

PC 6/ 5-GU-7,62 - PCB header



1136003

<https://www.phoenixcontact.com/us/products/1136003>

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PCB headers, nominal cross section: 6 mm², color: green, nominal current: 41 A, rated voltage (III/2): 630 V, contact surface: Tin, contact connection type: Pin, number of potentials: 5, number of rows: 1, number of positions: 5, number of connections: 5, product range: PC 6/..-GU, pitch: 7.62 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 2.6 mm, number of solder pins per potential: 3, plug-in system: COMBICON PC 6, Pin connector pattern alignment: reversed, locking: without, mounting: without, type of packaging: packed in cardboard

Your advantages

- Increased touch protection in the pin connector pattern for maximum safety even when not plugged in
- Easy PCB replacement thanks to plug-in modules
- Well-known mounting principle allows worldwide use

Commercial data

Item number	1136003
Packing unit	1 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AA04
Product key	AADSDJ
GTIN	4063151070489
Weight per piece (including packing)	12.25 g
Weight per piece (excluding packing)	12.25 g
Customs tariff number	85366930
Country of origin	CN

PC 6/ 5-GU-7,62 - PCB header



1136003

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Technical data

Product properties

Product line	COMBICON Connectors L
Product type	PCB headers
Product family	PC 6/..-GU
Number of positions	5
Pitch	7.62 mm
Number of connections	5
Number of rows	1
Mounting flange	without
Number of potentials	5
Pin layout	Linear pinning
Solder pins per potential	3

Electrical properties

Nominal current I_N	41 A
Nominal voltage U_N	630 V
Degree of pollution	3
Rated voltage (III/3)	630 V
Rated surge voltage (III/3)	6 kV
Rated voltage (III/2)	630 V
Rated surge voltage (III/2)	6 kV
Rated voltage (II/2)	1000 V
Rated surge voltage (II/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 (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)

Material data - housing

Color (Housing)	green (6021)
Insulating material	PA GF

PC 6/ 5-GU-7,62 - PCB header

1136003

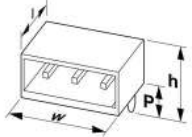
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Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0

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.
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Dimensions

Dimensional drawing	
Pitch	7.62 mm
Width [w]	38.5 mm
Height [h]	16.1 mm
Length [l]	28.2 mm
Installed height	13.5 mm
Solder pin length [P]	2.6 mm
Pin dimensions	0.8 x 1 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)	630 V
Rated surge voltage (III/3)	6 kV
minimum clearance value - non-homogenous field (III/3)	5.5 mm
minimum creepage distance (III/3)	8 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)	1000 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

PC 6/ 5-GU-7,62 - PCB header



1136003

<https://www.phoenixcontact.com/us/products/1136003>

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
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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1136003>



EAC

Approval ID: B.01687



VDE Zeichengenehmigung

Approval ID: 40050635

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	630 V	41 A	-	-



cULus Recognized

Approval ID: E60425-20010727

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B				
	300 V	35 A	-	-
Use group C				
	300 V	35 A	-	-
Use group F				
	600 V	35 A	-	-
Use group D				
	600 V	5 A	-	-

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1136003

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Classifications

ECLASS

ECLASS-11.0	27460201
ECLASS-12.0	27460201
ECLASS-13.0	27460201

ETIM

ETIM 8.0	EC002637
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UNSPSC

UNSPSC 21.0	39121400
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PC 6/ 5-GU-7,62 - PCB header



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Environmental product compliance

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

PC 6/ 5-GU-7,62 - PCB header

1136003

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Accessories

CP-PC RD - Coding profile

1701967

<https://www.phoenixcontact.com/us/products/1701967>

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



LPC 6/ 5-ST-7,62 - PCB connector

1716925

<https://www.phoenixcontact.com/us/products/1716925>

PCB connector, nominal cross section: 6 mm², color: green, nominal current: 41 A, rated voltage (III/2): 1000 V, contact surface: Tin, contact connection type: Socket, number of potentials: 5, number of rows: 1, number of positions: 5, number of connections: 5, product range: LPC 6/..-ST, pitch: 7.62 mm, connection method: Lever Push-in connection, conductor/PCB connection direction: 0 °, locking clip: - without locking clip, plug-in system: COMBICON PC 6, locking: without, mounting: without, type of packaging: packed in cardboard



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