                            | V0     |
| Glow wire flammability index GWFI according to EN 60695-2-12      | 850    |
| Glow wire ignition temperature GWIT according to EN 60695-2-13    | 775    |
| Temperature for the ball pressure test according to EN 60695-10-2 | 125 °C |

### Dimensions for the product

|                             |          |
|-----------------------------|----------|
| Length [ l ]                | 18 mm    |
| Width [ w ]                 | 21.12 mm |
| Height [ h ]                | 22.5 mm  |
| Pitch                       | 5.08 mm  |
| Height (without solder pin) | 19 mm    |
| Solder pin [P]              | 3.5 mm   |

# PCB terminal block - TDPT 2,5/ 4-SC-5,08 - 1017493

## Technical data

### Dimensions for the product

|                |              |
|----------------|--------------|
| Pin spacing    | 8.7 mm       |
| Pin dimensions | 0.9 x 0.9 mm |
| Dimension a    | 15.24 mm     |

### Dimensions for PCB design

|               |        |
|---------------|--------|
| Hole diameter | 1.4 mm |
| Pin spacing   | 8.7 mm |

### Packaging information

|                            |                     |
|----------------------------|---------------------|
| Type of packaging          | packed in cardboard |
| Pieces per package         | 50                  |
| Denomination packing units | Pcs.                |

### Ambient conditions

|   |                  |
|---|------------------|
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |
| Ambient temperature (assembly)          | -5 °C ... 105 °C |
| Ambient temperature (operation)         | -40 °C           |

### Termination and connection method

|  |                     |
|--|---------------------|
| Test for conductor damage and slackening | IEC 60999-1:1999-11 |
|  | Test passed         |

### Pull-out test

|  |                             |
|--|-----------------------------|
| Pull-out test  | IEC 60999-1:1999-11         |
|  | Test passed                 |
| Conductor cross section / conductor type / tensile force | 0.2 mm² / flexible / > 10 N |
|  | 0.2 mm² / solid / > 10 N    |
|  | 2.5 mm² / flexible / > 50 N |
|  | 4 mm² / solid / > 60 N      |

### Mechanical tests according to standard

|                    |               |
|--------------------|---------------|
| Test specification | IEC 60947-7-4 |
|--------------------|---------------|

### Electrical tests

|                                  |       |
|----------------------------------|-------|
| Rated current                    | 24 A  |
| Rated insulation voltage (III/2) | 400 V |
| Rated surge voltage (III/2)      | 4 kV  |

### Air clearances and creepage distances

|                                  |       |
|----------------------------------|-------|
| Insulating material group        | I     |
| Voltage                          | 320 V |
| Rated insulation voltage (III/3) | 320 V |
| Rated insulation voltage (III/2) | 400 V |
| Rated insulation voltage (II/2)  | 630 V |
| Rated surge voltage (III/3)      | 4 kV  |

## PCB terminal block - TDPT 2,5/ 4-SC-5,08 - 1017493

### Technical data

#### Air clearances and creepage distances

|                             |      |
|-----------------------------|------|
| Rated surge voltage (III/2) | 4 kV |
| Rated surge voltage (II/2)  | 4 kV |

#### Current carrying capacity / derating curves

|               |               |
|---------------|---------------|
| Specification | IEC 60947-7-4 |
|---------------|---------------|

#### Standards and Regulations

|  |        |
|--|--------|
| Connection in acc. with standard       | EN-VDE |
| Flammability rating according to UL 94 | V0     |

#### Environmental Product Compliance

|            |   |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 5.1 | 27261100 |
| eCl@ss 6.0 | 27261100 |
| eCl@ss 7.0 | 27440401 |
| eCl@ss 8.0 | 27440401 |
| eCl@ss 9.0 | 27440401 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 5.0 | EC002643 |
| ETIM 6.0 | EC002643 |

### Approvals

#### Approvals

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#### Approvals

cULus Recognized

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#### Ex Approvals

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#### Approval details

## PCB terminal block - TDPT 2,5/ 4-SC-5,08 - 1017493

### Approvals

| cULus Recognized   |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> E60425-20180122 |       |
|--------------------|---|---|-------|
|                    | D   | B   | C     |
| Nominal voltage UN | 300 V   | 300 V   | 150 V |
| Nominal current IN | 10 A  | 20 A  | 20 A  |
| mm²/AWG/kcmil      | 24-12   | 24-12   | 24-12 |

### Accessories

#### Accessories

##### Screwdriver tools

Screwdriver - SZF 1-0,6X3,5 - 1204517



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip