

1702806

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PCB headers, nominal cross section: 1.5 mm², color: black, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Sn, contact connection type: Pin, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: MCO 1,5/..-GL, 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, Pin connector pattern alignment: Orthogonal, locking: without, mounting method: 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	1702806
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AA02
Product key	AABSOA
GTIN	4046356619677
Weight per piece (including packing)	1.546 g
Weight per piece (excluding packing)	1.462 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/GL
Product line	COMBICON Connectors S
Number of positions	3
Pitch	3.81 mm
Number of connections	3
Number of rows	1
Number of potentials	3
Mounting type	without
Pin layout	Linear pinning
Solder pins per potential	1

Electrical properties

Properties

Nominal current I _N	8 A
Nominal voltage U _N	160 V
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	tin-plated
Metal surface terminal point (top layer)	Tin (Sn)
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

	Color (Housing)	black (9005)
	Insulating material	PBT



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Insulating material group	Illa
CTI according to IEC 60112	225
Flammability rating according to UL 94	V0

Dimensions

Dimensional drawing	Property of the second
Pitch	3.81 mm
Width [w]	12.82 mm
Height [h]	11 mm
Length [I]	25 mm
Installed height	8 mm
Solder pin length [P]	3 mm
Pin dimensions	0.9 x 0.32 mm
PCB design	
Hole diameter	1.2 mm

Electrical tests

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)	2.4 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

Ambient conditions

Ambient temperature (operation)	-40 °C 100 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C 70 °C



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Deletive leveridity (et energy (transport)	20.0/ 70.0/	
Relative humidity (storage/transport)	30 % 70 %	
Ambient temperature (assembly)	-5 °C 100 °C	
Packaging specifications		
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Approvals

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VDE approval of drawings

Approval ID: 40011723



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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-13.0	27460201
	ECLASS-15.0	27460201
ET	TIM	
	ETIM 9.0	EC002637
UN	ISPSC	

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Environmental product compliance

EU RoHS

20 1.01.0	
Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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