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# Printed-circuit board connector - MC 1,5/ 6-ST-3,81 BD:1-6 - 1848818

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PCB connector, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 6, pitch: 3.81 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin

The figure shows a 10-position version of the product

## Why buy this product

- Well-known connection principle allows worldwide use
- Low temperature rise, thanks to maximum contact force
- Allows connection of two conductors


## Key Commercial Data

| | |
|---|---|
| Packing unit | 50 STK |
| GTIN | 4 017918 366384 |
| GTIN | 4017918366384 |

## Technical data

### Dimensions

| | |
|---|---|
| Length [ l ] | 16.1 mm |
| Width [ w ] | 23.65 mm |
| Height [ h ] | 11.1 mm |
| Pitch | 3.81 mm |
| Dimension a | 19.05 mm |

### General

| | |
|---|---|
| Range of articles | MC 1,5/..-ST |
| Type of contact | Female connector |
| Number of positions | 6 |
| Connection method | Screw connection with tension sleeve |
| Insulating material group | I |

# Printed-circuit board connector - MC 1,5/ 6-ST-3,81 BD:1-6 - 1848818

## Technical data

### General

| | |
|---|---|
| Rated surge voltage (III/3) | 2.5 kV |
| Rated surge voltage (III/2) | 2.5 kV |
| Rated surge voltage (II/2) | 2.5 kV |
| Rated voltage (III/3) | 160 V |
| Rated voltage (III/2) | 160 V |
| Rated voltage (II/2) | 320 V |
| Connection in acc. with standard | EN-VDE |
| Nominal current $I_N$ | 8 A |
| Nominal cross section | 1.5 mm² |
| Maximum load current | 8 A (with 1.5 mm² conductor cross section) |
| Insulating material | PA |
| Flammability rating according to UL 94 | V0 |
| Internal cylindrical gage | A1 |
| Stripping length | 7 mm |
| Screw thread | M2 |
| Tightening torque, min | 0.22 Nm |
| Tightening torque max | 0.25 Nm |

### Connection data

| | |
|---|---|
| Conductor cross section solid min. | 0.14 mm² |
| Conductor cross section solid max. | 1.5 mm² |
| Conductor cross section flexible min. | 0.14 mm² |
| Conductor cross section flexible max. | 1.5 mm² |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.25 mm² |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 1.5 mm² |
| Conductor cross section flexible, with ferrule with plastic sleeve min. | 0.25 mm² |
| Conductor cross section flexible, with ferrule with plastic sleeve max. | 0.5 mm² |
| Conductor cross section AWG min. | 28 |
| Conductor cross section AWG max. | 16 |
| 2 conductors with same cross section, solid min. | 0.08 mm² |
| 2 conductors with same cross section, solid max. | 0.5 mm² |
| 2 conductors with same cross section, stranded min. | 0.08 mm² |
| 2 conductors with same cross section, stranded max. | 0.75 mm² |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. | 0.25 mm² |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max. | 0.34 mm² |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. | 0.5 mm² |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 0.5 mm² |
| Minimum AWG according to UL/CUL | 30 |

# Printed-circuit board connector - MC 1,5/ 6-ST-3,81 BD:1-6 - 1848818

## Technical data

### Connection data

| | |
|---|---|
| Maximum AWG according to UL/CUL | 14 |

### Standards and Regulations

| | |
|---|---|
| Connection in acc. with standard | EN-VDE |
| | CSA |
| Flammability rating according to UL 94 | V0 |

### Environmental Product Compliance

| | |
|---|---|
| REACh SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 |
| | For details about hazardous substances go to tab “Downloads”, Category “Manufacturer's declaration” |

## Approvals

### Approvals

Approvals

CSA / VDE Gutachten mit Fertigungsüberwachung / IECEE CB Scheme / cULus Recognized / EAC

Ex Approvals

### Approval details

| | | | |
|---|---|---|---|
| CSA | | http://www.csagroup.org/services-industries/product-listing/ | 13631 |

| | D | B |
|---|---|---|
| Nominal voltage UN | 300 V | 300 V |
| Nominal current IN | 8 A | 8 A |
| mm²/AWG/kcmil | 28-16 | 28-16 |

| | | | |
|---|---|---|---|
| VDE Gutachten mit Fertigungsüberwachung | | http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx | 40011723 |

| | |
|---|---|
| Nominal voltage UN | 160 V |
| Nominal current IN | 8 A |
| mm²/AWG/kcmil | 0.2-1.5 |

# Printed-circuit board connector - MC 1,5/ 6-ST-3,81 BD:1-6 - 1848818

## Approvals

| | | | |
|---|---|---|---|
| IECEE CB Scheme | CB scheme | http://www.iecee.org/ | DE1-60604-B1B2 |

| | |
|---|---|
| Nominal voltage UN | 160 V |
| Nominal current IN | 8 A |
| mm²/AWG/kcmil | 0.2-1.5 |

| | | | |
|---|---|---|---|
| cULus Recognized | c UL us | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | E60425-20110128 |

| | D | B |
|---|---|---|
| Nominal voltage UN | 300 V | 300 V |
| Nominal current IN | 8 A | 8 A |
| mm²/AWG/kcmil | 30-14 | 30-14 |

| | | |
|---|---|---|
| EAC | EAC | B.01742 |



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