1830919

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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: Socket, number of potentials: 7, number of rows: 1, number of positions: 7, number of connections: 7, product range: IMCV 1,5/..-G-RN-THR, pitch: 3.5 mm, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 1. 9 mm, number of solder pins per potential: 2, plug-in system: COMBICON MC 1,5, Pin connector pattern alignment: Standard, locking: Snap-in locking, mounting: Engagement nose, type of packaging: packed in cardboard

Your advantages

- Designed for integration into the SMT soldering process
- Intuitive locking mechanism prevents accidental disconnection
- · Vertical connection enables multi-row arrangement on the PCB
- · Inverted header with socket contacts for touch-proof device outputs or PCB/PCB connections

Commercial data

Item number	1830919	
Packing unit	50 pc	
Minimum order quantity	50 pc	
Sales key	AA02	
Product key	AABTIC	
Catalog page	Page 17 (NTK-2014)	
GTIN	4046356888523	
Weight per piece (including packing)	2.58 g	
Weight per piece (excluding packing)	2.54 g	
Customs tariff number	85366930	
Country of origin	DE	

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Technical data

Product properties

Product type	PCB headers	
Product family	IMCV 1,5/G-RN-THR	
Product line	COMBICON Connectors S	
Туре	Inverted	
Number of positions	7	
Pitch	3.5 mm	
Number of connections	7	
Number of rows	1	
Number of potentials	7	
Mounting flange	Engagement nose	
Pin layout	Linear pinning	
Solder pins per potential	2	

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	THR soldering
Pin layout	Linear pinning

Material specifications

Cu alloy	
Tin (2 - 4 µm Sn)	

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CTI according to IEC 60112	175
Flammability rating according to UL 94	V0

Dimensions

Dimensional drawing	h h P
Pitch	3.5 mm
Width [w]	25.3 mm
Height [h]	16.35 mm
Length [I]	6.3 mm
Installed height	14.45 mm
Solder pin length [P]	1.9 mm
Pin dimensions	0.62 x 1.12 mm
PCB design	
Pin spacing	3.81 mm

1.2 mm

Electrical tests

Hole diameter

Air clearances and creepage distances |

Specification	IEC 60664-1:2007-04		
Insulating material group	Illa		
Comparative tracking index (IEC 60112)	CTI 175		
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)	2.5 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)	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)	3.2 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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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



Type: IMC(V) 1,5/...-G-3,5 THR with MC(V) 1,5/...-G-3,5 THR

Drilling plan/solder pad geometry





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Dimensional drawing





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Approvals

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Approval ID: E60425-20110128					
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²	
Use group B					
	300 V	8 A	-	-	
Use group D					
	300 V	8 A	-	-	

VDE Zeichengenehmigung Approval ID: 40011723					
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		160 V	8 A	-	-

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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	
UNSPSC			
	UNSPSC 21.0	39121400	

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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%

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