

# ICC 2,5/10-STZ-5,08 - PCB connector



1823927

<https://www.phoenixcontact.com/us/products/1823927>

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PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact connection type: Pin, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: ICC 2,5/..-STZ, pitch: 5.08 mm, connection method: Crimp connection, conductor/PCB connection direction: 0 °, locking clip: - without locking clip, plug-in system: COMBICON MSTB 2,5, locking: Snap-in locking, mounting: Engagement nose, type of packaging: packed in cardboard, Corresponding male crimp contacts with current [A] and conductor cross section range [mm<sup>2</sup>] data: 10A/ICC-MT 0,5-1,0 (3190577); 10A/ICC-MT 0,5-1,0 BA (3190603); 12A/ICC-MT 1,5-2,5 (3190580); 12A/ICC-MT 1,5-2,5 BA (3190593). BA = Bandkontakte

## Your advantages

- Inexpensive connection of large quantities of preassembled conductors
- Pull-out aid facilitates handling and allows the tensile force to be reduced at the contact point
- Can be combined with the MSTB 2,5 range
- Intuitive locking mechanism prevents accidental disconnection

## Commercial data

Item number	1823927
Packing unit	50 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	AACCBA
Catalog page	Page 296 (C-1-2013)
GTIN	4017918048778
Weight per piece (including packing)	6.202 g
Weight per piece (excluding packing)	5.661 g
Country of origin	PL

# ICC 2,5/10-STZ-5,08 - PCB connector



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## Technical data

### Product properties

Product type	PCB connector
Product family	ICC 2,5/...STZ
Product line	COMBICON Connectors M
Type	Inverted
Number of positions	10
Pitch	5.08 mm
Number of connections	10
Number of rows	1
Number of potentials	10
Mounting flange	without

### Electrical properties

Nominal current $I_N$	12 A
Nominal voltage $U_N$	320 V
Degree of pollution	3
Rated voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
Rated voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
Rated voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV

### Connection data

#### Connection technology

Type	Inverted
Connector system	COMBICON MSTB 2,5
Nominal cross section	2.5 mm <sup>2</sup>
Contact connection type	Pin

#### Interlock

Locking type	Snap-in locking
Mounting flange	Engagement nose

#### Conductor connection

Connection method	Crimp connection
Conductor/PCB connection direction	0 °
Conductor cross section flexible	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section AWG	20 ... 14

### Material specifications

# ICC 2,5/10-STZ-5,08 - PCB connector



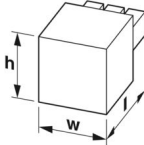
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## Material data - housing

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

## Dimensions

Dimensional drawing	
Pitch	5.08 mm
Width [w]	56.59 mm
Height [h]	10.6 mm
Length [l]	28.1 mm

## 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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## Electrical tests

### Air clearances and creepage distances |

Insulating material group	I
Rated insulation voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
Rated insulation voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
Rated insulation voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV

## Packaging specifications

Type of packaging	packed in cardboard
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# ICC 2,5/10-STZ-5,08 - PCB connector

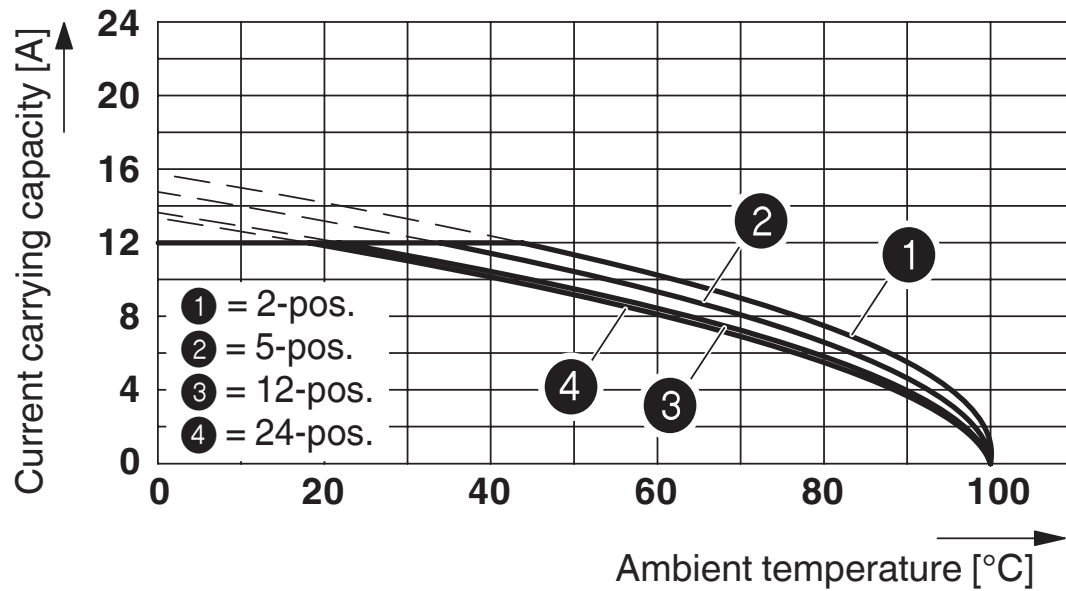
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<https://www.phoenixcontact.com/us/products/1823927>



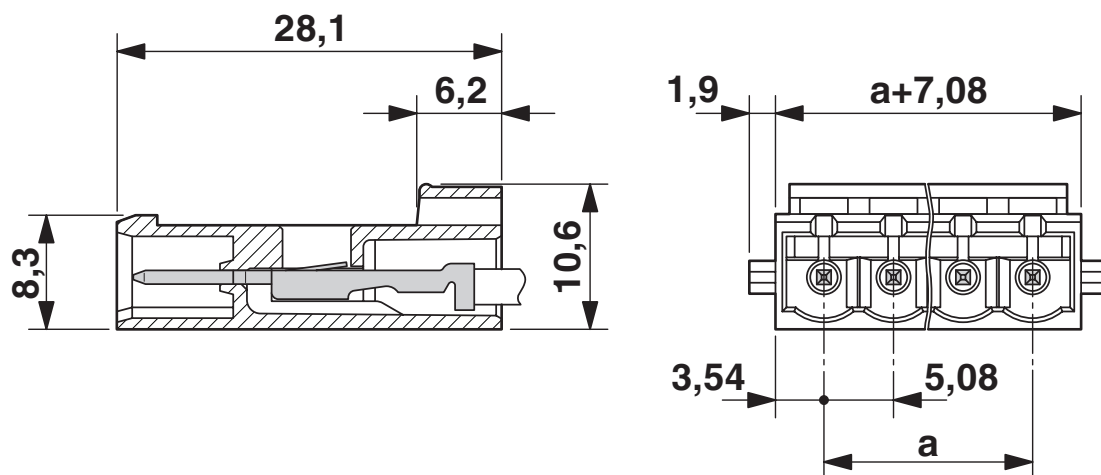
## Drawings

Diagram



Type: ICC 2,5/...-ST-5,08 with IC 2,5/...-G-5,08; contact: ICC-MT 1,5 - 2,5

Dimensional drawing



# ICC 2,5/10-STZ-5,08 - PCB connector





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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1823927>

 <b>cULus Recognized</b> Approval ID: E60425-19930525				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
Use group B				
	300 V	10 A	20 - 14	-
Use group D				
	300 V	10 A	20 - 14	-

 <b>CSA</b> Approval ID: 13631				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
Use group B				
	300 V	10 A	20 - 14	-
Use group D				
	300 V	10 A	20 - 14	-

 <b>VDE Zeichengenehmigung</b> Approval ID: 40050648				
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# ICC 2,5/10-STZ-5,08 - PCB connector



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## Classifications

### ECLASS

ECLASS-11.0	27460202
ECLASS-12.0	27460202
ECLASS-13.0	27460202

### ETIM

ETIM 9.0	EC002638
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### UNSPSC

UNSPSC 21.0	39121400
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# ICC 2,5/10-STZ-5,08 - PCB connector



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## 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%

# ICC 2,5/10-STZ-5,08 - PCB connector



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## Accessories

### ICC-MT 0,5-1,0 - Crimp contact

3190577

<https://www.phoenixcontact.com/us/products/3190577>



Module male contact, is inserted into the ICC connector shell after the conductor has been crimped, for conductors from 0.5-1.0 mm<sup>2</sup>

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### ICC-MT 0,5-1,0 BA - Crimp contact

3190603

<https://www.phoenixcontact.com/us/products/3190603>



Module male contact, is inserted into the ICC connector shell after the conductor has been crimped, for conductors from 0.5-1.0 mm<sup>2</sup>, ribbon contact



## ICC 2,5/10-STZ-5,08 - PCB connector

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### ICC-MT 1,5-2,5 - Crimp contact

3190580

<https://www.phoenixcontact.com/us/products/3190580>



Module male contact, is inserted into the ICC connector shell after the conductor has been crimped, for conductors from 1.5-2.5 mm<sup>2</sup>

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### ICC-MT 1,5-2,5 BA - Crimp contact

3190593

<https://www.phoenixcontact.com/us/products/3190593>



Module male contact, is inserted into the ICC connector shell after the conductor has been crimped, for conductors from 1.5-2.5 mm<sup>2</sup>, ribbon contact

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## CRIMPFOX MT 2,5 - Crimping pliers

1204038

<https://www.phoenixcontact.com/us/products/1204038>



Crimping pliers, for crimping conductors to the module female contacts STG-MTN, crimp range: 0.5-2.5 mm<sup>2</sup>, AWG: 20-14

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## SZS 0,4X2,5 VDE - Screwdriver

1205037

<https://www.phoenixcontact.com/us/products/1205037>



Screwdriver, slot-headed, VDE insulated, size: 0.4 x 2.5 x 80 mm, 2-component grip, with non-slip grip

# ICC 2,5/10-STZ-5,08 - PCB connector



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## STZ 2-MSTBC-5,08 - Strain relief

1810529

<https://www.phoenixcontact.com/us/products/1810529>



Strain relief for snapping into the latching chambers of the plug components, 2-pos., labeling with ZB 6

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## STZ 4-MSTBC-5,08 - Strain relief

1810532

<https://www.phoenixcontact.com/us/products/1810532>



Strain relief for snapping into the latching chambers of the plug components, 4-pos., labeling with ZB 6

# ICC 2,5/10-STZ-5,08 - PCB connector



1823927

<https://www.phoenixcontact.com/us/products/1823927>

## STZ 8-MSTBC-5,08 - Strain relief

1810516

<https://www.phoenixcontact.com/us/products/1810516>



Strain relief for snapping into the latching chambers of the plug components, 8-pos., labeling with ZB 6

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## STZ 12-MSTBC-5,08 - Strain relief

1810503

<https://www.phoenixcontact.com/us/products/1810503>



Strain relief for snapping into the latching chambers of the plug components, 12-pos., labeling with ZB 6

## ICC 2,5/10-STZ-5,08 - PCB connector

1823927

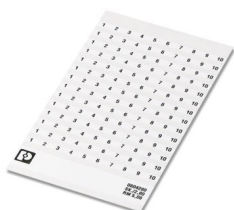
<https://www.phoenixcontact.com/us/products/1823927>



## SK 5,08/2,8:FORTL.ZAHLEN - Marker card

0804280

<https://www.phoenixcontact.com/us/products/0804280>

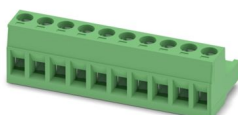


Marker card, white, labeled, horizontal: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... (99)100, mounting type: adhesive, for terminal block width: 5.08 mm, lettering field size: 5.08 x 2.8 mm

## MSTB 2,5/10-ST-5,08 - PCB connector

1757093

<https://www.phoenixcontact.com/us/products/1757093>



PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: MSTB 2,5/..-ST, pitch: 5.08 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 MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

# ICC 2,5/10-STZ-5,08 - PCB connector

1823927

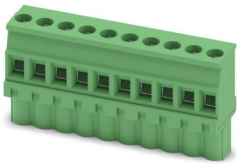
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## MVSTBW 2,5/10-ST-5,08 - PCB connector

1792838

<https://www.phoenixcontact.com/us/products/1792838>



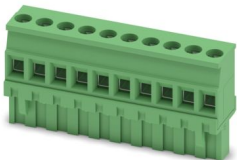
PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: MVSTBW 2,5/...-ST, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: -90 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

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## MVSTBR 2,5/10-ST-5,08 - PCB connector

1792320

<https://www.phoenixcontact.com/us/products/1792320>



PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: MVSTBR 2,5/...-ST, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 90 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

## ICC 2,5/10-STZ-5,08 - PCB connector

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### FRONT-MSTB 2,5/10-ST-5,08 - PCB connector

1777361

<https://www.phoenixcontact.com/us/products/1777361>



PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: FRONT-MSTB 2,5/...-ST, pitch: 5.08 mm, connection method: Front screw connection, screw head form: L Slotted, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

### MSTBP 2,5/10-ST-5,08 - PCB connector

1769094

<https://www.phoenixcontact.com/us/products/1769094>



PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: MSTBP 2,5/...-ST, pitch: 5.08 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 MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

# ICC 2,5/10-STZ-5,08 - PCB connector

1823927

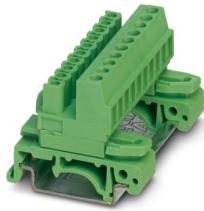
<https://www.phoenixcontact.com/us/products/1823927>



## UMSTBVK 2,5/10-ST-5,08 - DIN rail connector

1833894

<https://www.phoenixcontact.com/us/products/1833894>



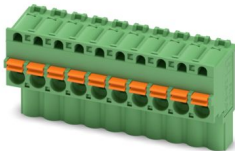
DIN rail connector, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: UMSTBVK 2,5/...-ST, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, mounting: DIN rail, conductor/PCB connection direction: 0 °, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

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## FKCVW 2,5/10-ST-5,08 - PCB connector

1873731

<https://www.phoenixcontact.com/us/products/1873731>



PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: FKCVW 2,5/...-ST, pitch: 5.08 mm, connection method: Push-in spring connection, conductor/PCB connection direction: -90 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard



# ICC 2,5/10-STZ-5,08 - PCB connector

1823927

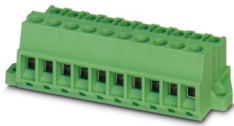
<https://www.phoenixcontact.com/us/products/1823927>



## MSTBU 2,5/10-STD-5,08 - PCB connectors

1824201

<https://www.phoenixcontact.com/us/products/1824201>



Direct plug-in block, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: MSTBU 2,5/...-STD, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, mounting: Direct mounting, conductor/PCB connection direction: 0 °, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

## MSTBC 2,5/10-ST-5,08 - PCB connector

1808890

<https://www.phoenixcontact.com/us/products/1808890>



PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact connection type: Socket, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: MSTBC 2,5/...-ST, pitch: 5.08 mm, connection method: Crimp connection, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard, Corresponding female crimp contacts with current [A] and conductor cross section range [mm<sup>2</sup>] data: 10A/MSTBC-MT 0,5-1,0 (3190564); 10A/MSTBC-MT 0,5-1,0 BA (3190645); 12A/MSTBC-MT 1,5-2,5 (3190551); 12A/MSTBC-MT 1,5-2,5 BA (3190658). BA = Bandkontakte

## ICC 2,5/10-STZ-5,08 - PCB connector

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### IC 2,5/10-G-5,08 - PCB header

1786488

<https://www.phoenixcontact.com/us/products/1786488>

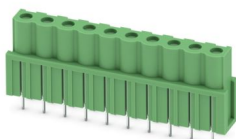


PCB headers, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: IC 2,5/...-G, pitch: 5.08 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.5 mm, number of solder pins per potential: 2, plug-in system: COMBICON MSTB 2,5, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: packed in cardboard

### ICV 2,5/10-G-5,08 - PCB header

1786022

<https://www.phoenixcontact.com/us/products/1786022>



PCB headers, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: ICV 2,5/...-G, pitch: 5.08 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.6 mm, number of solder pins per potential: 2, plug-in system: COMBICON MSTB 2,5, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: packed in cardboard

# ICC 2,5/10-STZ-5,08 - PCB connector

1823927

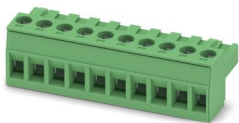
<https://www.phoenixcontact.com/us/products/1823927>



## MSTBT 2,5/10-ST-5,08 - PCB connector

1781069

<https://www.phoenixcontact.com/us/products/1781069>



PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: MSTBT 2,5/..-ST, pitch: 5.08 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 MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

## MSTB 2,5/10-STZ-5,08 - PCB connector

1764303

<https://www.phoenixcontact.com/us/products/1764303>



PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: MSTB 2,5/..-ST, pitch: 5.08 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 MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

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