PCB header - PCV 4/ 2-G-7,62

1804687

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PCB headers, nominal cross section: 4 mm^2, color: green, nominal current: 20 A, rated voltage (III/2): 630 V, contact surface: Tin, type of contact: Male connector, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: PCV 4/..-G, pitch: 7.62 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 5 mm, number of solder pins per potential: 2, plug-in system: COMBICON PC 4, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: packed in cardboard, Mounting flange: Accessory Item No. 1827570

Your advantages

- Well-known mounting principle allows worldwide use

Commercial Data

Item number	1804687
Packing unit	1 pc
Minimum order quantity	50 pc
Sales Key	A02
Product Key	AADSAD
Catalog Page	Page 517 (C-1-2013)
GTIN	4017918046125
Weight per Piece (including packing)	4.256 g
Weight per Piece (excluding packing)	3.806 g
Customs tariff number	85366930
Country of origin	DE

Technical Data

Product properties

Type	Standard
Product line	COMBICON Connectors L
Product type	PCB headers
Number of positions	2
Pitch	7.62 mm
Number of connections	2
Number of rows	1
Mounting flange	without
Number of potentials	2
Pin layout	Linear pinning
Solder pins per potential	2

Electrical properties

Nominal current I_N	20 A
Nominal voltage U_N	630 V
Degree of pollution	3
Rated voltage (III/3)	400 V
Rated surge voltage (III/3)	6 kV
Rated voltage (III/2)	630 V
Rated surge voltage (III/2)	6 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 (5 - 10 µm Sn)
Metal surface contact area (middle layer)	Nickel (2 - 5 µm Ni)
Metal surface soldering area (top layer)	Tin (5 - 10 µm Sn)
Metal surface soldering area (middle layer)	Nickel (2 - 5 µm Ni)

Material data - housing

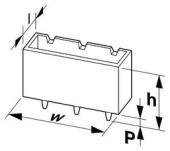
Housing color	green (6021)
Insulating material	PA
Insulating material group	I
CTI according to IEC 60112	600

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	
Pitch	7.62 mm
Width [w]	15.2 mm
Height [h]	34 mm
Length [l]	11 mm
Installed height	29 mm
Solder pin length [P]	5 mm

PCB design

Pin spacing	7.62 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)	400 V
Rated surge voltage (III/3)	6 kV
minimum clearance value - non-homogenous field (III/3)	5.5 mm
minimum creepage distance (III/3)	5.5 mm
Rated insulation voltage (III/2)	630 V
Rated surge voltage (III/2)	6 kV
minimum clearance value - non-homogenous field (III/2)	5.5 mm
minimum creepage distance (III/2)	5.5 mm
Rated insulation voltage (II/2)	630 V
Rated surge voltage (II/2)	6 kV
minimum clearance value - non-homogenous field (II/2)	5.5 mm
minimum creepage distance (II/2)	5.5 mm

Environmental and real-life conditions

Ambient conditions

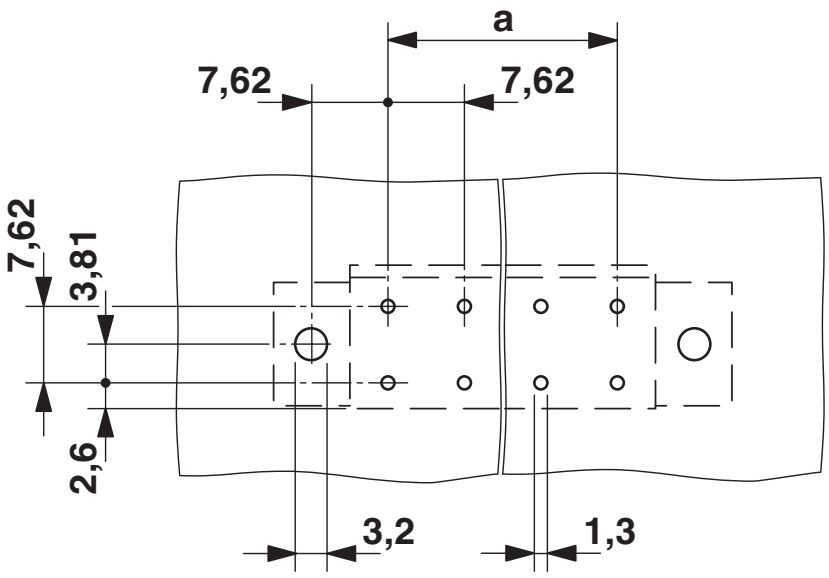
Ambient temperature (operation)	-40 °C ... 100 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Relative humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 100 °C

Packaging specifications

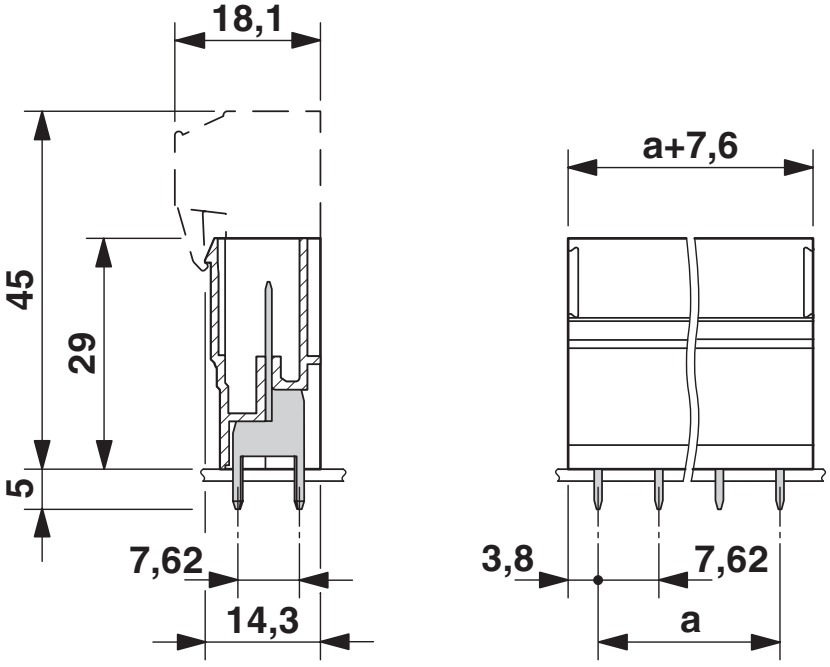
Type of packaging	packed in cardboard

Drawings

Drilling plan/solder pad geometry



Dimensional drawing



Approvals

CSA
Approval ID: 13631

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
Use group B				
	300 V	20 A	-	-
Use group C				
	300 V	20 A	-	-

EAC
Approval ID: B.01687

cULus Recognized
Approval ID: E60425-19920722

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
Use group B				
	300 V	30 A	-	-
Use group C				
	300 V	30 A	-	-

DNV GL
Approval ID: TAE00001EZ

LR
Approval ID: LR21308805TA

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
			-	-

RS
Approval ID: 17.00014.272

BV
Approval ID: 35433/B0 BV

Classifications

ECLASS

ECLASS-9.0	27440402
ECLASS-10.0.1	27440402
ECLASS-11.0	27460201

ETIM

ETIM 8.0	EC002637

UNSPSC

UNSPSC 21.0	39121400

Environmental Product Compliance

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

Accessories

Mounting flange

Mounting flange - BF-PC 4 - 1827570

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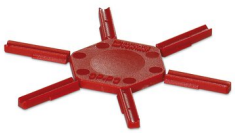


Mounting flange, is snapped onto the left and right of the headers, for screw connection with PC 4/...-STF-7.62

Coding profile

Coding profile - CP-PC RD - 1701967

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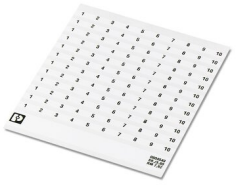


Coding profile, for plugging into the coding ribs of the plug at a later date, insulating material, color: Red

Marker card

Marker card - SK 7,62/3,8:FORTL.ZAHLEN - 0804549

https://www.phoenixcontact.com/us/products/0804549



Marker card, white, labeled, horizontal: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: adhesive, for terminal block width: 7.62 mm, lettering field size: 7.62 x 3.8 mm

Marker card

Marker card - SK U/3,8 WH:UNBEDRUCKT - 0803906

https://www.phoenixcontact.com/us/products/0803906



Marker card, Sheet, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, lettering field size: 186 x 3.8 mm, Number of individual labels: 1440

PCB connector

PCB connector - PC 4/ 2-ST-7,62 - 1804904

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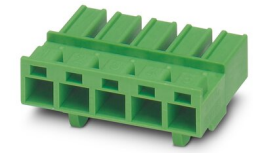


PCB connector, nominal cross section: 4 mm^2, color: green, nominal current: 20 A, rated voltage (III/2): 630 V, contact surface: Tin, type of contact: Female connector, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: PC 4/..-ST, pitch: 7.62 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON PC 4, locking: without, mounting: without, type of packaging: packed in cardboard

PCB connector

PCB connector - PCC 4/ 2-ST-7,62 - 1840191

https://www.phoenixcontact.com/us/products/1840191



PCB connector, nominal cross section: 4 mm^2, color: green, nominal current: 20 A, rated voltage (III/2): 1000 V, type of contact: Female connector, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: PCC 4/..-ST, pitch: 7.62 mm, connection method: Crimp connection, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON PC 4, locking: without, mounting: without, type of packaging: packed in cardboard, Corresponding female crimp contacts with current [A] and conductor cross section range [mm^2] data: 13,5A/STG-MTN 0,5-1,0 (3190438); 13,5A/STG-MTN 0,5-1,0 BA (3190629); 20A/STG-MTN 1,5-2,5 (3190506); 20A/STG-MTN 1,5-2,5 BA (3190632). BA = Taped contacts

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