

## PCB terminal block - SPTA-THR 1,5/ 7-3,81 R44 - 1071184

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PCB terminal block, nominal current: 13.5 A, nom. voltage: 160 V, pitch: 3.81 mm, number of positions: 7, 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	4055626771076

### Technical data

#### Item properties

Brief article description	PCB terminal block
Range of articles	SPTA 1,5/..-THR
Pitch	3.81 mm
Number of positions	7
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)	160 V
Rated surge voltage (III/2)	2.5 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 ]	27.46 mm
Height [ h ]	15.07 mm
Pitch	3.81 mm
Height (without solder pin)	12.47 mm
Solder pin [P]	2.6 mm

### Dimensions for PCB design

Hole diameter	1.1 mm
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### Packaging information

Type of packaging	44 mm wide tape
Pieces per package	145
Denomination packing units	Pcs.
[W] tape width	44 mm
[A] coil diameter	330 mm
[W2] coil overall dimension	50.4 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)	160 V
Rated surge voltage (III/2)	2.5 kV

### Air clearances and creepage distances

Specification	IEC 60947-7-4:2013-08
Insulating material group	III
Rated insulation voltage (III/3)	160 V
Rated insulation voltage (III/2)	160 V
Rated insulation voltage (II/2)	250 V
Rated surge voltage (III/3)	2.5 kV
Rated surge voltage (III/2)	2.5 kV
Rated surge voltage (II/2)	2.5 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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