

QC 1/ 2-ST-5,08 - PCB connector

1883255

<https://www.phoenixcontact.com/gb/products/1883255>



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 connector, nominal cross section: 1 mm², color: green, nominal current: 10 A, rated voltage (III/2): 630 V, contact surface: Sn, contact connection type: Socket, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: QC 1/..-ST, pitch: 5.08 mm, connection method: Displacement connection, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting method: without, type of packaging: packed in cardboard

Your advantages

- Connection without conductor pretreatment for huge time savings
- Can be combined with the MSTB 2,5 range

Commercial data

Item number	1883255
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AACQBA
Product key	AACQBA
Catalog page	Page 290 (C-1-2013)
GTIN	4017918157715
Weight per piece (including packing)	3.836 g
Weight per piece (excluding packing)	3.487 g
Customs tariff number	85366990
Country of origin	SK

QC 1/ 2-ST-5,08 - PCB connector

1883255

<https://www.phoenixcontact.com/gb/products/1883255>



Technical data

Product properties

Product type	PCB connector
Product family	QC 1/..-ST
Product line	COMBICON Connectors M
Type	Standard
Number of positions	2
Pitch	5.08 mm
Number of connections	2
Number of rows	1
Number of potentials	2
Mounting flange	without

Electrical properties

Properties

Nominal current I_N	10 A
Nominal voltage U_N	630 V
Rated voltage (III/3)	500 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

Connection data

Connection technology

Type	Standard
Connector system	COMBICON MSTB 2,5
Nominal cross section	1 mm ²
Contact connection type	Socket

Interlock

Locking type	without
Mounting flange	without

Conductor connection

Connection method	Displacement connection
Conductor/PCB connection direction	0 °
Conductor cross section flexible	0.5 mm ² ... 1 mm ²
Conductor cross section AWG	20 ... 18

Material specifications

QC 1/ 2-ST-5,08 - PCB connector

1883255

<https://www.phoenixcontact.com/gb/products/1883255>



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	hot-dip tin-plated
Metal surface terminal point (top layer)	Tin (4 - 8 µm Sn)
Metal surface contact area (top layer)	Tin (4 - 8 µm Sn)

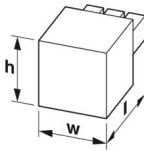
Material data - housing

Color (Housing)	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

Material data – actuating element

Color (Actuating element)	orange (2003)
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

Dimensions

Dimensional drawing	
Pitch	5.08 mm
Width [w]	10.98 mm
Height [h]	15 mm
Length [l]	33.8 mm

Notes

QC 1/ 2-ST-5,08 - PCB connector

1883255

<https://www.phoenixcontact.com/gb/products/1883255>



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.

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

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)	500 V
Rated surge voltage (III/3)	6 kV
minimum clearance value - non-homogenous field (III/3)	5.5 mm
minimum creepage distance (III/3)	6.3 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

Packaging specifications

Type of packaging	packed in cardboard
-------------------	---------------------

QC 1/ 2-ST-5,08 - PCB connector


1883255


<https://www.phoenixcontact.com/gb/products/1883255>



Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/1883255>

	VDE approval of drawings			
	Approval ID: 40050648			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG
		250 V	10 A	-
				Cross section mm ²
				0.75 - 1

	cULus Recognized			
	Approval ID: E60425-20000125			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG
Use group B				Cross section mm ²
		300 V	10 A	20 - 16
				-
Use group C				
		300 V	10 A	20 - 16
				-

QC 1/ 2-ST-5,08 - PCB connector

1883255

<https://www.phoenixcontact.com/gb/products/1883255>



Classifications

ECLASS

ECLASS-13.0	27460202
-------------	----------

ETIM

ETIM 9.0	EC002638
----------	----------

UNSPSC

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

QC 1/ 2-ST-5,08 - PCB connector

1883255

<https://www.phoenixcontact.com/gb/products/1883255>



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%
EF3.0 Climate Change	
CO2e kg	0.052 kg CO2e

Phoenix Contact 2025 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT Ltd
Halesfield 13, Telford
Shropshire, TF7 4PG
01952 681700
info@phoenixcontact.co.uk