

1938964

https://www.phoenixcontact.com/us/products/1938964

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



PCB headers, nominal cross section: 2.5 mm², color: green, rated voltage (III/2): 320 V, contact surface: Sn, contact connection type: Pin, number of potentials: 16, number of rows: 2, number of positions: 8, number of connections: 16, product range: MDSTBVHA 2,5/..-G, pitch: 5 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.9 mm, number of solder pins per potential: 1, plug-in system: COMBICON MSTB 2,5, Pin connector pattern alignment: Standard, 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
- · Conductor connection on several levels enables higher contact density

Commercial data

Item number	1938964
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AA03
Product key	AACSCG
GTIN	4017918877163
Weight per piece (including packing)	10.794 g
Weight per piece (excluding packing)	10.722 g
Customs tariff number	85366930
Country of origin	PL



https://www.phoenixcontact.com/us/products/1938964



Technical data

Product properties

Product type	PCB headers
Product family	MDSTBVHA 2,5/G
Product line	COMBICON Connectors M
Туре	Header can be aligned
Number of positions	8
Pitch	5 mm
Number of connections	16
Number of rows	2
Number of potentials	16
Mounting type	without
Pin layout	Linear pinning
Solder pins per potential	1

Electrical properties

Properties

Nominal voltage U _N	320 V
Rated voltage (III/3)	320 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	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	
Color (Housing)	green (6021)



1938964

https://www.phoenixcontact.com/us/products/1938964

Insulating material	PA
Insulating material group	I
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.
--------------------	--

Dimensions

Dimensional drawing	h p
Pitch	5 mm
Width [w]	44.5 mm
Height [h]	31.6 mm
Length [I]	23.69 mm
Installed height	27.7 mm
Solder pin length [P]	3.9 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	I
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	320 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 mm



1938964

https://www.phoenixcontact.com/us/products/1938964

Rated insulation voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV
minimum clearance value - non-homogenous field (II/2)	3 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
Relative humidity (storage/transport)	30 % 70 %
Ambient temperature (assembly)	-5 °C 100 °C

Packaging specifications

Type of packaging	packed in cardboard
.)	L



1938964

https://www.phoenixcontact.com/us/products/1938964

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1938964

CULUS Recognosci ID: E60	CULus Recognized Approval ID: E60425-19931011			
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
В				
	300 V	12 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	10 A	-	-



1938964

https://www.phoenixcontact.com/us/products/1938964

Classifications

ECLASS

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



1938964

https://www.phoenixcontact.com/us/products/1938964

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	0.102 kg CO2e

Phoenix Contact 2025 @ - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com