

https://www.phoenixcontact.com/us/products/1783452



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PCB headers, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Sn, contact connection type: Pin, number of potentials: 9, number of rows: 1, number of positions: 9, number of connections: 9, product range: MSTB 2,5/..-GU, pitch: 5 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.3 mm, number of solder pins per potential: 1, plug-in system: COMBICON MSTB 2,5, Pin connector pattern alignment: reversed, 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
- · Easy PCB replacement thanks to plug-in modules
- · Well-known mounting principle allows worldwide use

Commercial data

Item number	1783452	
Packing unit	50 pc	
Minimum order quantity	50 pc	
Note	Made to order (non-returnable)	
Sales key	AA03	
Product key	AACSGE	
GTIN	4017918041809	
Weight per piece (including packing)	4.29 g	
Weight per piece (excluding packing)	3.6 g	
Customs tariff number	85366930	
Country of origin	CN	

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Technical data

Product properties

Product type	PCB headers	
Product family	MSTB 2,5/GU	
Product line	COMBICON Connectors M	
Туре	Standard	
Number of positions	9	
Pitch	5 mm	
Number of connections	9	
Number of rows	1	
Number of potentials	9	
Mounting type	without	
Pin layout	Linear pinning	
Solder pins per potential	1	

Electrical properties

Properties

Nominal current I _N Nominal voltage U _N Rated voltage (III/3) Rated surge voltage (III/3) Rated voltage (III/2) Rated voltage (III/2) Rated surge voltage (III/2) Rated surge voltage (III/2) Rated surge voltage (III/2) 4 kV Rated voltage (III/2) 4 kV Rated voltage (III/2) 4 kV		
Rated voltage (III/3) Rated surge voltage (III/3) Rated voltage (III/2) Rated surge voltage (III/2) Rated voltage (III/2) 4 kV Rated voltage (III/2) 4 kV	Nominal current I _N	12 A
Rated surge voltage (III/3) 4 kV Rated voltage (III/2) 320 V Rated surge voltage (III/2) 4 kV Rated voltage (II/2) 400 V	Nominal voltage U _N	320 V
Rated voltage (III/2) Rated surge voltage (III/2) Rated voltage (III/2) 4 kV 400 V	Rated voltage (III/3)	250 V
Rated surge voltage (III/2) 4 kV Rated voltage (II/2) 400 V	Rated surge voltage (III/3)	4 kV
Rated voltage (II/2) 400 V	Rated voltage (III/2)	320 V
	Rated surge voltage (III/2)	4 kV
Rated surge voltage (II/2) 4 kV	Rated voltage (II/2)	400 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	Tin-plated
Metal surface contact area (top layer)	Tin (3 - 5 µm Sn)
Metal surface contact area (middle layer)	Nickel (1.3 - 3 μm Ni)
Metal surface soldering area (top layer)	Tin (3 - 5 µm Sn)
Metal surface soldering area (middle layer)	Nickel (1.3 - 3 μm Ni)

Material data - housing



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Color (Housing)	green (6021)
Insulating material	PBT
Insulating material group	Illa
CTI according to IEC 60112	225
Flammability rating according to UL 94	V0

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.

Dimensions

Dimensional drawing	Property of the second
Pitch	5 mm
Width [w]	44.96 mm
Height [h]	10.97 mm
Length [I]	10 mm
Installed height	8.57 mm
Solder pin length [P]	3.3 mm
Pin dimensions	1 x 1 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 225	
Rated insulation voltage (III/3)	250 V	
Rated surge voltage (III/3)	4 kV	
minimum clearance value - non-homogenous field (III/3)	3 mm	
minimum creepage distance (III/3)	4 mm	
Rated insulation voltage (III/2)	320 V	
Rated surge voltage (III/2)	4 kV	
minimum clearance value - non-homogenous field (III/2)	3 mm	
minimum creepage distance (III/2)	3.2 mm	
Rated insulation voltage (II/2)	400 V	
Rated surge voltage (II/2)	4 kV	
minimum clearance value - non-homogenous field (II/2)	3 mm	



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minimum creepage distance (II/2)	4 mm
vironmental 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
Relative humidity (storage/transport)	30 % 70 %
Ambient temperature (assembly)	-5 °C 100 °C



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Approvals

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c 711 us	CULus Recognized Approval ID: E60425-19931011				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
В					
		300 V	15 A	-	-
D					
		300 V	10 A	-	-

	VDE approval of drawings Approval ID: 40050648				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine					
		250 V	12 A	-	-



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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

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	0.051 kg CO2e

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