

2203902

https://www.phoenixcontact.com/us/products/2203902

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PCB headers, nominal cross section: 2.5 mm², color: light grey, nominal current: 16 A, rated voltage (III/2): 320 V, contact connection type: Pin, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: ICC..-H/..L5,0, pitch: 5 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.5 mm, number of solder pins per potential: 1, Pin connector pattern alignment: Standard, locking: Snap-in locking, mounting: without, type of packaging: Box packaging, Product with pin output on left side

Your advantages

- · Variable coding, for reliable protection against incorrect connection
- · Designed for integration into the wave soldering process
- · Easy and fast push-in mounting of assembled printed-circuit boards, thanks to stable guide rails
- · Quick and easily coded when initially connecting the connector and header

Commercial data

Item number	2203902
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AC09
Product key	ACHAFB
GTIN	4055626466071
Weight per piece (including packing)	5.302 g
Weight per piece (excluding packing)	3.9 g
Customs tariff number	85366930
Country of origin	PL



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Technical data

Product properties

Туре	Header perpendicular to the PCB
Product type	PCB headers
Product family	ICCH/L5,0
Number of positions	4
Pitch	5 mm
Number of connections	4
Number of rows	1
Mounting flange	without
Number of potentials	4
Pin layout	Linear pinning
Solder pins per potential	1

Electrical properties

Nominal current I _N	16 A
Nominal voltage U _N	320 V
Degree of pollution	3
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
Connection method	Plug / solder connection

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 terminal point (top layer)	Tin (2 - 4 µm Sn)
Metal surface terminal point (middle layer)	Nickel (1.3 - 3 μm Ni)
Metal surface contact area (top layer)	Tin (2 - 4 μm Sn)
Metal surface contact area (middle layer)	Nickel (1.3 - 3 μm Ni)
Metal surface soldering area (top layer)	Tin (2 - 4 µm Sn)
Metal surface soldering area (middle layer)	Nickel (1.3 - 3 μm Ni)



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Material data - housing

Color (Housing)	light grey (7035)
Insulating material	PA
Insulating material group	1
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

Assembly instruction:	Refer to the data sheet for the range in the download area.
General	Further information and detailed dimensions are available in the download area.

Dimensions

Dimensional drawing	P ₁
Pitch	5 mm
Width [w]	25 mm
Height [h]	22.4 mm
Length [I]	20.35 mm
Solder pin length [P]	3.5 mm
Pin dimensions	1 x 1 mm
PCB design	
Hole diameter	1.4 mm

Mechanical tests

Vigual	inspection
visuai	IIISDECTOLI

Result

Specification	IEC 60512-1-1:2002-02
Result	Test passed
Dimension check	
Specification	IEC 60512-1-2:2002-02
Result	Test passed
Polarization and coding	
Specification	IEC 60512-13-5:2006-02

Test passed



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Contact holder in insert

Specification	IEC 60512-15-1:2008-05
Contact holder in insert Requirements >20 N	Test passed
Insertion and withdrawal forces	
Result	Test second
	Test passed
No. of cycles	1 est passed 25
No. of cycles Insertion strength per pos. approx.	<u>'</u>

Electrical tests

Thermal test | Test group C

Specification	IEC 60512-5-1:2002-02
Tested number of positions	4

Insulation resistance

Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 30 GΩ

Air clearances and creepage distances |

Specification	IEC 60664-1:2007-04
Insulating material group	I I
Comparative tracking index (IEC 60112)	CTI 600
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)	3.2 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)	1.6 mm
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

Vibration test

Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz 60.1 Hz)
Sweep speed	5g (60.1 Hz 150 Hz)



2203902

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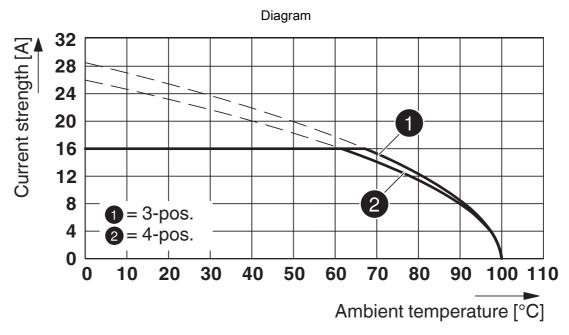
est duration per axis	2.5 h
urability test	
Specification	IEC 60512-9-1:2010-03
Insulation resistance, neighboring positions	> 30 GΩ
imatic test	
	100 0000,4005 00
Specification	ISO 6988:1985-02
Corrosive stress	0.2 dm ³ SO ₂ on 300 dm ³ /40 °C/1 cycle
Thermal stress	105 °C/168 h
Power-frequency withstand voltage	2.21 kV
mbient conditions	
Ambient temperature (operation)	-40 °C 105 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C 55 °C
Relative humidity (storage/transport)	30 % 70 %
Ambient temperature (assembly)	-5 °C 100 °C
kaging specifications	
Type of packaging	Box packaging
Outer packaging type	Carton

2203902

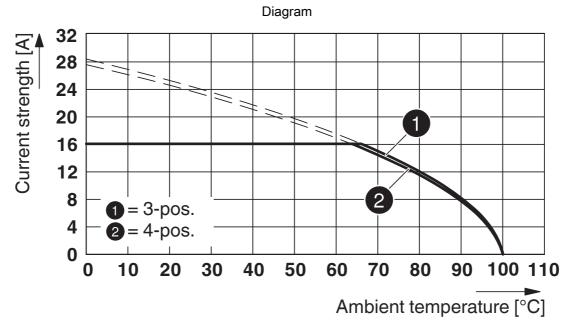
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Drawings



Type: PSPT 2,5/...-ST ... with ICC20(25)-H/...L(R)5,0-...



Type: MSTBT 2,5 HC/...-STF with ICC20(25)-H/...L(R)5,0-...



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2203902

e 911 us	cULus Recognized Approval ID: E60425-20181123				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use grou	ір В				
		300 V	16 A	-	-



2203902

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Classifications

UNSPSC 21.0

ECLASS

EC	CLASS-11.0	27460201
EC	CLASS-12.0	27460201
EC	CLASS-13.0	27460201
ETIM		
ET	TIM 9.0	EC002637
UNSP	SC	

39121400



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Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values



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Accessories

PSPT 2,5/ 4-ST KMGY - Printed-circuit board connector

2202344

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PCB connector, nominal cross section: 2.5 mm², color: light grey, nominal current: 16 A, rated voltage (III/2): 300 V, contact surface: Tin, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: PSPT 2,5/..-ST, pitch: 5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, locking: without, mounting: without, type of packaging: packed in cardboard, Color of the spring lever: orange

MSTBT 2,5 HC/ 4-STP GY7035 - Printed-circuit board connector

2200332

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PCB connector, nominal cross section: 2.5 mm², color: light grey, nominal current: 16 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of rows: 1, number of positions: 4, product range: MSTBT 2,5 HC/..-STP, pitch: 5 mm, connection method: Screw connection with tension sleeve, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5 HC, locking: without, mounting: without

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