

1999181
<https://www.phoenixcontact.com/us/products/1999181>

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: 1.5 mm², color: gray, nominal current: 8 A, contact surface: Sn, contact connection type: Pin, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: MC 1,5/..-G, pitch: 3.81 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.4 mm, number of solder pins per potential: 1, plug-in system: COMBICON MC 1,5, Pin connector pattern alignment: Standard, locking: without, mounting method: without, type of packaging: packed in cardboard

Your advantages

- Well-known mounting principle allows worldwide use
- Maximum flexibility when it comes to device design – one header for connectors with different connection technologies

Commercial data

Item number	1999181
Packing unit	250 pc
Minimum order quantity	250 pc
Note	Made to order (non-returnable)
Product key	AABSBA
GTIN	4017918965518
Weight per piece (including packing)	1.27 g
Weight per piece (excluding packing)	1.001 g
Country of origin	DE

MC 1,5/ 4-G-3,81 GY NZ 870A-A2 - PCB header



1999181

<https://www.phoenixcontact.com/us/products/1999181>

Technical data

Product properties

Product type	PCB headers
Product family	MC 1,5/...-G
Product line	COMBICON Connectors S
Number of positions	4
Pitch	3.81 mm
Number of connections	4
Number of rows	1
Number of potentials	4
Mounting type	without
Pin layout	Linear pinning
Solder pins per potential	1

Electrical properties

Properties

Nominal current I_N	8 A
Nominal voltage U_N	160 V

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)	gray (7042)
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

MC 1,5/ 4-G-3,81 GY NZ 870A-A2 - PCB header



1999181

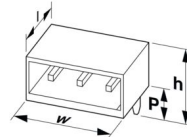
<https://www.phoenixcontact.com/us/products/1999181>

Temperature for the ball pressure test according to EN 60695-10-2

125 °C

Dimensions

Dimensional drawing



Pitch

3.81 mm

Width [w]

16.63 mm

Height [h]

10.65 mm

Length [l]

9.2 mm

Installed height

7.25 mm

Solder pin length [P]

3.4 mm

Pin dimensions

0.8 x 0.8 mm

PCB design

Hole diameter

1.2 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

MC 1,5/ 4-G-3,81 GY NZ 870A-A2 - PCB header



1999181

<https://www.phoenixcontact.com/us/products/1999181>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1999181>

 CSA Approval ID: 13631				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B	300 V	8 A	-	-
D				
	300 V	8 A	-	-

 cULus Recognized Approval ID: E60425-20110128				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B	300 V	8 A	-	-
D				
	300 V	8 A	-	-

 VDE approval of drawings Approval ID: 40011723				
--	--	--	--	--

 VDE approval of drawings Approval ID: 40011723				
--	--	--	--	--

MC 1,5/ 4-G-3,81 GY NZ 870A-A2 - PCB header



1999181

<https://www.phoenixcontact.com/us/products/1999181>

Classifications

ECLASS

ECLASS-13.0	27460201
ECLASS-15.0	27460201

ETIM

ETIM 9.0	EC002637
----------	----------

UNSPSC

UNSPSC 21.0	39121400
-------------	----------

MC 1,5/ 4-G-3,81 GY NZ 870A-A2 - PCB header



1999181
<https://www.phoenixcontact.com/us/products/1999181>

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%

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