

## PCB terminal block - SPTA-THR 1,5/ 9-5,08 R72 - 1071209

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PCB terminal block, nominal current: 13.5 A, nom. voltage: 320 V, pitch: 5.08 mm, number of positions: 9, 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                   |  |
| GTIN                   | 4055626771205                                                                        |

### Technical data

#### Item properties

|                           |                           |
|---------------------------|---------------------------|
| Brief article description | PCB terminal block        |
| Range of articles         | SPTA 1,5/..-THR           |
| Pitch                     | 5.08 mm                   |
| Number of positions       | 9                         |
| 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 <sup>2</sup> ... 1.5 mm <sup>2</sup> (Conductor connection with open terminal point) |
|                                                                                        | 0.34 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (Push-in connection)                           |
| Conductor cross section flexible                                                       | without                                                                                     |
| Conductor cross section flexible, with ferrule without plastic sleeve                  | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>                                                |
| Conductor cross section, flexible, with ferrule, with plastic sleeve                   | 0.25 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                                                                                       |

### 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 ]                 | 45.24 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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## Technical data

### 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 <sub>c</sub> | 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 <sup>2</sup> / solid / > 10 N |
|                                                          | 1.5 mm <sup>2</sup> / 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

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#### Approvals

cULus Recognized

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#### Ex Approvals

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### Approval details

|                                                                                                                                                                                                                                                                          |       |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|
| 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> E60425-20061129 |       |       |
|                                                                                                                                                                                                                                                                          | D     | B     |
| Nominal voltage UN                                                                                                                                                                                                                                                       | 300 V | 300 V |
| Nominal current IN                                                                                                                                                                                                                                                       | 10 A  | 10 A  |

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