1840886

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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: Tin, contact connection type: Pin, number of potentials: 20, number of rows: 2, number of positions: 10, number of connections: 20, product range: MCD 1,5/..-G2, pitch: 3.5 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.5 mm, number of solder pins per potential: 1, plug-in system: COMBICON MC 1,5, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: packed in cardboard

Your advantages

- · Well-known mounting principle allows worldwide use
- · Maximum flexibility when it comes to device design one header for connectors with different connection technologies
- · Conductor connection on several levels enables higher contact density

Commercial data

Item number	1840886
Packing unit	100 pc
Minimum order quantity	100 pc
Note	Made to order (non-returnable)
Product key	AABSGA
GTIN	4046356902861
Weight per piece (including packing)	11.21 g
Weight per piece (excluding packing)	10.1 g
Country of origin	CN



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Technical data

Product properties

Product line	COMBICON Connectors S
Product type	PCB headers
Product family	MCD 1,5/G2
Number of positions	10
Pitch	3.5 mm
Number of connections	20
Number of rows	2
Number of potentials	20
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

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 contact area (top layer)	Tin (5 - 7 μm Sn)	
Metal surface contact area (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		
Color (Housing)	black (9005)	
Insulating material	PA	
Insulating material group		

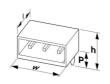
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CTI according to IEC 60112	600
Flammability rating according to UL 94	V0
Glow wire flammability index GWFI according to EN 60695-2-12	850
Glow wire ignition temperature GWIT according to EN 60695-2- 13	775
Temperature for the ball pressure test according to EN 60695- 10-2	125 °C

Dimensions



Pitch	3.5 mm
Width [w]	36 mm
Height [h]	24.4 mm
Length [I]	21.9 mm
Installed height	20.9 mm
Solder pin length [P]	3.5 mm
Pin dimensions	0.8 x 0.8 mm

1.2 mm

PCB design

Hole diameter

Electrical tests

Air clearances and creepage distances |

Specification	IEC 60664-1:2007-04
Insulating material group	1
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)	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

Environmental and real-life conditions

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Ambient temperature (operation)	-40 °C 100 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C 70 °C
Relative humidity (storage/transport)	30 % 70 %
Ambient temperature (assembly)	-5 °C 100 °C

Type of packaging

packed in cardboard



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Classifications

ECLASS

ECLASS-12.0 27460201 ECLASS-13.0 27460201	ECLASS-11.0	27460201
ECLASS-13.0 27460201	ECLASS-12.0	27460201
	ECLASS-13.0	27460201

ETIM

	ETIM 9.0	EC002637
U	NSPSC	
	UNSPSC 21.0	39121400

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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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