

Printed-circuit board connector - ISPC 5/ 5-STGCL-7,62 - 1748891

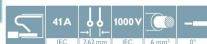
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PCB connector, nominal current: 41 A, rated voltage (III/2): 1000 V, nominal cross section: 6 mm², number of positions: 5, pitch: 7.62 mm, connection method: Push-in spring connection, color: green, contact surface: Tin




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



Key Commercial Data

| | |
|--------------|---|
| Packing unit | 50 pc |
| GTIN |  4 046356 312547 |
| GTIN | 4046356312547 |

Technical data

Item properties

| | |
|---------------------------|---------------------------------|
| Brief article description | Printed-circuit board connector |
| Plug-in system | POWER COMBICON 5 |
| Type of contact | Male connector |
| Range of articles | ISPC 5/...-STGCL |
| Pitch | 7.62 mm |
| Number of positions | 5 |
| Connection method | Push-in spring connection |
| Locking | Click & Lock latching window |
| Number of levels | 1 |
| Number of connections | 5 |

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Technical data

Item properties

| | |
|----------------------|---|
| Number of potentials | 5 |
|----------------------|---|

Electrical parameters

| | |
|-----------------------------|--------|
| Nominal current | 41 A |
| Nom. voltage | 1000 V |
| Rated voltage | 1000 V |
| Rated voltage (III/2) | 1000 V |
| Rated voltage (II/2) | 1000 V |
| Rated surge voltage (III/3) | 8 kV |
| Rated surge voltage (III/2) | 8 kV |
| Rated surge voltage (II/2) | 6 kV |

Connection capacity

| | |
|---|--|
| Connection method | Push-in spring connection |
| pluggable | Yes |
| Conductor cross section solid | 0.2 mm ² ... 10 mm ² |
| Conductor cross section flexible | 0.2 mm ² ... 6 mm ² |
| Conductor cross section AWG / kcmil | 24 ... 8 |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.25 mm ² ... 6 mm ² |
| Conductor cross section, flexible, with ferrule, with plastic sleeve | 0.25 mm ² ... 4 mm ² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.25 mm ² ... 1.5 mm ² |
| Cylindrical gauge a x b / diameter | 4.3 mm x 4.0 mm / 4.0 mm |
| Stripping length | 15 mm |

Specifications for ferrules

| | |
|--|---|
| Recommended crimping pliers | 1212034 CRIMPFOX 6 |
| Ferrules without insulating collar, according to DIN 46228-1 | Cross section: 0.5 mm ² ; Length: 10 mm ... 15 mm |
| | Cross section: 0.75 mm ² ; Length: 10 mm ... 15 mm |
| | Cross section: 1 mm ² ; Length: 10 mm ... 15 mm |
| | Cross section: 1.5 mm ² ; Length: 12 mm ... 15 mm |
| | Cross section: 2.5 mm ² ; Length: 12 mm ... 15 mm |
| | Cross section: 4 mm ² ; Length: 12 mm ... 15 mm |
| Recommended crimping pliers | 1212034 CRIMPFOX 6 |
| Ferrules with insulating collar, according to DIN 46228-4 | Cross section: 0.5 mm ² ; Length: 15 mm |
| | Cross section: 0.75 mm ² ; Length: 12 mm ... 15 mm |
| | Cross section: 1 mm ² ; Length: 15 mm |
| | Cross section: 1.5 mm ² ; Length: 15 mm |
| | Cross section: 2.5 mm ² ; Length: 12 mm ... 15 mm |
| | Cross section: 4 mm ² ; Length: 12 mm ... 15 mm |

Material data - contact

| | |
|------|---|
| Note | WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/ JEDEC JESD 201 |
|------|---|

Printed-circuit board connector - ISPC 5/ 5-STGCL-7,62 - 1748891

Technical data

Material data - contact

| | |
|--|--------------------|
| 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

| | |
|---|--------------|
| Housing color | 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 for the product

| | |
|--------------|---------|
| Length [l] | 40.5 mm |
| Width [w] | 40.9 mm |
| Height [h] | 19.8 mm |
| Pitch | 7.62 mm |

Packaging information

| | |
|----------------------------|---------------------|
| Type of packaging | packed in cardboard |
| Pieces per package | 50 |
| Denomination packing units | Pcs. |

Ambient conditions

| | |
|---|---|
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |
| Ambient temperature (assembly) | -5 °C ... 100 °C |
| Ambient temperature (operation) | -40 °C ... 100 °C (dependent on the derating curve) |

Termination and connection method

| | |
|--|---|
| Conductor connection test | The stripped-off ends of the largest conductor can be completely inserted in the opening of the terminal point without using excessive force. |
| Test result | Test passed |
| Test – repeated connection and release | IEC 60999-1:1999-11 |
| | Test passed |
| Test for conductor damage and slackening | IEC 60999-1:1999-11 |
| | Test passed |

Pull-out test

| | |
|--|-------------------------|
| Pull-out test | IEC 60999-1:1999-11 |
| | Test passed |
| Conductor cross section / conductor type / tensile force | 10 mm² / solid / > 90 N |

Printed-circuit board connector - ISPC 5/ 5-STGCL-7,62 - 1748891

Technical data

Pull-out test

| | |
|--|---|
| | 6 mm ² / flexible / > 80 N |
| | 0.2 mm ² / solid / > 10 N |
| | 0.2 mm ² / flexible / > 10 N |

Mechanical tests according to standard

| | |
|-------------------------------------|------------------------------------|
| Test specification | IEC 61984 |
| Visual inspection | IEC 60512-1-1:2002-02 |
| Dimension check | IEC 60512-1-2:2002-02 |
| Resistance of inscriptions | IEC 60068-2-70:1995-12 |
| Insertion and withdrawal force | IEC 60512-13-2:2006-02 |
| No. of cycles | 25 |
| Insertion strength per pos. approx. | 7.5 N |
| Withdraw strength per pos. approx. | 5 N |
| Polarization and coding | IEC 60512-7:1993-08 (Polarization) |

Air clearances and creepage distances

| | |
|---|---------------------|
| Clearances and creepage distances | IEC 60664-1:2007-04 |
| Specification | IEC 60664-1:2007-04 |
| Minimum clearance - inhomogeneous field (III/3) | 8 mm |
| Minimum clearance - inhomogeneous field (III/2) | 8 mm |
| Minimum clearance - inhomogeneous field (II/2) | 5.5 mm |
| Minimum creepage distance value (III/3) | 12.5 mm |
| Minimum creepage distance value (III/2) | 8 mm |
| Minimum creepage distance value (II/2) | 5.5 mm |

Electrical tests - Function

| | |
|---------------|---------------------|
| Specification | IEC 60999-1:1999-11 |
|---------------|---------------------|

Temperature cycles

| | |
|--------------------------------------|---------------------|
| Specification | IEC 60999-1:1999-11 |
| Test current (minimum cross section) | 4 A DC |
| Test current (maximum cross section) | 32 A DC |
| Temperature cycles | 192 |

Current carrying capacity / derating curves

| | |
|------------------|---|
| Caption | Type: ISPC 5/...-STGCL-7,62 with IPC 5/...-G-7,62 |
| Reduction factor | 0.8 |
| Note | Representation based on IEC 60512-5-2:2002-02 |
| | For number of positions, see diagram |

Mechanical tests (A)

| | |
|-------------------------------------|-----------|
| Test specification | IEC 61984 |
| Insertion strength per pos. approx. | 7.5 N |
| Withdraw strength per pos. approx. | 5 N |

Printed-circuit board connector - ISPC 5/ 5-STGCL-7,62 - 1748891

Technical data

Mechanical tests (A)

| | |
|--|-------------|
| Polarization when inserted requirement >20 N | Test passed |
|--|-------------|

Durability tests (B)

| | |
|--|---------------------|
| Specification | IEC 60512-5:1992-08 |
| Contact resistance R ₁ | 0.55 mΩ |
| Insertion/withdrawal cycles | 25 |
| Contact resistance R ₂ | 0.6 mΩ |
| Impulse withstand voltage at sea level | 9.8 kV |
| Power-frequency withstand voltage | 4.26 kV |
| Insulation resistance, neighboring positions | > 10 TΩ |

Thermal tests (C)

| | |
|---|-----------------------|
| Specification | IEC 60512-5-1:2002-02 |
| Number of positions | 12 |
| Conductor cross section | 6 mm ² |
| Test current | 32 A |
| Upper limiting temperature requirements <100 °C | Test passed |

Climatic tests (D)

| | |
|--|---|
| Specification | ISO 6988:1985-02 |
| Cold stress | -40 °C/2 h |
| Thermal stress | 100 °C/168 h |
| Corrosive stress | 0.2 dm ³ SO ₂ on 300 dm ³ /40 °C/1 cycle |
| Impulse withstand voltage at sea level | 9.8 kV |
| Power-frequency withstand voltage | 4.26 kV |

Environmental and durability tests (E)

| | |
|---------------------------------------|--|
| Result, degree of protection, IP code | IP20 in acc. with IEC 60529:2001-02 in installation position |
|---------------------------------------|--|

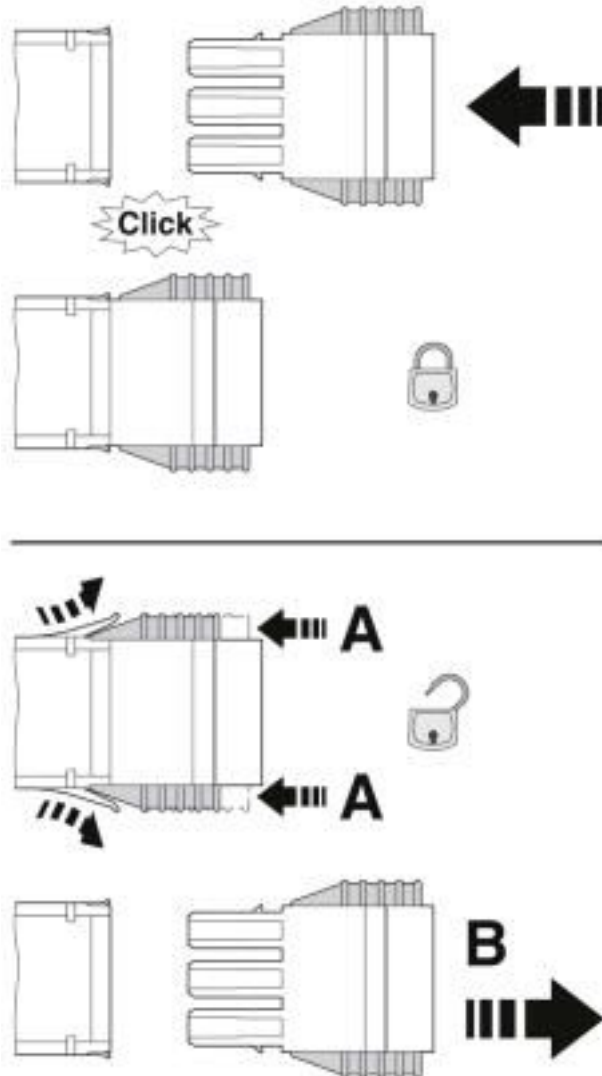
Environmental Product Compliance

| | |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

Drawings

Printed-circuit board connector - ISPC 5/ 5-STGCL-7,62 - 1748891

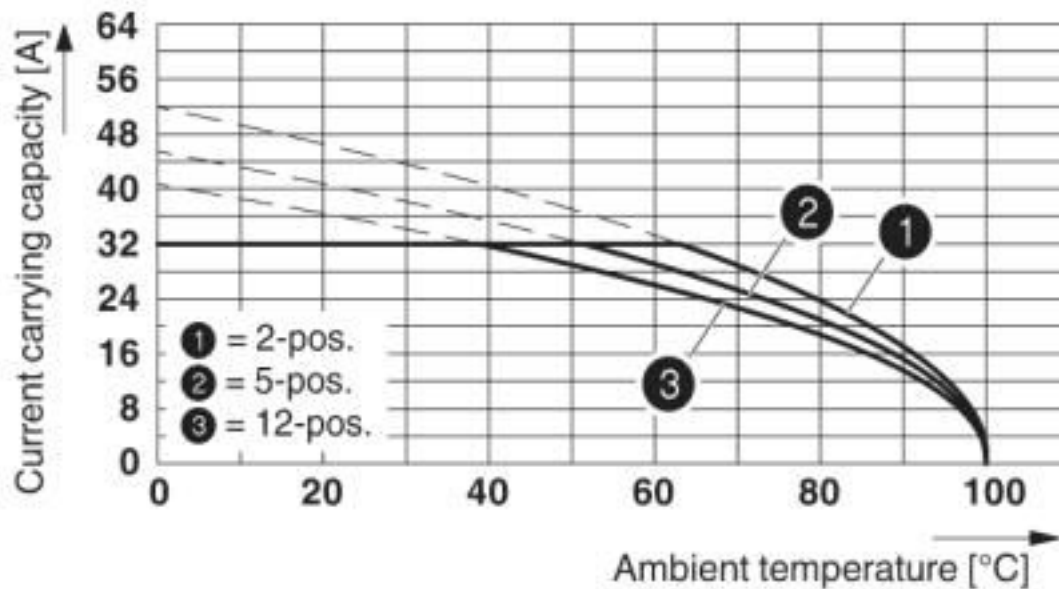
Schematic diagram



Click and Lock system method of operation

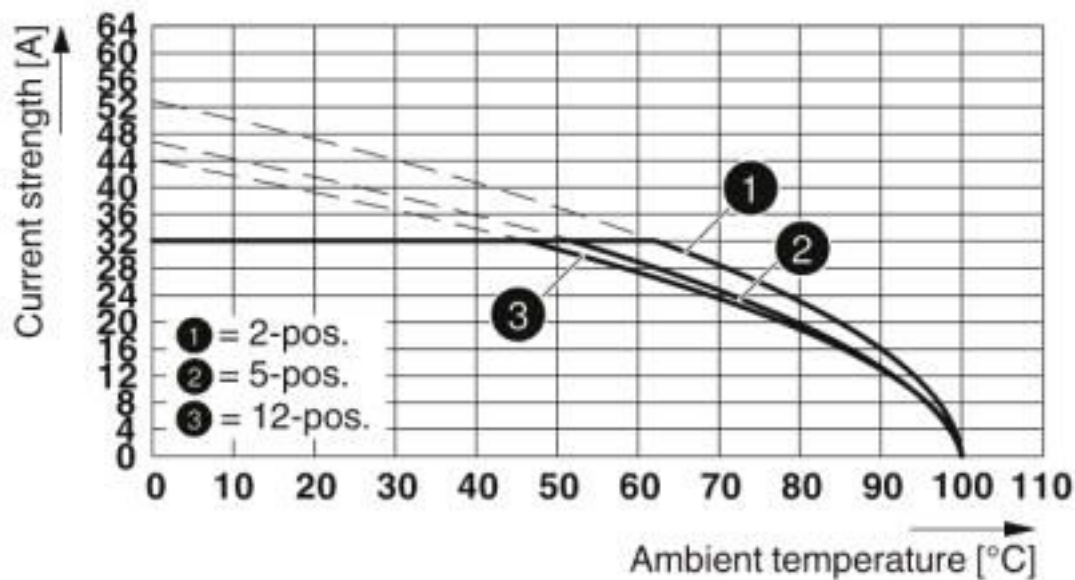
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Diagram



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

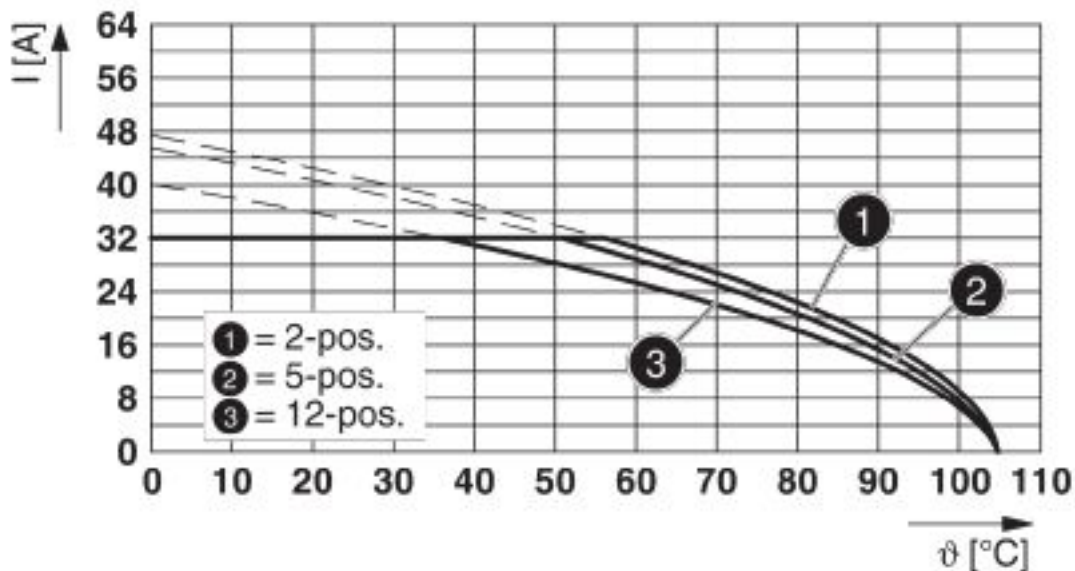
Diagram



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

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Diagram



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

Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 27440309 |
| eCl@ss 4.0 | 27260700 |
| eCl@ss 4.1 | 27260700 |
| eCl@ss 5.0 | 27260700 |
| eCl@ss 5.1 | 27260700 |
| eCl@ss 6.0 | 27260700 |
| eCl@ss 7.0 | 27440309 |
| eCl@ss 8.0 | 27440309 |
| eCl@ss 9.0 | 27440309 |

ETIM

| | |
|----------|----------|
| ETIM 3.0 | EC001121 |
| ETIM 4.0 | EC002638 |
| ETIM 5.0 | EC002638 |
| ETIM 6.0 | EC002638 |
| ETIM 7.0 | EC002638 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 30211810 |
| UNSPSC 7.0901 | 39121409 |
| UNSPSC 11 | 39121409 |
| UNSPSC 12.01 | 39121409 |

Printed-circuit board connector - ISPC 5/ 5-STGCL-7,62 - 1748891

Classifications

UNSPSC

| | |
|-------------|----------|
| UNSPSC 13.2 | 39121409 |
| UNSPSC 18.0 | 39121409 |
| UNSPSC 19.0 | 39121409 |
| UNSPSC 20.0 | 39121409 |
| UNSPSC 21.0 | 39121409 |

Approvals

Approvals

Approvals

EAC / cULus Recognized

Ex Approvals

Approval details

| | | |
|-----|--|---------|
| EAC | | B.01687 |
|-----|--|---------|

| | | | |
|----------------------------|-------|---|-----------------|
| cULus Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | E60425-19920722 |
| | B | C | |
| Nominal voltage UN | 600 V | 600 V | |
| Nominal current IN | 35 A | 35 A | |
| mm ² /AWG/kcmil | 24-8 | 24-8 | |

Accessories

Accessories

Cable end sleeve

Ferrule - AI 4 -15 GY - 1200264



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

Printed-circuit board connector - ISPC 5/ 5-STGCL-7,62 - 1748891

Accessories

Coding element

Coding profile - CP-PC RD - 1701967



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

Crimping tool

Crimping pliers - CRIMPFOX 6 - 1212034



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

Labeled terminal marker

Marker card - SK 7,62/3,8:FORTL.ZAHLEN - 0804549



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

Marker card - SK 3,8 REEL P7,62 WH CUS - 0825128



Marker card, 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

Screwdriver tools

Screwdriver - SZF 1-0,6X3,5 - 1204517



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

Printed-circuit board connector - ISPC 5/ 5-STGCL-7,62 - 1748891

Accessories

Terminal marking

Marker card - SK U/3,8 WH:UNBEDRUCKT - 0803906



Marker card, Sheet, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, lettering field size: 186 x 3.8 mm, Number of individual labels: 1440

Marker strip - SK 3,8 WH:REEL - 0805218



Marker strip, Roll, white, unlabeled, can be labeled with: 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

Additional products

Printed-circuit board connector - PC 5/ 5-ST1-7,62 - 1777752



PCB connector, nominal current: 41 A, rated voltage (III/2): 1000 V, nominal cross section: 6 mm², number of positions: 5, pitch: 7.62 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin

Printed-circuit board connector - PC 5/ 5-STCL1-7,62 - 1778094



PCB connector, nominal current: 41 A, rated voltage (III/2): 1000 V, nominal cross section: 6 mm², number of positions: 5, pitch: 7.62 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin

Printed-circuit board connector - SPC 5/ 5-ST-7,62 - 1996045



PCB connector, nominal current: 41 A, rated voltage (III/2): 1000 V, nominal cross section: 6 mm², number of positions: 5, pitch: 7.62 mm, connection method: Push-in spring connection, color: green, contact surface: Tin

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Accessories

Printed-circuit board connector - SPC 5/ 5-STCL-7,62 - 1718517



PCB connector, nominal current: 41 A, rated voltage (III/2): 1000 V, nominal cross section: 6 mm², number of positions: 5, pitch: 7.62 mm, connection method: Push-in spring connection, color: green, contact surface: Tin

Printed-circuit board connector - TSPC 5/ 5-ST-7,62 - 1728484



PCB connector, nominal current: 41 A, rated voltage (III/2): 1000 V, nominal cross section: 6 mm², number of positions: 5, pitch: 7.62 mm, connection method: Push-in spring connection, color: green, contact surface: Tin

Printed-circuit board connector - TSPC 5/ 5-STCL-7,62 - 1765447



PCB connector, nominal current: 41 A, rated voltage (III/2): 1000 V, nominal cross section: 6 mm², number of positions: 5, pitch: 7.62 mm, connection method: Push-in spring connection, color: green, contact surface: Tin

Printed-circuit board connector - IPC 5/ 5-G-7,62 - 1708417



PCB headers, nominal current: 41 A, rated voltage (III/2): 630 V, nominal cross section: 6 mm², number of positions: 5, pitch: 7.62 mm, color: green, contact surface: Tin, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 5 mm

Printed-circuit board connector - IPC 5/ 5-GU-7,62 - 1708637



PCB headers, nominal current: 41 A, rated voltage (III/2): 630 V, nominal cross section: 6 mm², number of positions: 5, pitch: 7.62 mm, color: green, contact surface: Tin, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 5 mm

Printed-circuit board connector - ISPC 5/ 5-STGCL-7,62 - 1748891

Accessories

Printed-circuit board connector - IPCV 5/ 5-G-7,62 - 1708857



PCB headers, nominal current: 41 A, rated voltage (III/2): 630 V, nominal cross section: 6 mm², number of positions: 5, pitch: 7.62 mm, color: green, contact surface: Tin, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 5 mm

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