# PTSM 0,5/ 4-2,5-H THR WH R32 - PCB terminal block



1814511

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PCB terminal block, nominal current: 6 A, rated voltage (III/2): 160 V, nominal cross section: 0.5 mm<sup>2</sup>, number of potentials: 4, number of rows: 1, number of positions per row: 4, product range: PTSM 0,5/..-H-THR WH, pitch: 2.5 mm, connection method: Push-in spring connection, mounting: THR soldering, conductor/PCB connection direction: 0 °, color: signal white, Pin layout: Linear pinning, Solder pin [P]: 2.1 mm, number of solder pins per potential: 2, type of packaging: 32 mm wide tape

## Your advantages

- · White design: Stable color when welding and during use
- · Time saving push-in connection, tools not required
- · Defined contact force ensures that contact remains stable over the long term
- · High current carrying capacity of 6 A in very compact dimensions
- · Designed for integration into the SMT soldering process

## Commercial data

Item number	1814511
Packing unit	530 pc
Minimum order quantity	530 pc
Sales key	AA11
Product key	AAKCAB
Catalog page	Page 391 (C-1-2013)
GTIN	4046356760065
Weight per piece (including packing)	1.717 g
Weight per piece (excluding packing)	1.717 g
Customs tariff number	85369010
Country of origin	IN



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## Technical data

#### **Product properties**

Туре	Component suitable for through hole reflow
Product line	COMBICON Terminals XS
Product type	Printed circuit board terminal
Product family	PTSM 0,5/H-THR WH
Number of positions	4
Pitch	2.5 mm
Number of connections	4
Number of rows	1
Number of potentials	4
Pin layout	Linear pinning
Solder pins per potential	2

### **Electrical properties**

Nominal current I <sub>N</sub>	6 A
Nominal voltage U <sub>N</sub>	160 V
Degree of pollution	3
Rated voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
Rated voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
Rated voltage (II/2)	400 V
Rated surge voltage (II/2)	2.5 kV

## Connection data

Туре	Component suitable for through hole reflow
Nominal cross section	0.5 mm <sup>2</sup>
onductor connection	
Connection method	Push-in spring connection
Conductor cross section rigid	0.14 mm <sup>2</sup> 0.5 mm <sup>2</sup>
Conductor cross section flexible	0.2 mm <sup>2</sup> 0.5 mm <sup>2</sup> (up to 0.75 mm <sup>2</sup> supported, with a stripping length of 7.5 mm and a rated insulation voltage of 32 V at III/2)
Conductor cross section AWG	26 20
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 0.5 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm <sup>2</sup> 0.34 mm <sup>2</sup> (possible from 0.14 mm <sup>2</sup> , when using ferrule AI 0.14- 6 GY in combination with crimping pliers CRIMPFOX 10T-F)
Stripping length	6 mm

Mounting

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Mounting type	THR soldering
Pin layout	Linear pinning
Processing notes	
Process	Reflow/wave soldering
Moisture Sensitive Level	MSL 1
Classification temperature T <sub>c</sub>	260 °C
Solder cycles in the reflow	3

#### Material specifications

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)
aterial data - housing Color (Housing)	signal white (9003)
aterial data - housing	
aterial data - housing Color (Housing)	signal white (9003)
aterial data - housing Color (Housing) Insulating material	signal white (9003)

#### Dimensions

Dimensional drawing	h h b b
Pitch	2.5 mm
Width [w]	10.5 mm
Height [h]	7.1 mm
Length [I]	10 mm
Installed height	5 mm
Solder pin length [P]	2.1 mm
Pin dimensions	0.3 x 0.8 mm
PCB design	

Pin spacing2.5 mmHole diameter1.2 mm

#### Electrical tests



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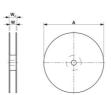
Air clearances and creepage distances	
Insulating material group	1
Rated insulation voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
Rated insulation voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
Rated insulation voltage (II/2)	400 V
Rated surge voltage (II/2)	2.5 kV

## Environmental and real-life conditions

Ambient conditions		
Ambient temperature (operation)	-40 °C 100 °C (Depending on the current carrying capacity/derating curve)	
Ambient temperature (storage/transport)	-40 °C 70 °C	
Relative humidity (storage/transport)	30 % 70 %	
Ambient temperature (assembly)	-5 °C 100 °C	

## Packaging specifications

Dim	ensiona	drawing
0	cholona	arawing



Type of packaging	32 mm wide tape
[W] tape width	32 mm
[W2] coil overall dimension	38.4 mm
[A] coil diameter	330 mm
Outer packaging type	Transparent-Bag
ESD level	(D) electrostatically conductive
Specification	DIN EN 61340-5-1 (VDE 0300-5-1): 2008-07



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# Classifications

#### ECLASS

ECLASS-11.0	27460101
ECLASS-12.0	27460101
ECLASS-13.0	27460101

## ETIM

	ETIM 9.0	EC002643			
UN	UNSPSC				
	UNSPSC 21.0	39121400			





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## Environmental product compliance

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

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