

1748367

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PCB connector, nominal cross section: 1.5 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Female connector, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: FMC 1,5/..-STF, pitch: 3.81 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, number of solder pins per potential: 1, plug-in system: MINI COMBICON, Locking: Screw locking, mounting: Screw flange, 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
- · Intuitive use through colour coded actuation lever
- · Operation and conductor connection from one direction enable integration into front of device
- · Screwable flange for superior mechanical stability



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Commercial Data

| Order Key | 1748367 |
|--------------------------------------|---------------------|
| Packing unit | 50 pc |
| Minimum order quantity | 1 pc |
| Product Key | AABFBB |
| Catalog Page | Page 201 (C-1-2013) |
| GTIN | 4046356311403 |
| Weight per Piece (including packing) | 2.8 g |
| Weight per Piece (excluding packing) | 2.8 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |



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Technical Data

Product properties

| Туре | Standard |
|-----------------------|---------------|
| Number of positions | 3 |
| Number of connections | 3 |
| Number of rows | 1 |
| Connector system | MINI COMBICON |
| Mounting flange | Screw flange |
| Number of potentials | 3 |

Electrical properties

| Maximum load current | 8 A |
|--------------------------------|--------|
| Rated voltage (II/2) | 320 V |
| Rated voltage (III/2) | 160 V |
| Rated surge voltage (II/2) | 2.5 kV |
| Rated surge voltage (III/2) | 2.5 kV |
| Rated surge voltage (III/3) | 2.5 kV |
| Nominal voltage U _N | 160 V |
| Nominal current I _N | 8 A |
| Nominal current I _N | 8 A |

Connection data

Connection technology

| Туре | Standard |
|-----------------------|------------------|
| Connector system | MINI COMBICON |
| Nominal cross section | 1.5 mm² |
| Type of contact | Female connector |

Interlock

| Locking type | Screw locking |
|-----------------|---------------|
| Mounting flange | Screw flange |
| Torque | 0.3 Nm |

Conductor connection

| Connection method | Push-in spring connection |
|---|---|
| Conductor cross section solid | 0.2 mm ² 1.5 mm ² |
| Conductor cross section flexible | 0.2 mm ² 1.5 mm ² |
| Conductor cross section AWG | 24 16 |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.25 mm² 1.5 mm² |
| Conductor cross section, flexible, with ferrule, with plastic sleeve | 0.14 mm² 0.75 mm² |
| Cylindrical gauge a x b / diameter | 2.4 mm x 1.5 mm / 1.6 mm |
| Stripping length | 10 mm |



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| 0 'C (| | *** | | |
|----------------|--------------|---------|----------------|-----|
| Specifications | tor terrules | without | insulating col | ıar |

| recommended crimping tool | 1212034 CRIMPFOX 6 |
|---|---------------------------------------|
| ferrules without insulating collar, according to DIN 46228-1 | Cross section: 0.25 mm²; Length: 7 mm |
| | |
| | |
| pecifications for ferrules with insulating collar recommended crimping tool | 1212034 CRIMPFOX 6 |

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 | 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 |

Material data – actuating element

| Insulating material | PBT |
|--|-----|
| Insulating material group | I |
| CTI according to IEC 60112 | 600 |
| Flammability rating according to UL 94 | V0 |

Dimensions

| Dimensional drawing | h |
|---------------------|----------|
| Width | 21.52 mm |
| Height | 7.8 mm |
| Installed height | 7.8 mm |
| Length | 22.9 mm |



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| Pitch | 3.81 mm |
|---|-----------------------------|
| hanical tests | |
| at for any division desired and all pales also | |
| est for conductor damage and slackening Specification | IEC 60999-1:1999-11 |
| Result | Test passed |
| epeated connection and disconnection | |
| Specification | IEC 60999-1:1999-11 |
| Result | Test passed |
| Tesan | Test passed |
| ull-out test | |
| Specification | IEC 60999-1:1999-11 |
| Conductor cross section/conductor type/tractive force setpoint/actual value | 0.2 mm² / solid / > 10 N |
| Solponibuotaan vanac | 0.2 mm² / flexible / > 10 N |
| | 1.5 mm² / solid / > 40 N |
| | 1.5 mm² / flexible / > 40 N |
| sertion and withdrawal forces | |
| Result | Test passed |
| No. of cycles | 25 |
| Insertion strength per pos. approx. | 8 N |
| Withdraw strength per pos. approx. | 6 N |
| ontact holder in insert | |
| Specification | IEC 60512-15-1:2008-05 |
| Result | Test passed |
| Test force per pos. | 27 N |
| esistance of inscriptions | |
| Specification | IEC 60068-2-70:1995-12 |
| Result | Test passed |
| olarization and coding | |
| Specification | IEC 60512-13-5:2006-02 |
| Result | Test passed |
| rocal | 1 501 passou |
| /isual 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



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| Specification | IEC 60068-2-6:2007-12 |
|--|---|
| Frequency | 10 - 150 - 10 Hz |
| Sweep speed | 1 octave/min |
| Amplitude | 0.35 mm (10 - 60.1 Hz) |
| Sweep speed | 5g (60.1 - 150 Hz) |
| Test duration per axis | 2.5 h |
| Durability test | |
| Specification | IEC 60512-9-1:2010-03 |
| Impulse withstand voltage at sea level | 2.95 kV |
| Contact resistance R ₁ | 1.8 mΩ |
| Contact resistance R ₂ | 2 mΩ |
| Insertion/withdrawal cycles | 25 |
| Insulation resistance, neighboring positions | > 5 MΩ |
| Climatic test | |
| | 100 00004005 02 |
| Specification | ISO 6988:1985-02 0.2 dm ³ SO ₂ on 300 dm ³ /40 °C/1 cycle |
| Corrosive stress | - |
| Thermal stress | 100 °C/168 h |
| Power-frequency withstand voltage | 1.39 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 |
| ectrical tests | |
| Electrical properties | |
| Rated voltage (III/2) | 160 V |
| Rated surge voltage (III/2) | 2.5 kV |
| Contact resistance | 1.8 mΩ |
| Pollution degree | 2 |
| Thermal test Test group C | |
| Specification | IEC 60512-5-1:2002-02 |
| Tested number of positions | 20 |
| Insulation resistance | |
| Specification | IEC 60512-3-1:2002-02 |
| Insulation resistance, neighboring positions | > 5 MΩ |
| Air clearances and creepage distances | |
| Specification | IEC 60664-1:2007-04 |
| Insulating material group | I |
| Comparative tracking index (IEC 60112:2003-01) | CTI 600 |
| , | |



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| Poted inculation voltage (III/2) | 160 V |
|--|--------|
| Rated insulation voltage (III/3) | 100 V |
| Rated surge voltage (III/3) | 2.5 kV |
| minimum clearance value - non-homogenous field (III/3) | 1.5 mm |
| minimum creepage distance (III/3) | 2 mm |
| Rated insulation voltage (III/2) | 160 V |
| Rated surge voltage (III/2) | 2.5 kV |
| minimum clearance value - non-homogenous field (III/2) | 1.5 mm |
| minimum creepage distance (III/2) | 1.5 mm |
| Rated insulation voltage (II/2) | 320 V |
| Rated surge voltage (II/2) | 2.5 kV |
| minimum clearance value - non-homogenous field (II/2) | 1.5 mm |
| minimum creepage distance (II/2) | 1.6 mm |

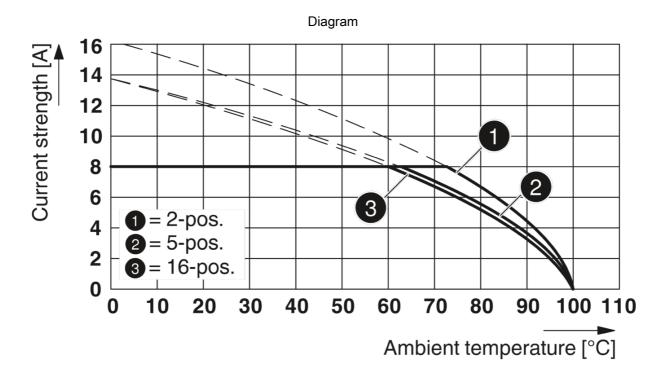
Packaging specifications

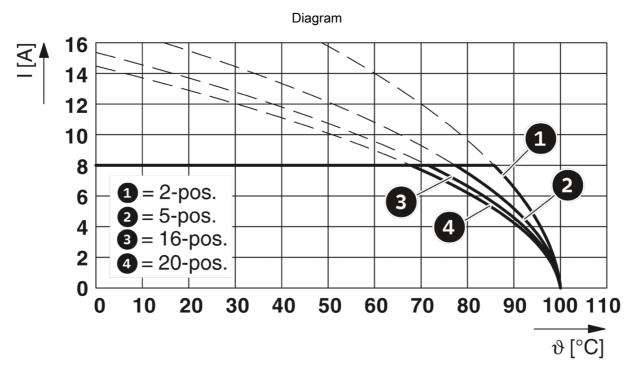


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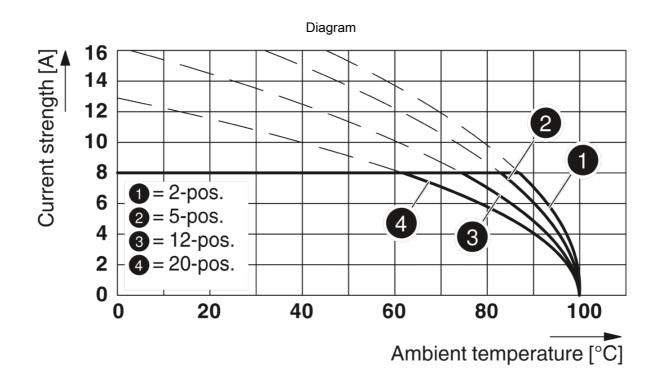
Drawings

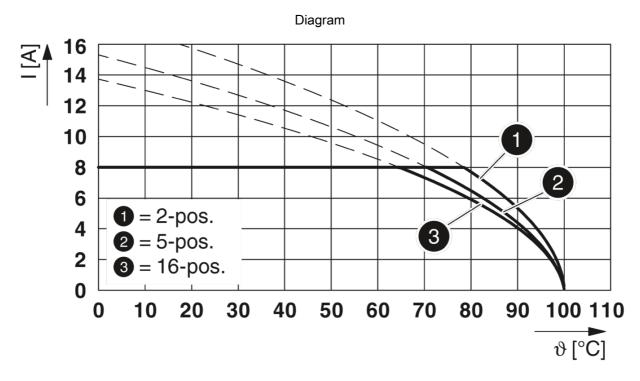






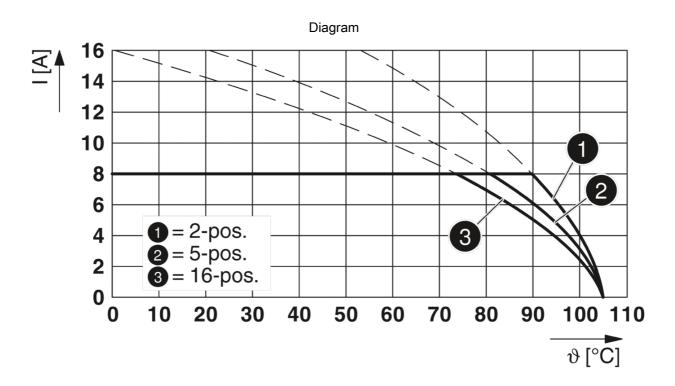
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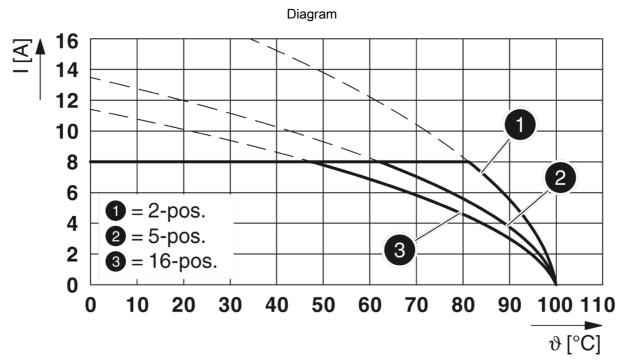






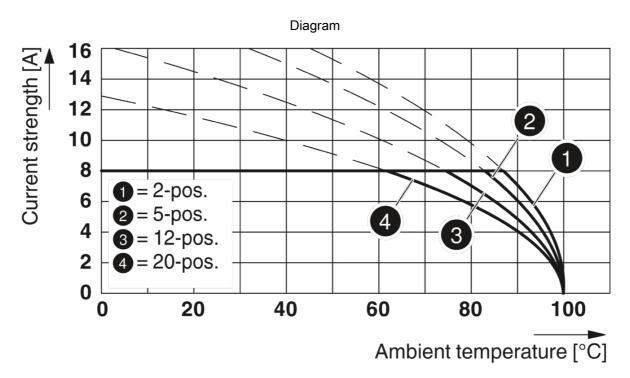
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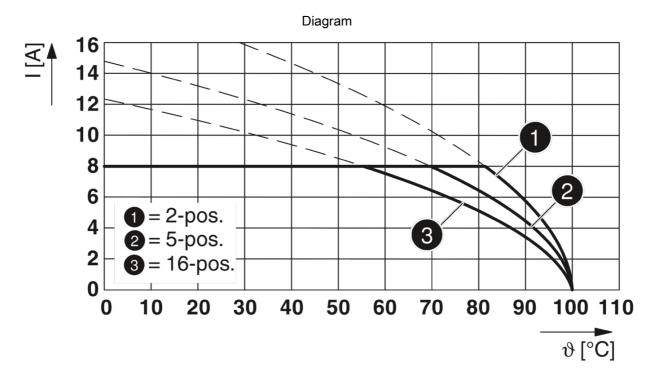




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Type: FMC 1,5/...-STF-3,81 with MCV 1,5/...-GF-3,81 P... THR

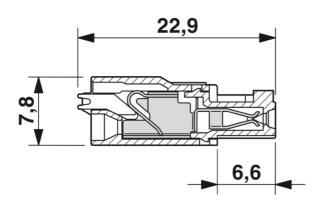


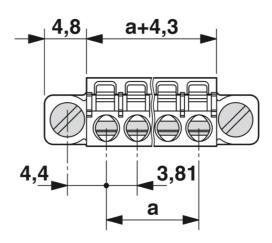


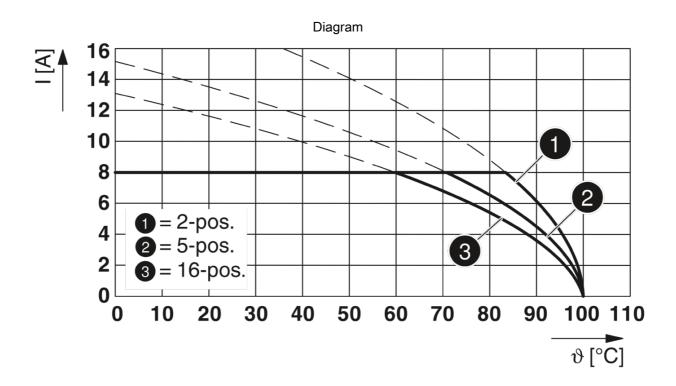
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Dimensional drawing

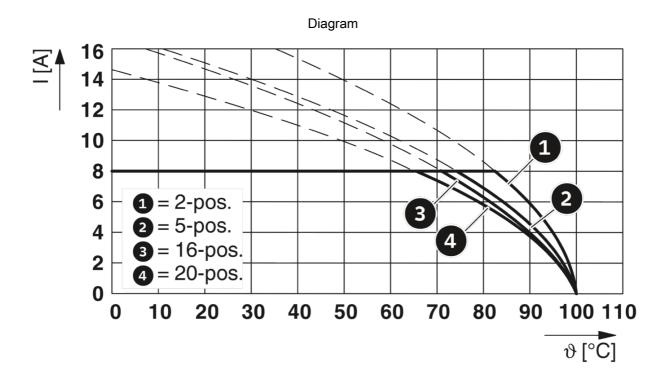








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Approvals

| IECEE CB Scheme | Nominal Voltage U _N | Nominal Current I _N | Cross Section AWG | Cross Section mm ² |
|-----------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
| | 160 V | 8 A | - | 0.2 - 1.5 |

EAC III

| cULus Recognized | Nominal Voltage U _N | Nominal Current I _N | Cross Section AWG | Cross Section mm ² |
|------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
| Use group B | | | | |
| | 300 V | 8 A | 24 - 16 | - |
| Use group C | | | | |
| Factory wiring | 50 V | 8 A | 24 - 16 | - |

| VDE Gutachten mit Fertigungsüberwachung | Nominal Voltage U _N | Nominal Current I _N | Cross Section AWG | Cross Section mm ² |
|---|--------------------------------|--------------------------------|-------------------|-------------------------------|
| | 160 V | 8 A | - | 0.2 - 1.5 |



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Classifications

UNSPSC 21.0

ECLASS

| | ECLASS-9.0 | 27440309 | |
|--------|---------------|----------|--|
| | ECLASS-10.0.1 | 27440309 | |
| | ECLASS-11.0 | 27460202 | |
| ETIM | | | |
| | ETIM 6.0 | EC002638 | |
| UNSPSC | | | |
| | UNSPSC 19.0 | 39121409 | |
| | UNSPSC 20.0 | 39121409 | |

39121409



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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

Marker card

Marker card - SK 3,81/2,8:FORTL.ZAHLEN - 0804109



Marker card, 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: 3. 81 mm, lettering field size: 3.81 x 2.8 mm

Screwdriver

Screwdriver - SZS 0,4X2,5 VDE - 1205037



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



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PCB header

PCB header - MCD 1,5/ 2-GF-3,81 - 1830101



PCB headers, nominal cross section: 1.5 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Male connector, number of potentials: 4, number of rows: 2, number of positions: 2, number of connections: 4, product range: MCD 1,5/..-GF, pitch: 3.81 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.5 mm, number of solder pins per potential: 1, plug-in system: MINI COMBICON, Pin connector pattern alignment: Standard, Locking: Screw locking, mounting: Threaded flange, type of packaging: packed in cardboard, In combination with MCV plug components, both an MCVW and an MCVR plug must be used.

PCB header

PCB header - MC 1,5/ 3-GF-3,81 THT - 1908884

PCB headers, color: black, contact surface: Tin, number of positions: 3, product range: MC 1,5/..-GF-THT, pitch: 3.81 mm, pin layout: Linear pinning, type of packaging: packed in cardboard, User information and design recommendations for through hole reflow technology can be found under: Downloads





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PCB header

PCB header - MCDV 1,5/ 2-GF-3,81 - 1830253



PCB headers, nominal cross section: 1.5 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Male connector, number of potentials: 4, number of rows: 2, number of positions: 2, number of connections: 4, product range: MCDV 1,5/..-GF, pitch: 3.81 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.4 mm, number of solder pins per potential: 1, plug-in system: MINI COMBICON, Pin connector pattern alignment: Standard, Locking: Screw locking, mounting: Threaded flange, type of packaging: packed in cardboard, In combination with MCV plug components, both an MCVW and an MCVR plug must be used.

PCB header

PCB header - MC 1,5/ 3-GF-3,81 THT-R56 - 1996540



PCB headers, color: black, contact surface: Tin, number of positions: 3, product range: MC 1,5/..-GF-THT, pitch: 3.81 mm, pin layout: Linear pinning, User information and design recommendations for through hole reflow technology can be found under: Downloads



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PCB header

PCB header - MCDV 1,5/ 2-G1F-3,81 - 1842762

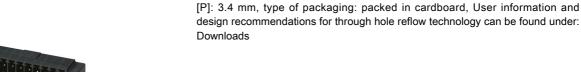


PCB headers, nominal cross section: 1.5 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Male connector, number of potentials: 4, number of rows: 2, number of positions: 2, number of connections: 4, product range: MCDV 1,5/..-G1F, pitch: 3.81 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.4 mm, number of solder pins per potential: 1, plug-in system: MINI COMBICON, Pin connector pattern alignment: Standard, Locking: Screw locking, mounting: Threaded flange, type of packaging: packed in cardboard, In combination with MCV plug components, both an MCVW and an MCVR plug must be used.

PCB headers, color: black, contact surface: Tin, number of positions: 2, product range: MC 1,5/..-GF-THT, pitch: 3.81 mm, pin layout: Linear pinning, solder pin

PCB header

PCB header - MC 1,5/ 2-GF-3,81 THT - 1908871







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PCB header

PCB header - MC 1,5/ 2-GF-3,81 THT-R32 - 1996537



PCB headers, color: black, contact surface: Tin, number of positions: 2, product range: MC 1,5/..-GF-THT, pitch: 3.81 mm, pin layout: Linear pinning, User information and design recommendations for through hole reflow technology can be found under: Downloads

Printed-circuit board connector

Printed-circuit board connector - MCV 1,5/ 3-GF-3,81 P14 THR - 1707227



PCB headers, nominal cross section: 1.5 mm², color: black, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Male connector, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: MCV 1,5/..-GF-THR, pitch: 3.81 mm, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 1.4 mm, number of solder pins per potential: 1, plug-in system: MINI COMBICON, Pin connector pattern alignment: Standard, Locking: Screw locking, mounting: Threaded flange, type of packaging: packed in cardboard, User information and design recommendations for through hole reflow technology can be found under: Downloads



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Printed-circuit board connector

Printed-circuit board connector - MCV 1,5/ 2-GF-3,81 P14 THR - 1707214



PCB headers, nominal cross section: 1.5 mm², color: black, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Male connector, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: MCV 1,5/..-GF-THR, pitch: 3.81 mm, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 1.4 mm, number of solder pins per potential: 1, plug-in system: MINI COMBICON, Pin connector pattern alignment: Standard, Locking: Screw locking, mounting: Threaded flange, type of packaging: packed in cardboard, User information and design recommendations for through hole reflow technology can be found under: Downloads

Printed-circuit board connector

Printed-circuit board connector - MCV 1,5/ 3-GF-3,81 P26 THR - 1707641



PCB headers, nominal cross section: 1.5 mm², color: black, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Male connector, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: MCV 1,5/..-GF-THR, pitch: 3.81 mm, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 2.6 mm, number of solder pins per potential: 1, plug-in system: MINI COMBICON, Pin connector pattern alignment: Standard, Locking: Screw locking, mounting: Threaded flange, type of packaging: packed in cardboard, User information and design recommendations for through hole reflow technology can be found under: Downloads



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Printed-circuit board connector

Printed-circuit board connector - MCV 1,5/ 2-GF-3,81 P26 THR - 1707638



PCB headers, nominal cross section: 1.5 mm², color: black, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Male connector, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: MCV 1,5/..-GF-THR, pitch: 3.81 mm, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 2.6 mm, number of solder pins per potential: 1, plug-in system: MINI COMBICON, Pin connector pattern alignment: Standard, Locking: Screw locking, mounting: Threaded flange, type of packaging: packed in cardboard, User information and design recommendations for through hole reflow technology can be found under: Downloads

Printed-circuit board connector

Printed-circuit board connector - MCV 1,5/ 2-GF-3,81 - 1830596



PCB headers, nominal cross section: 1.5 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Male connector, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: MCV 1,5/..-GF, pitch: 3.81 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.4 mm, number of solder pins per potential: 1, plug-in system: MINI COMBICON, Pin connector pattern alignment: Standard, Locking: Screw locking, mounting: Threaded flange, type of packaging: packed in cardboard



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Printed-circuit board connector

Printed-circuit board connector - MCD 1,5/ 2-G1F-3,81 - 1842911



PCB headers, nominal cross section: 1.5 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Male connector, number of potentials: 4, number of rows: 2, number of positions: 2, number of connections: 4, product range: MCD 1,5/..-G1F, pitch: 3.81 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.5 mm, number of solder pins per potential: 1, plug-in system: MINI COMBICON, Pin connector pattern alignment: Standard, Locking: Screw locking, mounting: Threaded flange, type of packaging: packed in cardboard, In combination with MCV plug components, both an MCVW and an MCVR plug must be used.

Crimping pliers

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

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