

1861727

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PCB headers, nominal cross section: 1.5 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Pin, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: MCO 1,5/..-GR, pitch: 3.81 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3 mm, number of solder pins per potential: 1, plug-in system: COMBICON MC 1,5, locking: without, mounting: without, type of packaging: packed in cardboard

Your advantages

• Maximum flexibility when it comes to device design – one header for connectors with different connection technologies

Commercial data

Item number	1861727
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AA02
Product key	AABSOC
Catalog page	Page 231 (C-1-2013)
GTIN	4017918133498
Weight per piece (including packing)	7.47 g
Weight per piece (excluding packing)	7.47 g
Customs tariff number	85366930
Country of origin	PL



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Technical data

Product properties

Product type	PCB headers
Product family	MCO 1,5/GR
Product line	COMBICON Connectors S
Туре	Header perpendicular to the PCB
Number of positions	10
Pitch	3.81 mm
Number of connections	10
Number of rows	1
Number of potentials	10
Mounting flange	without
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
Contact resistance	3 mΩ
Rated voltage (III/3)	125 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)	200 V
Rated surge voltage (II/2)	2.5 kV

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	hot-dip tin-plated
Metal surface contact area (top layer)	Tin (5 - 7 μm Sn)
Metal surface soldering area (top layer)	Tin (5 - 7 μm Sn)

Material data - housing

Material data - Housing		
	Color (Housing)	green (6021)
	Insulating material	PBT



Result

No. of cycles

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Insulating material group	Illa
CTI according to IEC 60112	225
Flammability rating according to UL 94	V0
ensions	
Dimensional drawing	P
Pitch	3.81 mm
Width [w]	39.49 mm
Height [h]	11 mm
Length [I]	52.29 mm
Installed height	11 mm
Solder pin length [P]	3 mm
Pin dimensions	0.9 x 0.32 mm
CB design	
CB design Hole diameter	1.2 mm
	1.2 mm
Hole diameter Chanical tests	1.2 mm IEC 60512-1-1:2002-02
Hole diameter chanical tests isual inspection	
Hole diameter chanical tests sual inspection Specification	IEC 60512-1-1:2002-02
Hole diameter chanical tests sual inspection Specification Result	IEC 60512-1-1:2002-02
Hole diameter Chanical tests Issual inspection Specification Result Imension check	IEC 60512-1-1:2002-02 Test passed
Hole diameter chanical tests sual inspection Specification Result imension check Specification	IEC 60512-1-1:2002-02 Test passed IEC 60512-1-2:2002-02
Hole diameter Chanical tests isual inspection Specification Result imension check Specification Result	IEC 60512-1-1:2002-02 Test passed IEC 60512-1-2:2002-02
Hole diameter Chanical tests Issual inspection Specification Result Imension check Specification Result Essistance of inscriptions	IEC 60512-1-1:2002-02 Test passed IEC 60512-1-2:2002-02 Test passed
Hole diameter Chanical tests isual inspection Specification Result imension check Specification Result esistance of inscriptions Specification	IEC 60512-1-1:2002-02 Test passed IEC 60512-1-2:2002-02 Test passed IEC 60068-2-70:1995-12
Hole diameter Chanical tests isual inspection Specification Result imension check Specification Result esistance of inscriptions Specification Result	IEC 60512-1-1:2002-02 Test passed IEC 60512-1-2:2002-02 Test passed IEC 60068-2-70:1995-12
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Hole diameter Chanical tests Issual inspection Specification Result Imension check Specification Result esistance of inscriptions Specification Result Diarization and coding Specification	IEC 60512-1-1:2002-02 Test passed IEC 60512-1-2:2002-02 Test passed IEC 60068-2-70:1995-12 Test passed IEC 60512-13-5:2006-02
Hole diameter Chanical tests Issual inspection Specification Result Imension check Specification Result esistance of inscriptions Specification Result Diarization and coding Specification Result	IEC 60512-1-1:2002-02 Test passed IEC 60512-1-2:2002-02 Test passed IEC 60068-2-70:1995-12 Test passed IEC 60512-13-5:2006-02

Test passed

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Withdraw strength per pos. approx. 6 N Electrical tests Thermal test I Test group C.		Insertion strength per pos. approx.	8 N
	,	Withdraw strength per pos. approx.	6 N
mornial took rook group o		trical tests ermal test Test group C	

IEC 60512-5-1:2002-02

Insulation resistance

Tested number of positions

Specification

Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ

10

Air clearances and creepage distances

Air clearances and creepage distances	
Specification	IEC 60664-1:2007-04
Insulating material group	Illa
Comparative tracking index (IEC 60112)	CTI 225
Rated insulation voltage (III/3)	125 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)	1.5 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)	1.6 mm
Rated insulation voltage (II/2)	200 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)	2 mm

Environmental and real-life conditions

Vibration test

Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz 60.1 Hz)
Acceleration	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h

Durability test

Zurability toot	
Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	2.95 kV
Contact resistance R ₁	3 mΩ
Contact resistance R ₂	$3.2~\text{m}\Omega$
Insertion/withdrawal cycles	25



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pecification	ISO 6988:1985-02
forrosive 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
Ambient temperature (operation)	-40 °C 100 °C (dependent on the derating curve)
	-40 °C 100 °C (dependent on the derating curve) -40 °C 70 °C
Ambient temperature (operation)	, ,

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