

1847110

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PCB headers, nominal cross section: 2.5 mm², color: green, nominal current: 8 A, rated voltage (III/2): 320 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: MSTBO 2,5/..-GR, pitch: 5.08 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.2 mm, number of solder pins per potential: 1, plug-in system: COMBICON MSTB 2,5, Pin connector pattern alignment: Orthogonal, locking: without, mounting method: without, type of packaging: packed in cardboard

### Your advantages

- · Well-known mounting principle allows worldwide use
- · Can be combined with the MSTB 2,5 range
- · Maximum flexibility when it comes to device design one header for connectors with different connection technologies

#### Commercial data

Item number	1847110
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA03
Product key	AACSKB
Catalog page	Page 321 (C-1-2013)
GTIN	4017918121471
Weight per piece (including packing)	1.96 g
Weight per piece (excluding packing)	1.94 g
Customs tariff number	85366930
Country of origin	PL



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### Technical data

### Product properties

Product type	PCB headers
Product family	MSTBO 2,5/GR
Product line	COMBICON Connectors M
Туре	Header perpendicular to the PCB
Number of positions	3
Pitch	5.08 mm
Number of connections	3
Number of rows	1
Number of potentials	3
Mounting flange	without
Pin layout	Linear pinning
Solder pins per potential	1

### Electrical properties

#### Properties

Nominal current I <sub>N</sub>	8 A
Nominal voltage U <sub>N</sub>	320 V
Rated voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
Rated voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
Rated voltage (II/2)	630 V
Rated surge voltage (II/2)	4 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

Color (Housing)	green (6021)
Insulating material	PA



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Insulating material group	T
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

#### Notes

Notes on operation	In accordance with IEC 61984, COMBICON connectors have no switching power (COC). During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
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#### **Dimensions**

Dimensional drawing	P <sup>A</sup> <sub>Y</sub> h
Pitch	5.08 mm
Width [w]	15.19 mm
Height [h]	23.62 mm
Length [I]	33.85 mm
Installed height	20.42 mm
Solder pin length [P]	3.2 mm
Pin dimensions	0.32 x 1.2 mm
PCB design	
Hole diameter	1.3 mm

### Electrical tests

#### Air clearances and creepage distances |

Insulating material group	I
Rated insulation voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
Rated insulation voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
Rated insulation voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV

#### Environmental and real-life conditions

#### Ambient conditions

Ambient temperature (operation)	-40 °C 100 °C (dependent on the derating curve)



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Ambient temperature (storage/transport)	-40 °C 70 °C
Relative humidity (storage/transport)	30 % 70 %
Ambient temperature (assembly)	-5 °C 100 °C
Packaging specifications	
Type of packaging	packed in cardboard

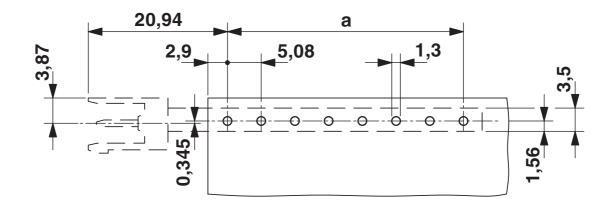


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## Drawings

### Drilling plan/solder pad geometry





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## **Approvals**

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CSA Approval ID: 13631				
	Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Use group B				
	300 V	6.5 A	-	-
Use group D				
	300 V	6.5 A	-	-

CULus Recogni Approval ID: E60425	CULus Recognized Approval ID: E60425-20050718				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>	
Use group B					
	250 V	8 A	-	-	
Use group D					
	300 V	8 A	-	-	

VDE approval of drawings Approval ID: 40050648				
	Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
	250 V	8 A	-	-



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## Classifications

UNSPSC 21.0

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		A.7.7

	ECLASS-13.0	27460201
ΕΊ	ГІМ	
	ETIM 9.0	EC002637
U	NSPSC	

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## Environmental product compliance

#### EU RoHS

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%
EF3.0 Climate Change	
CO2e kg	0.219 kg CO2e

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