

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



# Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









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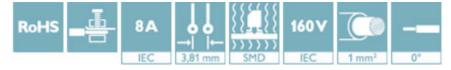
PCB terminal block, nominal current: 8 A, nom. voltage: 160 V, pitch: 3.81 mm, number of positions: 8, connection method: Screw connection with tension sleeve, mounting: SMD soldering, conductor/PCB connection direction: 0 °, color: black



The figure shows a 10-position version of the product

### Why buy this product

- Allows connection of two conductors
- Extremely small design for the respective conductor cross section
- ☑ Designed for integration into the SMT soldering process



### **Key Commercial Data**

Packing unit	14 STK
GTIN	4 017918 025595
GTIN	4017918025595

### Technical data

#### Item properties

Brief article description	PCB terminal block
Range of articles	MKDS 1/SMD
Pitch	3.81 mm
Number of positions	8
Connection method	Screw connection with tension sleeve
Screw thread	M2
Mounting type	SMD soldering
Pin layout	Linear pad geometry
Number of levels	1

#### Electrical parameters



## Technical data

### Electrical parameters

Rated current	8 A
Rated insulation voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV

## Connection capacity

Conductor cross section solid	0.14 mm² 1.5 mm²
Conductor cross section flexible	0.14 mm² 1 mm²
Conductor cross section AWG / kcmil	26 16
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 mm² 0.5 mm²
2 conductors with same cross section, solid	0.14 mm² 0.5 mm²
2 conductors with same cross section, flexible	0.14 mm² 0.2 mm²

#### 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	Tin-plated
Metal surface terminal point (top layer)	Tin (5 - 7 µm Sn)
Metal surface terminal point (middle layer)	Nickel (2 - 3 µm Ni)
Metal surface soldering area (top layer)	Tin (5 - 7 µm Sn)
Metal surface soldering area (middle layer)	Nickel (2 - 3 µm Ni)

### Material data - housing

Housing color	black
Insulating material	PA
Insulating material group	Illa
CTI according to IEC 60112	175
Flammability rating according to UL 94	V0

### Dimensions for the product

Caption	Schematic representation – for additional information, see product range drawing in the Download Center
Length [1]	7.3 mm
Width [ w ]	30.47 mm
Height [ h ]	9.2 mm
Pitch	3.81 mm
Height (without solder pin)	9.2 mm
Dimension a	26.67 mm

## Packaging information

Type of packaging	Tube magazine
Pieces per package	14
Denomination packing units	Pcs.



## Technical data

### Ambient conditions

Ambient temperature (storage/transport)	-40 °C 70 °C
Ambient temperature (assembly)	-5 °C 100 °C
Ambient temperature (operation)	-40 °C

### Electrical tests

Rated current	8 A
Rated insulation voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV

### Air clearances and creepage distances

Insulating material group	Illa
Voltage	160 V
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

### Standards and Regulations

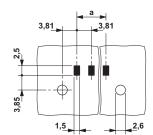
Connection in acc. with standard	EN-VDE
	CSA
Flammability rating according to UL 94	V0

### **Environmental Product Compliance**

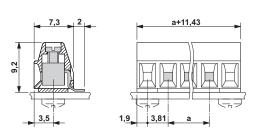
REACh SVHC	DOTE 15571-58-1
	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## **Drawings**

Drilling diagram



#### Dimensional drawing





## Approvals

Approvals

Approvals

CSA / EAC / cULus Recognized / SEV / IECEE CB Scheme

Ex Approvals

### Approval details

CSA <b>SP</b>	http://www.csagroup.org/services-industries/product-listing/ 13631	
	D	В
Nominal voltage UN	300 V	150 V
Nominal current IN	10 A	10 A
mm²/AWG/kcmil	28-16	28-16

EAC B.01742

cULus Recognized callus	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm E60425-19770427	
	D	В
Nominal voltage UN	300 V	300 V
Nominal current IN	10 A	10 A
mm²/AWG/kcmil	30-16	30-16

SEV	SEV	https://www.electro	osuisse.ch/en/meta/shop/product-certificates.html	IK-3542-M1
Nominal voltage UN			125 V	
Nominal current IN			12 A	
mm²/AWG/kcmil			1.5	



## Approvals

IECEE CB Scheme	<b>CB</b> scheme	http://www.iecee.org/	CH-8225
Nominal voltage UN		125 V	
Nominal current IN		12 A	
mm²/AWG/kcmil		1.5	

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PHOENIX CONTACT GmbH & Co. KG Flachsmarktstr. 8 32825 Blomberg Germany

Tel. +49 5235 300 Fax +49 5235 3 41200

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