

Printed-circuit board connector - MC 1,5/ 5-G-3,81 P26 THR - 1722011

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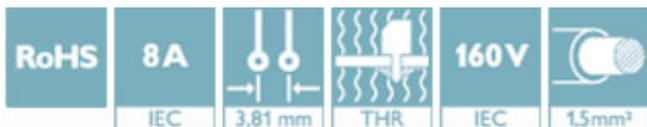
PCB headers, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 5, pitch: 3.81 mm, color: black, contact surface: Tin, mounting: THR soldering



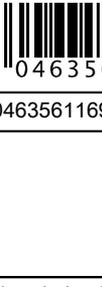
The figure shows a 10-position version of the product

Your advantages

- Designed for integration into the SMT soldering process
- Maximum flexibility when it comes to device design – one header for connectors with different connection technologies



Key Commercial Data

| | |
|--------------|--|
| Packing unit | 50 pc |
| GTIN |  4 046356 116930 |
| GTIN | 4046356116930 |

Technical data

Item properties

| | |
|---------------------------|---------------------------------|
| Brief article description | Printed-circuit board connector |
| Plug-in system | MINI COMBICON |
| Type of contact | Male connector |
| Range of articles | MC 1,5/..-G-THR |
| Pitch | 3.81 mm |
| Number of positions | 5 |
| Mounting type | THR soldering |
| Pin layout | Linear pinning |
| Locking | without |
| Number of levels | 1 |

Electrical parameters

| | |
|---------------|-----|
| Rated current | 8 A |
|---------------|-----|

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Electrical parameters

| | |
|----------------------------------|--------|
| Rated insulation voltage (III/2) | 160 V |
| Rated surge voltage (III/2) | 2.5 kV |

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 (3 - 5 µm Sn) |
| Metal surface contact area (middle layer) | Nickel (1 - 3 µm Ni) |

Material data - housing

| | |
|--|------|
| Insulating material | LCP |
| Insulating material group | IIIa |
| CTI according to IEC 60112 | 175 |
| Flammability rating according to UL 94 | V0 |

Dimensions for the product

| | |
|-----------------------------|---|
| Caption | Schematic representation – for additional information, see product range drawing in the Download Center |
| Length [l] | 9.2 mm |
| Width [w] | 20.44 mm |
| Height [h] | 9.5 mm |
| Pitch | 3.81 mm |
| Height (without solder pin) | 6.9 mm |
| Solder pin [P] | 2.6 mm |
| Pin dimensions | 0.8 x 0.8 mm |
| Dimension a | 15.24 mm |

Dimensions for PCB design

| | |
|---------------|--------|
| Hole diameter | 1.4 mm |
|---------------|--------|

Packaging information

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

Processing notes

| | |
|---|--|
| Process | Reflow/wave soldering |
| Specification | Following IPC/JEDEC J-STD-020D.1:2008-03 |
| | Following IEC 61760-1:2006-04 |
| | Following IEC 60068-2-58:2005-02 |
| Moisture Sensitive Level | MSL 1 |
| Classification temperature T _c | 260 °C |

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Processing notes

| | |
|-----------------------------|---|
| Solder cycles in the reflow | 3 |
|-----------------------------|---|

Ambient conditions

| | |
|---|------------------|
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |
| Ambient temperature (assembly) | -5 °C ... 100 °C |
| Ambient temperature (operation) | -40 °C |

Air clearances and creepage distances

| | |
|----------------------------------|--------|
| Insulating material group | IIIa |
| Voltage | 160 V |
| Rated insulation voltage (III/3) | 160 V |
| Rated insulation voltage (III/2) | 160 V |
| Rated insulation voltage (II/2) | 250 V |
| Rated surge voltage (III/3) | 2.5 kV |
| Rated surge voltage (III/2) | 2.5 kV |
| Rated surge voltage (II/2) | 2.5 kV |

Standards and Regulations

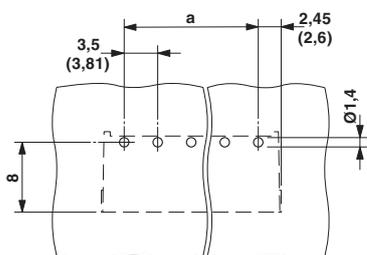
| | |
|--|--------|
| Connection in acc. with standard | EN-VDE |
| | CUL |
| Flammability rating according to UL 94 | V0 |

Environmental Product Compliance

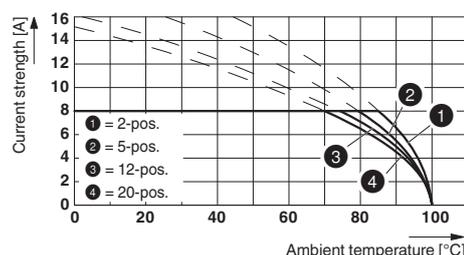
| | |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

Drawings

Drilling diagram



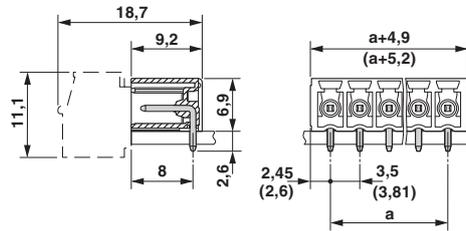
Diagram



Type: FK-MCP 1,5/...-ST(F)-3,81 with MC 1,5/...-G(F)-3,81 P.. THR(R...)

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Dimensional drawing



Approvals

Approvals

Approvals

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

Ex Approvals

Approval details

| | | | |
|--------------------|-------|---|----------------|
| IECEE CB Scheme | | http://www.iecee.org/ | DE1-60987-B1B2 |
| Nominal voltage UN | 160 V | | |
| Nominal current IN | 8 A | | |

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

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

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Approvals

| | | |
|--------------------|---|---|
| cULus Recognized |  | 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 |

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