

1311183

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PCB connector, nominal cross section: 1.5 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Socket, number of rows: 1, number of positions: 7, product range: MC 1,5/..-ST, pitch: 3.81 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, pin layout: Linear three-way pinning, plug-in system: COMBICON MC 1,5, locking: without, mounting: without, type of packaging: packed in cardboard

Your advantages

- · Well-known connection principle allows worldwide use
- · Low temperature rise, thanks to maximum contact force
- · Allows connection of two conductors

Commercial data

Item number	1311183
Packing unit	50 pc
Minimum order quantity	1,000 pc
Note	Made to order (non-returnable)
Product key	AABABA
GTIN	4063151562212
Weight per piece (including packing)	5.34 g
Weight per piece (excluding packing)	4.911 g
Country of origin	DE



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Technical data

Product properties

Product line	COMBICON Connectors S
Product type	PCB connector
Product family	MC 1,5/ST
Number of positions	7
Pitch	3.81 mm
Number of rows	1
Pin layout	Linear three-way pinning

Electrical properties

Nominal current I _N	8 A
Nominal voltage U _N	160 V
Degree of pollution	3
Contact resistance	1.3 mΩ
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

Туре	Standard
Connector system	COMBICON MC 1,5
Nominal cross section	1.5 mm ²
Contact connection type	Socket

Interlock

Locking type	without
Mounting flange	without

Conductor connection

Conductor Connection	
Connection method	Screw connection with tension sleeve
Conductor/PCB connection direction	0 °
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 mm ² 1.5 mm ²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 0.75 mm²
2 conductors with same cross section, solid	0.08 mm² 0.5 mm²



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0.08 mm² 0.75 mm²
0.25 mm² 0.34 mm²
0.5 mm ² 0.5 mm ²
2.4 mm x 1.5 mm / 1.6 mm
7 mm
0.22 Nm 0.25 Nm
1212034 CRIMPFOX 6
1212034 CRIMPFOX 6

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	hot-dip tin-plated
Metal surface terminal point (top layer)	Tin (4 - 8 μm Sn)
Metal surface contact area (top layer)	Tin (4 - 8 µm Sn)

Material data - housing

Color (Housing)	green (6021)
Insulating material	PA
Insulating material group	1
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	h
Pitch	3.81 mm
Width [w]	27.46 mm
Height [h]	11.1 mm
Length [I]	16.1 mm



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Mounting

Pin layout	Linear three-way pinning
Drive form screw head	Slotted (L)
Drive form screw head	Slotted (L)

Mechanical tests

Test for conductor damage and slackening

Specification	IEC 60999-1:1999-11
Result	Test passed

Pull-out test

Specification	IEC 60999-1:1999-11
Conductor cross section/conductor type/tractive force	0.14 mm² / solid / > 7 N
setpoint/actual value	0.14 mm² / flexible / > 7 N
	1.5 mm² / solid / > 40 N
	1.5 mm² / flexible / > 40 N

Insertion and withdrawal forces

Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	6 N
Withdraw strength per pos. approx.	4 N

Torque test

Specification IEC 60999-1:1999-11

Resistance of inscriptions

Specification	IEC 60068-2-70:1995-12
Result	Test passed

Polarization and coding

Specification	IEC 60512-13-5:2006-02
Result	Test passed

Visual inspection

Specification	IEC 60512-1-1:2002-02
Result	Test passed

Dimension check

Specification	IEC 60512-1-2:2002-02
Result	Test passed

Environmental and real-life conditions

Vibration test

The sales is took		
	Specification	IEC 60068-2-6:2007-12
	Frequency	10 - 150 - 10 Hz



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Course seed	A materialism
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz 60.1 Hz)
Sweep speed	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
urability test	
Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	2.95 kV
Contact resistance R ₁	1.3 mΩ
Contact resistance R ₂	1.5 mΩ
Insertion/withdrawal cycles	25
Insulation resistance, neighboring positions	> 5 MΩ
limatic test	
Specification	ISO 6988:1985-02
Corrosive stress	0.2 dm ³ SO ₂ on 300 dm ³ /40 °C/1 cycle
Thermal stress	100 °C/168 h
Power-frequency withstand voltage	1.39 kV
and the state of t	
Ambient temperature (exerction)	-40 °C 100 °C (dependent on the derating curve)
Ambient temperature (operation)	-40 °C 70 °C
Ambient temperature (storage/transport)	30 % 70 %
Relative humidity (storage/transport) Ambient temperature (assembly)	-5 °C 100 °C
ctrical tests	
ctrical tests hermal test Test group C Specification	IEC 60512-5-1:2002-02
hermal test Test group C	IEC 60512-5-1:2002-02 20
hermal test Test group C Specification Tested number of positions	
hermal test Test group C Specification Tested number of positions sulation resistance	20
hermal test Test group C Specification Tested number of positions sulation resistance Specification	20 IEC 60512-3-1:2002-02
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hermal test Test group C Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions ir clearances and creepage distances	20 IEC 60512-3-1:2002-02 > 5 MΩ
hermal test Test group C Specification Tested number of positions sullation resistance Specification Insulation resistance, neighboring positions ir clearances and creepage distances Specification	20 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04
hermal test Test group C Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions ir clearances and creepage distances Specification Insulating material group	20 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 I
hermal test Test group C Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions ir clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112)	20 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 I CTI 600
hermal test Test group C Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions ir clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3)	20 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 I CTI 600 160 V
hermal test Test group C Specification Tested number of positions Insulation resistance Specification Insulation resistance, neighboring positions Insulation resistance Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3)	20 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 I CTI 600 160 V 2.5 kV
hermal test Test group C Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions ir clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3)	20 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 I CTI 600 160 V 2.5 kV 1.5 mm
hermal test Test group C Specification Tested number of positions Insulation resistance Specification Insulation resistance, neighboring positions ir clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum creepage distance (III/3)	20 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 I CTI 600 160 V 2.5 kV 1.5 mm 2 mm
hermal test Test group C Specification Tested number of positions Insulation resistance Specification Insulation resistance, neighboring positions ir clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3) Note on connection cross section	20 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 I CTI 600 160 V 2.5 kV 1.5 mm 2 mm With connected conductor 1.5 mm² (solid).
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hermal test Test group C Specification Tested number of positions Insulation resistance Specification Insulation resistance, neighboring positions ir clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3) Note on connection cross section	20 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 I CTI 600 160 V 2.5 kV 1.5 mm 2 mm With connected conductor 1.5 mm² (solid).



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minimum creepage distance (III/2)	1.5 mm
Rated insulation voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV
minimum clearance value - non-homogenous field (II/2)	1.5 mm
minimum creepage distance (II/2)	1.6 mm

Packaging specifications

Type of packaging	packed in cardboard
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Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27460202
ECLASS-12.0	27460202
ECLASS-13.0	27460202
ETIM	
ETIM 9.0	EC002638
UNSPSC	

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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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