

PCB terminal block - SPTA-THR 1,5/10-5,08 R72 - 1071210

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PCB terminal block, nominal current: 13.5 A, nom. voltage: 320 V, pitch: 5.08 mm, number of positions: 10, connection method: Push-in spring connection, mounting: THR soldering, conductor/PCB connection direction: 45°, color: black




The figure shows the 10-position version

Your advantages

- ✓ Time saving push-in connection, tools not required
- ✓ Defined contact force ensures that contact remains stable over the long term
- ✓ Intuitive use through colour coded actuation lever
- ✓ Angled connection enables multi-row arrangement on the PCB
- ✓ Designed for integration into the SMT soldering process



Key Commercial Data

| | |
|------------------------|---|
| Packing unit | 145 pc |
| Minimum order quantity | 145 pc |
| GTIN |  4 055626 771212 |
| GTIN | 4055626771212 |

Technical data

Item properties

| | |
|---------------------------|---------------------------|
| Brief article description | PCB terminal block |
| Range of articles | SPTA 1,5/..-THR |
| Pitch | 5.08 mm |
| Number of positions | 10 |
| Connection method | Push-in spring connection |
| Mounting type | THR soldering |
| Number of levels | 1 |

Electrical parameters

| | |
|---------------|--------|
| Rated current | 13.5 A |
|---------------|--------|

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Technical data

Electrical parameters

| | |
|----------------------------------|-------|
| Rated insulation voltage (III/2) | 320 V |
| Rated surge voltage (III/2) | 4 kV |

Connection capacity

| | |
|--|---|
| Conductor cross section solid | 0.2 mm ² ... 1.5 mm ² (Conductor connection with open terminal point) |
| | 0.34 mm ² ... 1.5 mm ² (Push-in connection) |
| Conductor cross section flexible | without |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.25 mm ² ... 1.5 mm ² |
| Conductor cross section, flexible, with ferrule, with plastic sleeve | 0.25 mm ² ... 1.5 mm ² |
| 2 conductors with same cross section, stranded, with TWIN ferrules with plastic sleeve | 0.5 mm ² ... 0.75 mm ² |
| Stripping length | 10 mm |

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 |

Material data - housing

| | |
|---|--------|
| Insulating material | LCP GF |
| CTI according to IEC 60112 | 175 |
| 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] | 11.6 mm |
| Width [w] | 50.32 mm |
| Height [h] | 15.07 mm |
| Pitch | 5.08 mm |
| Height (without solder pin) | 12.47 mm |
| Solder pin [P] | 2.6 mm |

Dimensions for PCB design

| | |
|---------------|--------|
| Hole diameter | 1.1 mm |
|---------------|--------|

Packaging information

| | |
|-----------------------------|-----------------|
| Type of packaging | 72 mm wide tape |
| Pieces per package | 145 |
| Denomination packing units | Pcs. |
| [W] tape width | 72 mm |
| [A] coil diameter | 330 mm |
| [W2] coil overall dimension | 78.4 mm |

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Packaging information

| | |
|----------------------|--|
| Outer packaging type | Transparent-Bag |
| ESD level | (D) electrostatically conductive |
| Specification | DIN EN 61340-5-1 (VDE 0300-5-1): 2008-07 |

Processing notes

| | |
|---|--|
| Process | Reflow/wave soldering |
| Specification | Following IPC/JEDEC J-STD-020E:2014-12 |
| | Following IEC 61760-1:2006-04 |
| | Following IEC 60068-2-58:2015-03 |
| Moisture Sensitive Level | MSL 1 |
| Classification temperature T _c | 260 °C |
| Solder cycles in the reflow | 3 |

Ambient conditions

| | |
|---|------------------|
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |
| Ambient temperature (assembly) | -5 °C ... 100 °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 mm ² / solid / > 10 N |
| | 1.5 mm ² / solid / > 40 N |

Electrical tests

| | |
|----------------------------------|--------|
| Rated current | 13.5 A |
| Rated insulation voltage (III/2) | 320 V |
| Rated surge voltage (III/2) | 4 kV |

Air clearances and creepage distances

| | |
|----------------------------------|-----------------------|
| Specification | IEC 60947-7-4:2013-08 |
| Insulating material group | III |
| Rated insulation voltage (III/3) | 250 V |
| Rated insulation voltage (III/2) | 320 V |
| Rated insulation voltage (II/2) | 400 V |
| Rated surge voltage (III/3) | 4 kV |
| Rated surge voltage (III/2) | 4 kV |
| Rated surge voltage (II/2) | 4 kV |

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Approvals


Approvals

Approvals

cULus Recognized

Ex Approvals

Approval details

| | | | |
|--------------------|---|---|-----------------|
| cULus Recognized |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | E60425-20061129 |
| | D | B | |
| Nominal voltage UN | 300 V | 300 V | |
| Nominal current IN | 10 A | 10 A | |

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