

https://www.phoenixcontact.com/us/products/1769829



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PCB headers, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 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: SMSTBA 2,5/..-G, pitch: 5 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.5 mm, number of solder pins per potential: 1, plug-in system: COMBICON MSTB 2,5, Pin connector pattern alignment: Standard, 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
- · Well-known mounting principle allows worldwide use
- · Angled connection enables multi-row arrangement on the PCB

Commercial data

Item number	1769829
Packing unit	100 pc
Minimum order quantity	100 pc
Sales key	AA03
Product key	AACSGO
Catalog page	Page 319 (C-1-2013)
GTIN	4017918035044
Weight per piece (including packing)	2.573 g
Weight per piece (excluding packing)	2.5 g
Customs tariff number	85366930
Country of origin	DE



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Technical data

Product properties

Product type	PCB headers
Product family	SMSTBA 2,5/G
Product line	COMBICON Connectors M
Туре	Standard
Number of positions	4
Pitch	5 mm
Number of connections	4
Number of rows	1
Number of potentials	4
Mounting flange	without
Pin layout	Linear pinning
Solder pins per potential	1

Electrical properties

Nominal current I _N	12 A
Nominal voltage U _N	320 V
Degree of pollution	3
Contact resistance	$2.3~\text{m}\Omega$
Rated voltage (III/3)	320 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

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 (5 - 7 μm Sn)
Metal surface contact area (middle layer)	Nickel (2 - 3 µm Ni)
Metal surface soldering area (top layer)	Tin (5 - 7 μm Sn)
Metal surface soldering area (middle layer)	Nickel (2 - 3 µm Ni)

Material data - housing



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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

Notes

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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.

Dimensions

Dimensional drawing	P ₁ h
Pitch	5 mm
Width [w]	22 mm
Height [h]	18.3 mm
Length [I]	16.5 mm
Installed height	14.8 mm
Solder pin length [P]	3.5 mm
Pin dimensions	1 x 1 mm
PCB design	
Hole diameter	1.4 mm

Mechanical tests

Visual inspection

Result

Specification	IEC 60512-1-1:2002-02
Result	Test passed
Dimension check	
Difference of the Control of the Con	
Specification	IEC 60512-1-2:2002-02
Result	Test passed
Resistance of inscriptions	
Specification	IEC 60068-2-70:1995-12

Test passed



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Polarization and coding

Specification	IEC 60512-13-5:2006-02
Result	Test passed
Contact holder in insert	
Specification	IEC 60512-15-1:2008-05
Contact holder in insert Requirements >20 N	Test passed
Insertion and withdrawal forces	
Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	11 N

6 N

Electrical tests

Thermal test | Test group C

Specification	IEC 60512-5-1:2002-02
Tested number of positions	24
Insulation resistance	

Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ

Air clearances and creepage distances |

Withdraw strength per pos. approx.

IEC 60664-1:2007-04 Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3) Rated insulation voltage (III/2) Rated surge voltage (III/2) Rated surge voltage (III/2) Rated insulation voltage (III/2) Rated surge voltage (III/2) Rated surge voltage (III/2) Rated surge voltage (III/2) Rated insulation voltage (III/2) minimum creepage distance (III/2) Rated insulation voltage (III/2)		
Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3) Rated insulation voltage (III/2) Rated surge voltage (III/2) Rated surge voltage (III/2) Rated surge voltage (III/2) minimum clearance value - non-homogenous field (III/2) minimum creepage distance (III/2) 1.6 mm	Specification	IEC 60664-1:2007-04
Rated insulation voltage (III/3) Rated surge voltage (III/3) Minimum clearance value - non-homogenous field (III/3) Minimum creepage distance (III/3) Rated insulation voltage (III/2) Rated surge voltage (III/2) Rated surge voltage (III/2) Minimum clearance value - non-homogenous field (III/2) Minimum creepage distance (III/2)	Insulating material group	I
Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3) Rated insulation voltage (III/2) Rated surge voltage (III/2) Rated surge voltage (III/2) minimum clearance value - non-homogenous field (III/2) minimum creepage distance (III/2) 1.6 mm	Comparative tracking index (IEC 60112)	CTI 600
minimum clearance value - non-homogenous field (III/3) 3 mm minimum creepage distance (III/3) 4 mm Rated insulation voltage (III/2) 320 V Rated surge voltage (III/2) 4 kV minimum clearance value - non-homogenous field (III/2) 3 mm minimum creepage distance (III/2) 1.6 mm	Rated insulation voltage (III/3)	320 V
minimum creepage distance (III/3) Rated insulation voltage (III/2) Rated surge voltage (III/2) 4 kV minimum clearance value - non-homogenous field (III/2) 3 mm minimum creepage distance (III/2) 1.6 mm	Rated surge voltage (III/3)	4 kV
Rated insulation voltage (III/2) Rated surge voltage (III/2) minimum clearance value - non-homogenous field (III/2) minimum creepage distance (III/2) 1.6 mm	minimum clearance value - non-homogenous field (III/3)	3 mm
Rated surge voltage (III/2) minimum clearance value - non-homogenous field (III/2) minimum creepage distance (III/2) 1.6 mm	minimum creepage distance (III/3)	4 mm
minimum clearance value - non-homogenous field (III/2) 3 mm minimum creepage distance (III/2) 1.6 mm	Rated insulation voltage (III/2)	320 V
minimum creepage distance (III/2) 1.6 mm	Rated surge voltage (III/2)	4 kV
	minimum clearance value - non-homogenous field (III/2)	3 mm
Rated insulation voltage (II/2) 630 V	minimum creepage distance (III/2)	1.6 mm
	Rated insulation voltage (II/2)	630 V
Rated surge voltage (II/2) 4 kV	Rated surge voltage (II/2)	4 kV
minimum clearance value - non-homogenous field (II/2) 3 mm	minimum clearance value - non-homogenous field (II/2)	3 mm
minimum creepage distance (II/2) 3.2 mm	minimum creepage distance (II/2)	3.2 mm

Environmental and real-life conditions

Vibration test

Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz



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Type of packaging

Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz 60.1 Hz)
Acceleration	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
urability test	
Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	4.8 kV
Contact resistance R ₁	2.3 mΩ
Contact resistance R ₂	2.4 mΩ
Insertion/withdrawal cycles	25
imatic test Specification	ISO 6988:1985-02
Specification	
Corrosive stress	0.2 dm ³ SO ₂ on 300 dm ³ /40 °C/1 cycle
Corrosive stress Thermal stress	0.2 dm ³ SO ₂ on 300 dm ³ /40 °C/1 cycle
Corrosive stress Thermal stress Power-frequency withstand voltage	0.2 dm ³ SO ₂ on 300 dm ³ /40 °C/1 cycle 100 °C/168 h 2.21 kV
Thermal stress	100 °C/168 h
Thermal stress Power-frequency withstand voltage	100 °C/168 h
Thermal stress Power-frequency withstand voltage mbient conditions	100 °C/168 h 2.21 kV
Thermal stress Power-frequency withstand voltage mbient conditions Ambient temperature (operation)	100 °C/168 h 2.21 kV -40 °C 100 °C (dependent on the derating curve)

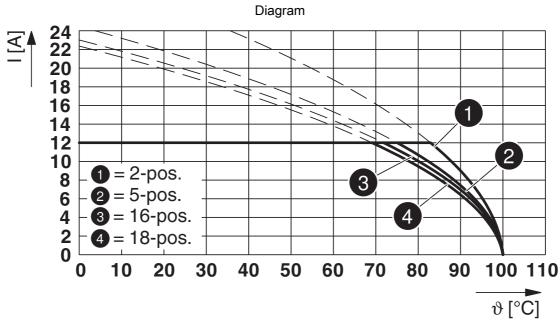
packed in cardboard



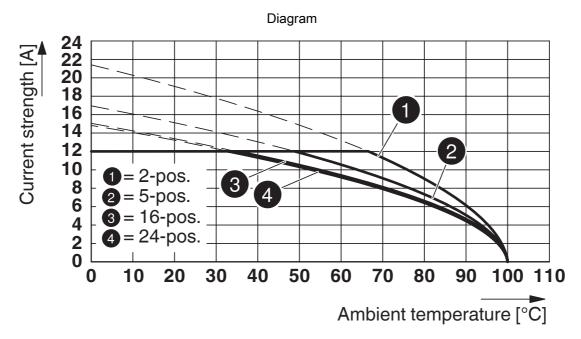
https://www.phoenixcontact.com/us/products/1769829



Drawings



Type: FKCV(W/R) 2,5/...-ST with SMSTBA 2,5/...-G

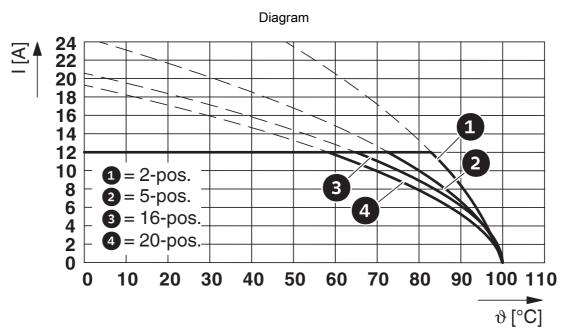


Type: MVSTB(R/W) 2,5/...-ST with SMSTBA 2,5/...-G

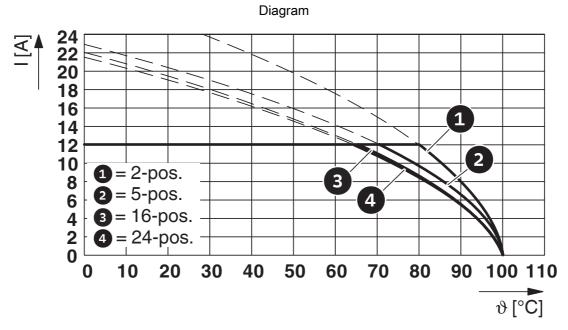


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Type: FKCT 2,5/...-ST with SMSTBA 2,5/...-G

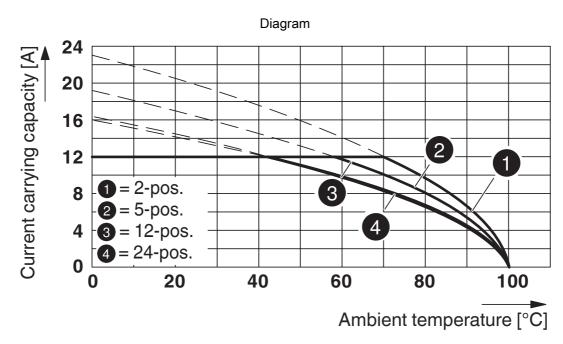


Type: MSTBP 2,5/...-ST with SMSTBA 2,5/...-G

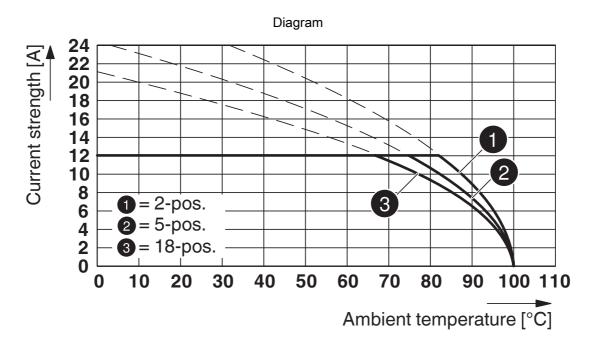


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Type: SMSTB 2,5/...-ST with SMSTBA 2,5/...-G

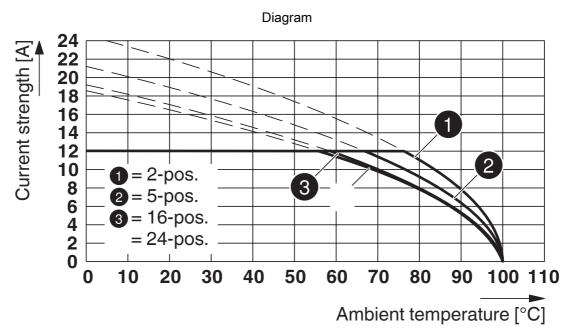


Type: FKCS 2,5/...-ST with SMSTBA 2,5/...-G

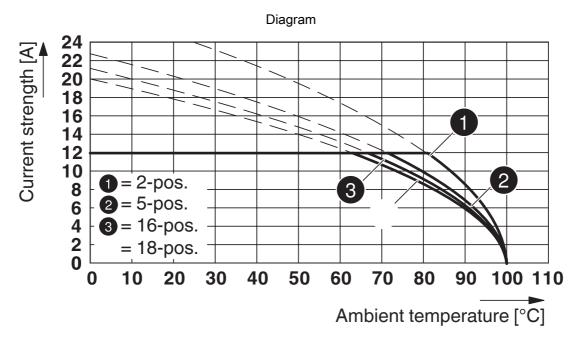


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Type: FRONT-MSTB 2,5/..-ST with SMSTBA 2,5/...-G

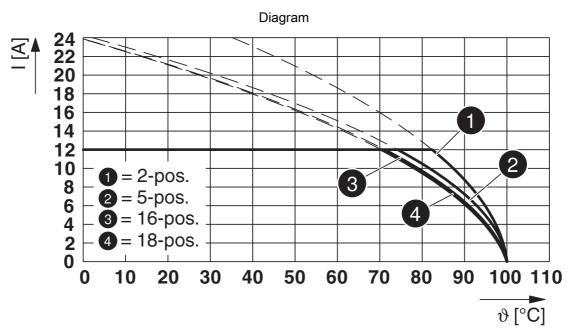


Type: MSTBT 2,5/...-ST with SMSTBA 2,5/...-G

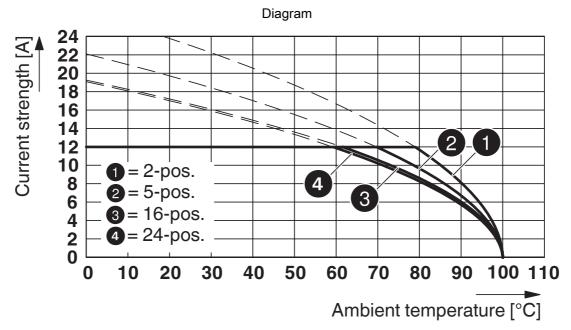


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Type: FKCN 2,5/...-ST with SMSTBA 2,5/...-G



Type: MSTB 2,5/...-ST with SMSTBA 2,5/...-G



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1769829

© CSA Approval ID: 13631-2585951				
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	300 V	15 A	-	-
Use group D				
	300 V	10 A	-	-

CULus Recognized Approval ID: E60425-19931011				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	300 V	15 A	-	-
Use group D				
	300 V	10 A	-	-

VDE Zeichengenehmigung Approval ID: 40050648				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	250 V	12 A	-	-



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Classifications

UNSPSC 21.0

ECLASS

27460201
27460201
27460201
EC002637

39121400

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Environmental product compliance

EU RoHS	
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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%



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Accessories

CR-MSTB - Coding section

1734401

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Coding section, inserted into the recess in the header or the inverted plug, red insulating material



SK 5/3,8:FORTL.ZAHLEN - Marker card

0804183

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Marker card, white, labeled, horizontal: consecutive numbers 1 \dots 10, 11 \dots 20, etc. up to 91 \dots (99)100, mounting type: adhesive, for terminal block width: 5 mm, lettering field size: 5 x 3.8 mm



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MSTB-BL - Accessories

1755477

https://www.phoenixcontact.com/us/products/1755477



Keying cap, for forming sections, plugs onto header pin, green insulating material

TVFKC 1,5/4-ST - PCB connector

1713855

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PCB connector, nominal cross section: 1.5 mm², color: green, nominal current: 10 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 8, product range: TVFKC 1,5/..-ST, pitch: 5 mm, connection method: Push-in spring 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

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TVFKCL 1,5/4-ST - PCB connector

1715947

https://www.phoenixcontact.com/us/products/1715947



PCB connector, nominal cross section: 1.5 mm², color: green, nominal current: 10 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 8, product range: TVFKCL 1,5/..-ST, pitch: 5 mm, connection method: Push-in spring 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

QC 1,5/4-ST - PCB connector

1717987

https://www.phoenixcontact.com/us/products/1717987



PCB connector, nominal cross section: 1.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 630 V, contact surface: Tin, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: QC 1,5/..-ST, pitch: 5 mm, connection method: Displacement 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

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FKCN 2,5/4-ST - PCB connector

1732768

https://www.phoenixcontact.com/us/products/1732768



PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: FKCN 2,5/..-ST, pitch: 5 mm, connection method: Push-in spring 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

MSTB 2,5/ 4-ST - PCB connector

1754481

https://www.phoenixcontact.com/us/products/1754481



PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: MSTB 2,5/..-ST, pitch: 5 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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MSTBP 2,5/ 4-ST - PCB connector

1765797

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PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: MSTBP 2,5/..-ST, pitch: 5 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

SMSTB 2,5/ 4-ST - PCB connector

1768781

https://www.phoenixcontact.com/us/products/1768781



PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: SMSTB 2,5/..-ST, pitch: 5 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: -45 °, 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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FRONT-MSTB 2,5/4-ST - PCB connector

1779437

https://www.phoenixcontact.com/us/products/1779437



PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: FRONT-MSTB 2,5/..-ST, pitch: 5 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

MSTBT 2,5/4-ST - PCB connector

1779851

https://www.phoenixcontact.com/us/products/1779851



PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: MSTBT 2,5/..-ST, pitch: 5 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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MVSTBW 2,5/ 4-STEH - PCB connector

1784299

https://www.phoenixcontact.com/us/products/1784299



PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: MVSTBW 2,5/..-STEH, pitch: 5 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

MVSTBR 2,5/4-ST - PCB connector

1792032

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PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: MVSTBR 2,5/..-ST, pitch: 5 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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MVSTBW 2,5/4-ST - PCB connector

1792540

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PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: MVSTBW 2,5/..-ST, pitch: 5 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

FKCT 2,5/4-ST - PCB connector

1909236

https://www.phoenixcontact.com/us/products/1909236



PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: FKCT 2,5/..-ST, pitch: 5 mm, connection method: Push-in spring 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

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FKCVR 2,5/4-ST - PCB connector

1909731

https://www.phoenixcontact.com/us/products/1909731



PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: FKCVR 2,5/..-ST, pitch: 5 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

FKCVW 2,5/4-ST - PCB connector

1910050

https://www.phoenixcontact.com/us/products/1910050



PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: FKCVW 2,5/..-ST, pitch: 5 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

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FKC 2,5/4-ST - PCB connector

1910377

https://www.phoenixcontact.com/us/products/1910377



PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: FKC 2,5/..-ST, pitch: 5 mm, connection method: Push-in spring 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

QC 1/4-ST-BUS - PCB connector

1921696

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PCB connector, nominal cross section: 1 mm², color: green, nominal current: 10 A, rated voltage (III/2): 630 V, contact surface: Tin, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: QC 1/..-ST-BUS, pitch: 5 mm, connection method: Displacement 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, The plug allows conductors to be looped through from module to module, without interruption



https://www.phoenixcontact.com/us/products/1769829



FKCS 2,5/4-ST - PCB connector

1974753

https://www.phoenixcontact.com/us/products/1974753



PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: FKCS 2,5/..-ST, pitch: 5 mm, connection method: Push-in spring 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

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