

# MCO 1,5/ 4-GL-3,81 - PCB header



1861743

<https://www.phoenixcontact.com/us/products/1861743>

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PCB headers, nominal cross section: 1.5 mm<sup>2</sup>, color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Pin, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: MCO 1,5/...-GL, pitch: 3.81 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3 mm, number of solder pins per potential: 1, plug-in system: COMBICON MC 1,5, locking: without, mounting: 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

## Commercial data

Item number	1861743
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AA02
Product key	AABSOA
Catalog page	Page 230 (C-1-2013)
GTIN	4017918133511
Weight per piece (including packing)	2.115 g
Weight per piece (excluding packing)	2.042 g
Customs tariff number	85366930
Country of origin	PL

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## Technical data

### Product properties

Type	Header perpendicular to the PCB
Product line	COMBICON Connectors S
Product type	PCB headers
Product family	MCO 1,5/...-GL
Number of positions	4
Pitch	3.81 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 $I_N$	8 A
Nominal voltage $U_N$	160 V
Degree of pollution	3
Rated voltage (III/3)	125 V
Rated surge voltage (III/3)	2.5 kV
Rated voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
Rated voltage (II/2)	200 V
Rated surge voltage (II/2)	2.5 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
Metal surface contact area (top layer)	Tin (5 - 7 $\mu\text{m}$ Sn)
Metal surface soldering area (top layer)	Tin (5 - 7 $\mu\text{m}$ Sn)

#### Material data - housing

Color (Housing)	green (6021)
Insulating material	PBT
Insulating material group	IIIa
CTI according to IEC 60112	225

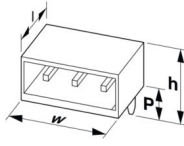
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Flammability rating according to UL 94	V0
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## Dimensions

Dimensional drawing	
Pitch	3.81 mm
Width [w]	16.63 mm
Height [h]	10.25 mm
Length [l]	28.5 mm
Installed height	7.25 mm
Solder pin length [P]	3 mm
Pin dimensions	0.9 x 0.32 mm

## PCB design

Hole diameter	1.2 mm
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## Electrical tests

### Air clearances and creepage distances |

Insulating material group	IIIa
Rated insulation voltage (III/3)	125 V
Rated surge voltage (III/3)	2.5 kV
Rated insulation voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
Rated insulation voltage (II/2)	200 V
Rated surge voltage (II/2)	2.5 kV

## Packaging specifications

Type of packaging	packed in cardboard
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## Classifications

### ECLASS

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

### ETIM

ETIM 9.0	EC002637
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### UNSPSC

UNSPSC 21.0	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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