

# Printed-circuit board connector - MC 1,5/10-G-3,81 P26 THRR56 - 1782543

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PCB headers, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 10, 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           | 470 pc                                                                                                  |
| Minimum order quantity | 470 pc                                                                                                  |
| GTIN                   | <br>4 046356 550352 |
| GTIN                   | 4046356550352                                                                                           |

## 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       | 10                              |
| Mounting type             | THR soldering                   |
| Pin layout                | Linear pinning                  |
| Locking                   | without                         |
| Number of levels          | 1                               |

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## Technical data

### Electrical parameters

|                                  |        |
|----------------------------------|--------|
| Rated current                    | 8 A    |
| 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 ]                 | 39.49 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                 | 34.29 mm                                                                                                |

### Dimensions for PCB design

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

### Packaging information

|                             |                 |
|-----------------------------|-----------------|
| Type of packaging           | 56 mm wide tape |
| Pieces per package          | 470             |
| Denomination packing units  | Pcs.            |
| [W] tape width              | 56 mm           |
| [A] coil diameter           | 330 mm          |
| [W2] coil overall dimension | 62.4 mm         |
| Outer packaging type        | Transparent-Bag |

### Processing notes

# Printed-circuit board connector - MC 1,5/10-G-3,81 P26 THRR56 - 1782543

## Technical data

### 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 <sub>c</sub> | 260 °C                                   |
| 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     |

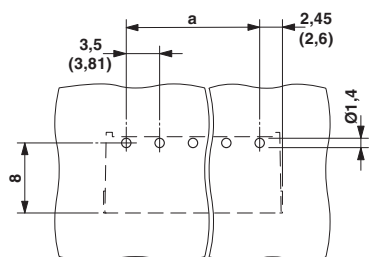
### Environmental Product Compliance

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

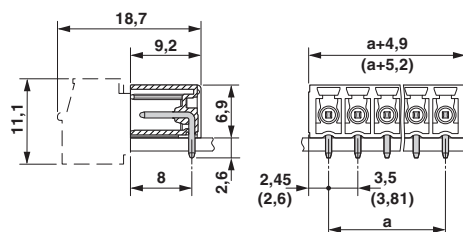
## Drawings

# Printed-circuit board connector - MC 1,5/10-G-3,81 P26 THRR56 - 1782543

Drilling diagram



Dimensional drawing



## Approvals

### Approvals

#### Approvals

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

#### Ex Approvals

### Approval details

|                    |                     |                                                           |                |
|--------------------|---------------------|-----------------------------------------------------------|----------------|
| IECEE CB Scheme    | <b>CB</b><br>scheme | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-60987-B1B2 |
| Nominal voltage UN | 160 V               |                                                           |                |
| Nominal current IN | 8 A                 |                                                           |                |

|                                            |            |                                                                                                                                                                                                                |          |
|--------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| VDE Gutachten mit<br>Fertigungsüberwachung | <b>VDE</b> | <a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/<br/>VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a> | 40011723 |
| Nominal voltage UN                         | 160 V      |                                                                                                                                                                                                                |          |
| Nominal current IN                         | 8 A        |                                                                                                                                                                                                                |          |

|     |            |         |  |
|-----|------------|---------|--|
| EAC | <b>EAC</b> | B.01742 |  |
|-----|------------|---------|--|

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### Approvals

|                                                                                                                                                                                                                                                                          |       |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|
| cULus Recognized  <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> E60425-20110128 |       |       |
|                                                                                                                                                                                                                                                                          | D     | B     |
| Nominal voltage UN                                                                                                                                                                                                                                                       | 300 V | 300 V |
| Nominal current IN                                                                                                                                                                                                                                                       | 8 A   | 8 A   |

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