

1748862

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PCB connector, nominal cross section: 6 mm², color: green, nominal current: 41 A, rated voltage (III/2): 1000 V, contact surface: Tin, type of contact: Pin, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: ISPC 5/..-STGCL, pitch: 7.62 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - without locking clip, plug-in system: COMBICON PC 5, locking: Clip locking, mounting: Click & Lock latching window, type of packaging: packed in cardboard

Your advantages

- · Time saving push-in connection, tools not required
- · Defined contact force ensures that contact remains stable over the long term
- · Clamping space opened by means of fixed screwdriver enables convenient conductor connection
- · Inverted connector with pin contacts for touch-proof device outputs or free-hanging cable/cable connections
- Standard header also suitable for connectors with automatically locking Click and Lock system
- 600 V UL approval in the smallest of dimensions

Commercial Data

| Item number | 1748862 |
|--------------------------------------|---------------------|
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales Key | AAD |
| Product Key | AADFCA |
| Catalog Page | Page 534 (C-1-2013) |
| GTIN | 4046356312516 |
| Weight per Piece (including packing) | 9.906 g |
| Weight per Piece (excluding packing) | 9.718 g |
| Customs tariff number | 85366990 |
| Country of origin | IN |



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Technical Data

Product properties

| Туре | Inverted |
|-----------------------|------------------------------|
| Product line | COMBICON Connectors L |
| Product type | PCB plug |
| Product family | ISPC 5/STGCL |
| Number of positions | 2 |
| Pitch | 7.62 mm |
| Number of connections | 2 |
| Number of rows | 1 |
| Mounting flange | Click & Lock latching window |
| Number of potentials | 2 |

Electrical properties

| Nominal current I _N | 41 A |
|--------------------------------|---------|
| Nominal voltage U _N | 1000 V |
| Degree of pollution | 3 |
| Contact resistance | 0.55 mΩ |
| Rated voltage (III/3) | 1000 V |
| Rated surge voltage (III/3) | 8 kV |
| Rated voltage (III/2) | 1000 V |
| Rated surge voltage (III/2) | 8 kV |
| Rated voltage (II/2) | 1000 V |
| Rated surge voltage (II/2) | 6 kV |

Connection data

Connection technology

| Туре | Inverted |
|-----------------------|---------------|
| Connector system | COMBICON PC 5 |
| Nominal cross section | 6 mm² |
| Type of contact | Pin |

Interlock

| Locking type | Clip locking |
|-----------------|------------------------------|
| Mounting flange | Click & Lock latching window |

Conductor connection

| Connection method | Push-in spring connection |
|--|---------------------------|
| Conductor/PCB connection direction | 0° |
| Conductor cross section rigid | 0.2 mm² 10 mm² |
| Conductor cross section flexible | 0.2 mm² 6 mm² |
| Conductor cross section AWG | 24 8 |
| Conductor cross section flexible, with ferrule without plastic | 0.25 mm² 6 mm² |



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| sleeve | |
|---|--|
| Conductor cross section, flexible, with ferrule, with plastic sleeve | 0.25 mm² 4 mm² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.25 mm² 1.5 mm² |
| Cylindrical gauge a x b / diameter | 4.3 mm x 4.0 mm / 4.0 mm |
| Stripping length | 15 mm |
| pecifications for ferrules without insulating collar | |
| recommended crimping tool | 1212034 CRIMPFOX 6 |
| ferrules without insulating collar, according to DIN 46228-1 | Cross section: 0.5 mm²; Length: 10 mm 15 mm |
| | Cross section: 0.75 mm²; Length: 10 mm 15 mm |
| | Cross section: 1 mm²; Length: 10 mm 15 mm |
| | Cross section: 1.5 mm²; Length: 12 mm 15 mm |
| | Cross section: 2.5 mm²; Length: 12 mm 15 mm |
| | Cross section: 4 mm²; Length: 12 mm 15 mm |
| | Cross section: 6 mm²; Length: 12 mm 15 mm |
| pecifications for ferrules with insulating collar | |
| recommended crimping tool | 1212034 CRIMPFOX 6 |
| ferrules with insulating collar, according to DIN 46228-4 | Cross section: 0.5 mm²; Length: 10 mm 15 mm |
| | Cross section: 0.75 mm²; Length: 12 mm 15 mm |
| | Cross section: 1 mm²; Length: 12 mm 15 mm |
| | Cross section: 1.5 mm²; Length: 12 mm 15 mm |
| | Cross section: 2.5 mm²; Length: 12 mm 15 mm |
| | Cross section: 4 mm²; Length: 12 mm 15 mm |

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 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 |



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Dimensions

| Dimensional drawing | h |
|---------------------|----------|
| Pitch | 7.62 mm |
| Width [w] | 18.04 mm |
| Height [h] | 19.8 mm |
| Length [I] | 40.5 mm |

Mounting

| Connection method | Push-in spring connection |
|-------------------|---------------------------|
|-------------------|---------------------------|

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. |

Mechanical tests

Test for conductor damage and slackening

| Specification | IEC 60999-1:1999-11 |
|---|-----------------------------|
| Result | Test passed |
| Repeated connection and disconnection | |
| Specification | IEC 60999-1:1999-11 |
| Result | Test passed |
| Pull-out test | |
| Specification | IEC 60999-1:1999-11 |
| Conductor cross section/conductor type/tractive force setpoint/actual value | 10 mm² / solid / > 90 N |
| | 6 mm² / flexible / > 80 N |
| | 0.2 mm² / solid / > 10 N |
| | 0.2 mm² / flexible / > 10 N |

Insertion and withdrawal forces

| Result | Test passed |
|-------------------------------------|-------------|
| No. of cycles | 25 |
| Insertion strength per pos. approx. | 7.5 N |
| Withdraw strength per pos. approx. | 5 N |

Resistance of inscriptions

| Resistance of inscriptions | | |
|----------------------------|------------------------|--|
| Specification | IEC 60068-2-70:1995-12 | |
| Result | Test passed | |



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| Polarization and coding |
|-------------------------|
|-------------------------|

| Specification | IEC 60512-7:1993-08 (Polarization) | | |
|-------------------|------------------------------------|--|--|
| Result | Test passed | | |
| Visual inspection | | | |
| Specification | IEC 60512-1-1:2002-02 | | |
| Result | Test passed | | |
| Dimension check | | | |
| Specification | IEC 60512-1-2:2002-02 | | |
| Result | Test passed | | |

Environmental and real-life conditions

Vibration test

| Specification | IEC 60068-2-6:1995-03 |
|------------------------|-------------------------|
| Frequency | 10 - 150 - 10 Hz |
| Sweep speed | 1 octave/min |
| Amplitude | 0.35 mm (10 Hz 60.1 Hz) |
| Sweep speed | 5g (60.1 Hz 150 Hz) |
| Test duration per axis | 2.5 h |

Durability test

| Specification | IEC 60512-5:1992-08 |
|--|---------------------|
| Impulse withstand voltage at sea level | 9.8 kV |
| Contact resistance R ₁ | 0.55 mΩ |
| Contact resistance R ₂ | 0.6 mΩ |
| Insertion/withdrawal cycles | 25 |

Climatic test

| Specification | ISO 6988:1985-02 |
|-----------------------------------|---|
| Corrosive stress | 0.2 dm ³ SO ₂ on 300 dm ³ /40 °C/1 cycle |
| Thermal stress | 100 °C/168 h |
| Power-frequency withstand voltage | 4.26 kV |

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

Thermal test | Test group C

| 0 15 1 | JEO 00540 5 4 0000 00 |
|----------------------------|-----------------------|
| Specification | IEC 60512-5-1:2002-02 |
| Tested number of positions | 12 |



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Insulation resistance

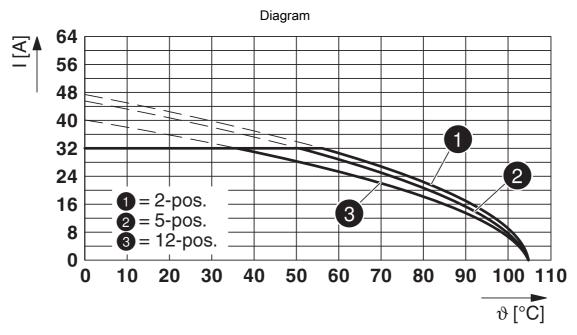
| Specification | IEC 60512-3-1:2002-02 |
|--|-----------------------|
| Insulation resistance, neighboring positions | $10^{12} \Omega$ |
| Temperature cycles | |
| Specification | IEC 60999-1:1999-11 |
| opeomound. | 125 55555 11.5555 1. |
| Air clearances and creepage distances | |
| Specification | IEC 60664-1:2007-04 |
| Insulating material group | I |
| Comparative tracking index (IEC 60112) | CTI 600 |
| Rated insulation voltage (III/3) | 1000 V |
| Rated surge voltage (III/3) | 8 kV |
| minimum clearance value - non-homogenous field (III/3) | 8 mm |
| minimum creepage distance (III/3) | 12.5 mm |
| Rated insulation voltage (III/2) | 1000 V |
| Rated surge voltage (III/2) | 8 kV |
| minimum clearance value - non-homogenous field (III/2) | 8 mm |
| minimum creepage distance (III/2) | 8 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 |



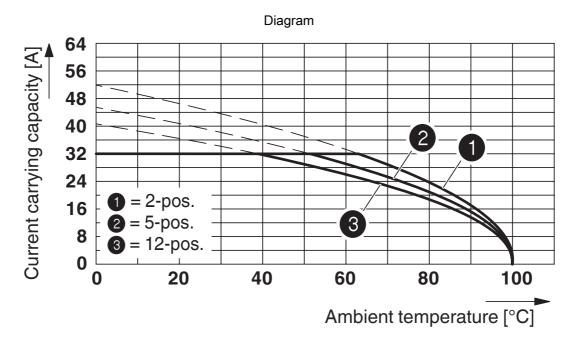
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Drawings



Type: PC 5/...-STCL1-7,62 with ISPC 5/...-STGCL-7,62

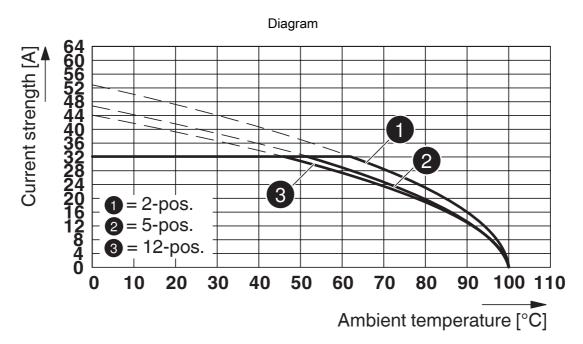


Type: ISPC 5/...-STGCL-7,62 with IPC 5/...-G-7,62



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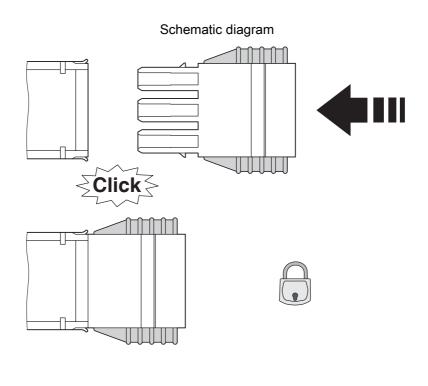


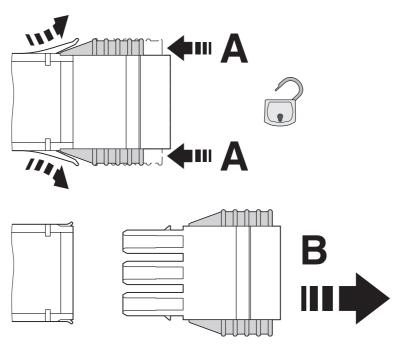
Type: SPC 5/...-STCL-7,62 with ISPC 5/...-STGCL-7,62



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Click and Lock system method of operation



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Approvals



EAC

Approval ID: B.01687

| CULus Recognized Approval ID: E60425-19920722 | | | | |
|---|--------------------------------|--------------------------------|-------------------|-------------------------------|
| | Nominal Voltage U _N | Nominal Current I _N | Cross Section AWG | Cross Section mm ² |
| Use group B | | | | |
| | 600 V | 35 A | 24 - 8 | - |
| Use group C | | | | |
| | 600 V | 35 A | 24 - 8 | - |



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Classifications

UNSPSC 21.0

ECLASS

| | ECLASS-11.0 | 27460202 |
|------|-------------|----------|
| | ECLASS-12.0 | 27460202 |
| | ECLASS-13.0 | 27460202 |
| ETIM | | |
| | ETIM 8.0 | EC002638 |
| UNS | SPSC | |

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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Accessories

CP-PC RD - Coding profile

1701967

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Coding profile, for plugging into the coding ribs of the plug at a later date, insulating material, color: Red



SZF 1-0,6X3,5 - Screwdriver

1204517

https://www.phoenixcontact.com/in/products/1204517



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: $0.6 \times 3.5 \times 100$ mm, 2-component grip, with non-slip grip



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CRIMPFOX 6 - Crimping pliers

1212034

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Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.25 mm² ... 6.0 mm², lateral entry, trapezoidal crimp

SK 7,62/3,8:FORTL.ZAHLEN - Marker card

0804549

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Marker card, white, labeled, horizontal: consecutive numbers 1 \dots 10, 11 \dots 20, etc. up to 91 \dots 100, mounting type: adhesive, for terminal block width: 7.62 mm, lettering field size: 7.62 x 3.8 mm



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SK 3,8 REEL P7,62 WH CUS - Marker card

0825128

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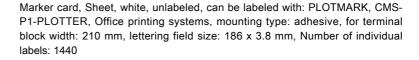


Marker card, can be ordered: by card, white, labeled according to customer specifications, mounting type: adhesive, for terminal block width: 7.62 mm, lettering field size: continuous x 3.8 mm

SK U/3,8 WH:UNBEDRUCKT - Marker card

0803906

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SK 3,8 WH:REEL - Marker strip

0805218

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Marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 90000 mm, lettering field size: continuous x 3.8 mm, Number of individual labels: 210000

Al 4 -15 GY - Ferrule

1200264

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Ferrule, sleeve length: 15 mm, length: 23 mm, color: gray



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PC 5/2-ST1-7,62 - PCB connector

1777723

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PCB connector, nominal cross section: 6 mm², color: green, nominal current: 41 A, rated voltage (III/2): 1000 V, contact surface: Tin, type of contact: Socket, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: PC 5/..-ST1, pitch: 7.62 mm, connection method: Screw connection with tension sleeve, screw head form: H1L Philipps recess with slotted Torx, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON PC 5, locking: without, mounting: without, type of packaging: packed in cardboard

PC 5/2-STCL1-7,62 - PCB connector

1778065

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PCB connector, nominal cross section: 6 mm², color: green, nominal current: 41 A, rated voltage (III/2): 1000 V, contact surface: Tin, type of contact: Socket, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: PC 5/..-STCL1, pitch: 7.62 mm, connection method: Screw connection with tension sleeve, screw head form: H1L Philipps recess with slotted Torx, conductor/PCB connection direction: 0 °, locking clip: without locking clip, plug-in system: COMBICON PC 5, locking: Clip locking, mounting: Click & Lock latching slide, type of packaging: packed in cardboard



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SPC 5/2-ST-7,62 - PCB connector

1996016

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PCB connector, nominal cross section: 6 mm², color: green, nominal current: 41 A, rated voltage (III/2): 1000 V, contact surface: Tin, type of contact: Socket, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: SPC 5/..-ST, pitch: 7.62 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON PC 5, locking: without, mounting: without, type of packaging: packed in cardboard

SPC 5/2-STCL-7,62 - PCB connector

1718481

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PCB connector, nominal cross section: 6 mm², color: green, nominal current: 41 A, rated voltage (III/2): 1000 V, contact surface: Tin, type of contact: Socket, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: SPC 5/..-STCL, pitch: 7.62 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - without locking clip, plug-in system: COMBICON PC 5, locking: Clip locking, mounting: Click & Lock latching slide, type of packaging: packed in cardboard



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TSPC 5/2-ST-7,62 - PCB connector

1728455

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PCB connector, nominal cross section: 6 mm², color: green, nominal current: 41 A, rated voltage (III/2): 1000 V, contact surface: Tin, type of contact: Socket, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 4, product range: TSPC 5/..-ST, pitch: 7.62 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON PC 5, locking: without, mounting: without, type of packaging: packed in cardboard

TSPC 5/ 2-STCL-7,62 - PCB connector

1765418

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PCB connector, nominal cross section: 6 mm², color: green, nominal current: 41 A, rated voltage (III/2): 1000 V, contact surface: Tin, type of contact: Socket, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 4, product range: TSPC 5/..-STCL, pitch: 7.62 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - without locking clip, plug-in system: COMBICON PC 5, locking: Clip locking, mounting: Click & Lock latching slide, type of packaging: packed in cardboard



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IPC 5/2-G-7,62 - PCB header

1708381

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PCB headers, nominal cross section: 6 mm², color: green, nominal current: 41 A, rated voltage (III/2): 630 V, contact surface: Tin, type of contact: Socket, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: IPC 5/..-G, pitch: 7.62 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 5 mm, number of solder pins per potential: 3, plug-in system: COMBICON PC 5, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: packed in cardboard

IPC 5/ 2-GU-7,62 - PCB header

1708608

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PCB headers, nominal cross section: 6 mm², color: green, nominal current: 41 A, rated voltage (III/2): 630 V, contact surface: Tin, type of contact: Socket, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: IPC 5/..-GU, pitch: 7.62 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 5 mm, number of solder pins per potential: 3, plug-in system: COMBICON PC 5, Pin connector pattern alignment: reversed, locking: without, mounting: without, type of packaging: packed in cardboard



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IPCV 5/ 2-G-7,62 - PCB header

1708828

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PCB headers, nominal cross section: 6 mm², color: green, nominal current: 41 A, rated voltage (III/2): 630 V, contact surface: Tin, type of contact: Socket, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: IPCV 5/..-G, pitch: 7.62 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 5 mm, number of solder pins per potential: 3, plug-in system: COMBICON PC 5, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: packed in cardboard

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