

2278445

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PCB terminal block, nominal current: 8 A, rated voltage (III/2): 160 V, nominal cross section: 1.5 mm², number of potentials: 3, number of rows: 1, number of positions per row: 3, product range: MKDSO 1,5/..-L, pitch: 3.5 mm, connection method: Screw connection with tension sleeve, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: light grey, Pin layout: Linear pinning, Solder pin [P]: 3.9 mm, number of solder pins per potential: 1, type of packaging: packed in cardboard. Product with pin output on left side

Your advantages

- · Maintenance-free and vibration-resistant, thanks to the Reakdyn principle or spring-loaded elements
- · PCB terminal block is orthogonal to the PCB
- · Internationally recognized and proven screw connection

Commercial data

Item number	2278445
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AC08
Product key	ACHADA
Catalog page	Page 89 (C-1-2013)
GTIN	4046356293044
Weight per piece (including packing)	3.32 g
Weight per piece (excluding packing)	3.32 g
Customs tariff number	85369010
Country of origin	CN



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Technical data

Product properties

Туре	PCB termination block perpendicular to the PCB
Product type	Printed circuit board terminal
Product family	MKDSO 1,5/L
Number of positions	3
Pitch	3.5 mm
Number of connections	3
Number of rows	1
Number of potentials	3
Pin layout	Linear pinning
Solder pins per potential	1

Electrical properties

Nominal current I _N	8 A
Nominal voltage U _N	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)	320 V
Rated surge voltage (II/2)	2.5 kV

Connection data

Connection technology

Nominal cross section	1.5 mm²
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Conductor connection

Connection method	Screw connection with tension sleeve
Conductor cross section rigid	0.14 mm² 1.5 mm²
Conductor cross section flexible	0.14 mm² 1.5 mm²
Conductor cross section AWG	28 16
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 1.5 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 0.5 mm²
2 conductors with same cross section, solid	0.08 mm² 0.5 mm²
2 conductors with same cross section, flexible	0.08 mm² 0.75 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm² 0.34 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 0.5 mm²
Cylindrical gauge a x b / diameter	2.4 mm x 1.5 mm / -



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Stripping length	7 mm
Tightening torque	0.22 Nm 0.25 Nm

Mounting

Mounting type	Wave soldering
Pin layout	Linear pinning

Material specifications

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 (Sn)

Material data - housing

Color (Housing)	light grey (7035)
Insulating material	PA
Insulating material group	I
CTI according to IEC 60112	600
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

Dimensional drawing	n n
Pitch	3.5 mm
Width [w]	11.55 mm
Height [h]	17.55 mm
Length [I]	15.28 mm
Solder pin length [P]	3.9 mm
Pin dimensions	0.6 x 0.8 mm
PCB design	
Hole diameter	1.2 mm

Mechanical tests

Test for conductor damage and slackening



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Specification	IEC 60998-2-1:2002-12
Result	Test passed
Pull-out test	
Specification	IEC 60998-2-1:2002-12
Conductor cross section/conductor type/tractive force setpoint/actual value	0.14 mm² / solid / > 10 N
	0.14 mm² / flexible / > 10 N
	1.5 mm² / solid / > 40 N
	1.5 mm² / flexible / > 40 N
Torque test	
Specification	IEC 60998-2-1:1990-04
lectrical tests	
Tamparatura rica taat	
Temperature-rise test	IEC 60998-1:2002-12
Specification Requirement temperature-rise test	Increase in temperature ≤ 45 K
Requirement temperature-rise test	increase in temperature 2 43 K
Insulation resistance	
Specification	IEC 60998-1:2002-12
Insulation resistance, neighboring positions	> 50 GΩ
Air clearances and creepage distances	
Specification	IEC 60664-1:2007-04
Insulating material group	I.
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
minimum clearance value - non-homogenous field (III/3)	1.5 mm
minimum creepage distance (III/3)	2 mm
Rated insulation voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
minimum clearance value - non-homogenous field (III/2)	1.5 mm
minimum creepage distance (III/2)	0.8 mm

Environmental and real-life conditions

minimum creepage distance (II/2)

minimum clearance value - non-homogenous field (II/2)

Rated insulation voltage (II/2)

Rated surge voltage (II/2)

Vibration	test
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Specification	IEC 60068-2-6:1995-03
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz 60.1 Hz)

320 V

 $2.5 \; kV$

1.5 mm

1.6 mm



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Sweep speed	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
ow-wire test	
Specification	IEC 60998-1:2002-12
Temperature	850 °C
Time of exposure	5 s
nbient conditions Ambient temperature (operation)	-40 °C 105 °C (Depending on the current carrying capacity/derating curve)
Ambient temperature (storage/transport)	-40 °C 55 °C
Relative humidity (storage/transport)	30 % 70 %
Ambient temperature (assembly)	-5 °C 100 °C



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Classifications

ECLASS

	ECLASS-11.0	27460101		
	ECLASS-12.0	27460101		
	ECLASS-13.0	27460101		
ETIM				
	ETIM 9.0	EC002643		
UNSPSC				
	UNSPSC 21.0	39121400		



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Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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