

1704820

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PCB headers, nominal cross section: 1.5 mm², color: gray, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Au, contact connection type: Pin, number of potentials: 16, number of rows: 2, number of positions: 8, number of connections: 16, product range: MCDNV 1,5/..-G1-RN-THR, pitch: 3.5 mm, mounting: THR soldering / wave soldering, pin layout: Linear pinning, solder pin [P]: 2.6 mm, number of solder pins per potential: 1, plug-in system: COMBICON FMC 1,5 - MCDN 1,5, Pin connector pattern alignment: Standard, locking: Snap-in locking, mounting method: Engagement nose, type of packaging: packed in cardboard

Your advantages

- · Gold-plated contacts ensure transfer quality remains stable over the long term
- · Designed for integration into the SMT soldering process
- · Intuitive locking mechanism prevents accidental disconnection
- · Vertical connection enables multi-row arrangement on the PCB

Commercial data

Item number	1704820
Packing unit	35 pc
Minimum order quantity	35 pc
Product key	AABTGC
GTIN	4046356914840
Weight per piece (including packing)	6.88 g
Weight per piece (excluding packing)	4.319 g
Country of origin	DE



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Technical data

Product properties

Product type	PCB headers
Product family	MCDNV 1,5/G1-RN-THR
Product line	COMBICON Connectors S
Number of positions	8
Pitch	3.5 mm
Number of connections	16
Number of rows	2
Number of potentials	16
Mounting type	Engagement nose
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)	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)	250 V
Rated surge voltage (II/2)	2.5 kV

Mounting

Mounting type	THR soldering / 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	Completely gold-plated
Metal surface contact area (top layer)	Gold (0.8 - 1.4 µm Au)
Metal surface contact area (middle layer)	Nickel (1 - 3 µm Ni)
Metal surface soldering area (top layer)	Gold (0.8 - 1.4 µm Au)
Metal surface soldering area (middle layer)	Nickel (1 - 3 µm Ni)

Material data - housing

Color (Housing)	gray (7042)



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Insulating material	LCP
Insulating material group	Illa
CTI according to IEC 60112	175
Flammability rating according to UL 94	V0

Dimensions

Dimensional drawing	h h
Pitch	3.5 mm
Width [w]	31.7 mm
Height [h]	14.7 mm
Length [I]	15.2 mm
Installed height	13.3 mm
Solder pin length [P]	2.6 mm
Pin dimensions	0.8 x 0.8 mm
PCB design	
Hole diameter	1.4 mm

Electrical tests

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)	250 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)	2.5 mm

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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Approvals

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CULus Recognized Approval ID: E60425-20110128				
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
В				
	150 V	8 A	-	-
D				
	150 V	8 A	-	-

	VDE approval of drawings
₩	Approval ID: 40011723





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Classifications

ECLASS

	ECLASS-13.0	27460201		
	ECLASS-15.0	27460201		
ETIM				
	ETIM 9.0	EC002637		
UNSPSC				
	UNSPSC 21.0	39121400		



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Environmental product compliance

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	0.101 kg CO2e			

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