

# Printed-circuit board connector - DMC 1,5/ 6-G1-3,5 P26THR - 1873976

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PCB headers, nominal current: 8 A, rated voltage (III/2): 160 V, nominal cross section: 1.5 mm<sup>2</sup>, number of positions: 6, pitch: 3.5 mm, color: black, contact surface: Tin, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 2.6 mm




The figure shows a 10-pos. version with 20 contacts

## Your advantages

- Designed for integration into the SMT soldering process
- Conductor connection on several levels enables higher contact density
- Small component size for applications where space is at a premium



## Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 50 pc   |
| GTIN         | <br>4 055626 259253 |
| GTIN         | 4055626259253   |

## Technical data

### Item properties

|                           |                          |
|---------------------------|--------------------------|
| Brief article description | Feed-through header      |
| Plug-in system            | MINI COMBICON - DFMC 1,5 |
| Type of contact           | Male connector           |
| Range of articles         | DMC 1,5/...G1-THR        |
| Pitch                     | 3.5 mm                   |
| Number of positions       | 6                        |
| Mounting type             | THR soldering            |
| Pin layout                | Linear pinning           |
| Locking                   | without                  |
| Number of levels          | 2                        |
| Number of connections     | 12                       |
| Number of potentials      | 12                       |

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## Technical data

### Electrical parameters

|                             |        |
|-----------------------------|--------|
| Nominal current             | 8 A    |
| Nom. voltage                | 160 V  |
| Rated voltage               | 160 V  |
| Rated voltage (III/2)       | 160 V  |
| Rated 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 |

### 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),   |
| Metal surface soldering area (top layer)    | Tin (3 - 5 µm Sn)   |
| Metal surface soldering area (middle layer) | Nickel (1 - 3 µm Ni)  |

### Material data - housing

|  |              |
|--|--------------|
| Housing color                          | black (9005) |
| Insulating material                    | LCP          |
| Insulating material group              | IIIa         |
| CTI according to IEC 60112             | 175          |
| Flammability rating according to UL 94 | V0           |

### Dimensions for the product

|                             |              |
|-----------------------------|--------------|
| Length [ l ]                | 11.6 mm      |
| Width [ w ]                 | 21.8 mm      |
| Height [ h ]                | 13.4 mm      |
| Pitch                       | 3.5 mm       |
| Height (without solder pin) | 10.8 mm      |
| Solder pin [P]              | 2.6 mm       |
| Pin spacing                 | 2.50 mm      |
| Pin dimensions              | 0.8 x 0.8 mm |

### Dimensions for PCB design

|               |         |
|---------------|---------|
| Hole diameter | 1.4 mm  |
| Pin spacing   | 2.50 mm |

### Packaging information

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

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## 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 $T_c$ | 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 ... 100 °C (dependent on the derating curve) |

### 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) | 1.5 mm              |
| Minimum clearance - inhomogeneous field (III/2) | 1.5 mm              |
| Minimum clearance - inhomogeneous field (II/2)  | 1.5 mm              |
| Minimum creepage distance value (III/3)         | 2.5 mm              |
| Minimum creepage distance value (III/2)         | 1.6 mm              |
| Minimum creepage distance value (II/2)          | 2.5 mm              |

### Mechanical tests (A)

|  |             |
|--|-------------|
| Test specification                           | IEC 61984   |
| Insertion strength per pos. approx.          | 3 N         |
| Withdraw strength per pos. approx.           | 2 N         |
| Polarization when inserted requirement >20 N | Test passed |
| Contact holder in insert requirements >20 N  | Test passed |

### Durability tests (B)

|  |                       |
|--|-----------------------|
| Specification                                | IEC 60512-9-1:2010-03 |
| Contact resistance $R_1$                     | 2 mΩ                  |
| Insertion/withdrawal cycles                  | 25                    |
| Contact resistance $R_2$                     | 2.3 mΩ                |
| Impulse withstand voltage at sea level       | 2.95 kV               |
| Power-frequency withstand voltage            | 1.39 kV               |
| Insulation resistance, neighboring positions | > 12 TΩ               |

### Thermal tests (C)

|                         |                       |
|-------------------------|-----------------------|
| Specification           | IEC 60512-5-1:2002-02 |
| Number of positions     | 20                    |
| Conductor cross section | 1.5 mm <sup>2</sup>   |

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## Technical data

### Thermal tests (C)

|   |             |
|---|-------------|
| Test current                                    | 8 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 <sup>3</sup> SO <sub>2</sub> on 300 dm <sup>3</sup> /40 °C/1 cycle |
| Impulse withstand voltage at sea level | 2.95 kV   |
| Power-frequency withstand voltage      | 1.39 kV   |

### Environmental and durability tests (E)

|                                       |                                     |
|---------------------------------------|-------------------------------------|
| Specification                         | IEC 61984:2008-10                   |
| Result, degree of protection, IP code | Finger safety with IP20 test finger |

### Vibration test

|                        |                        |
|------------------------|------------------------|
| Specification          | IEC 60068-2-6:2007-12  |
| Result                 | Test passed            |
| Frequency              | 10 - 150 - 10 Hz       |
| Sweep speed            | 1 octave/min           |
| Amplitude              | 0.35 mm (10 - 60.1 Hz) |
| Acceleration           | 5 g (60.1 - 150 Hz)    |
| Test duration per axis | 2.5 h                  |

### Standards and Regulations

|  |    |
|--|----|
| Flammability rating according to UL 94 | V0 |
|--|----|

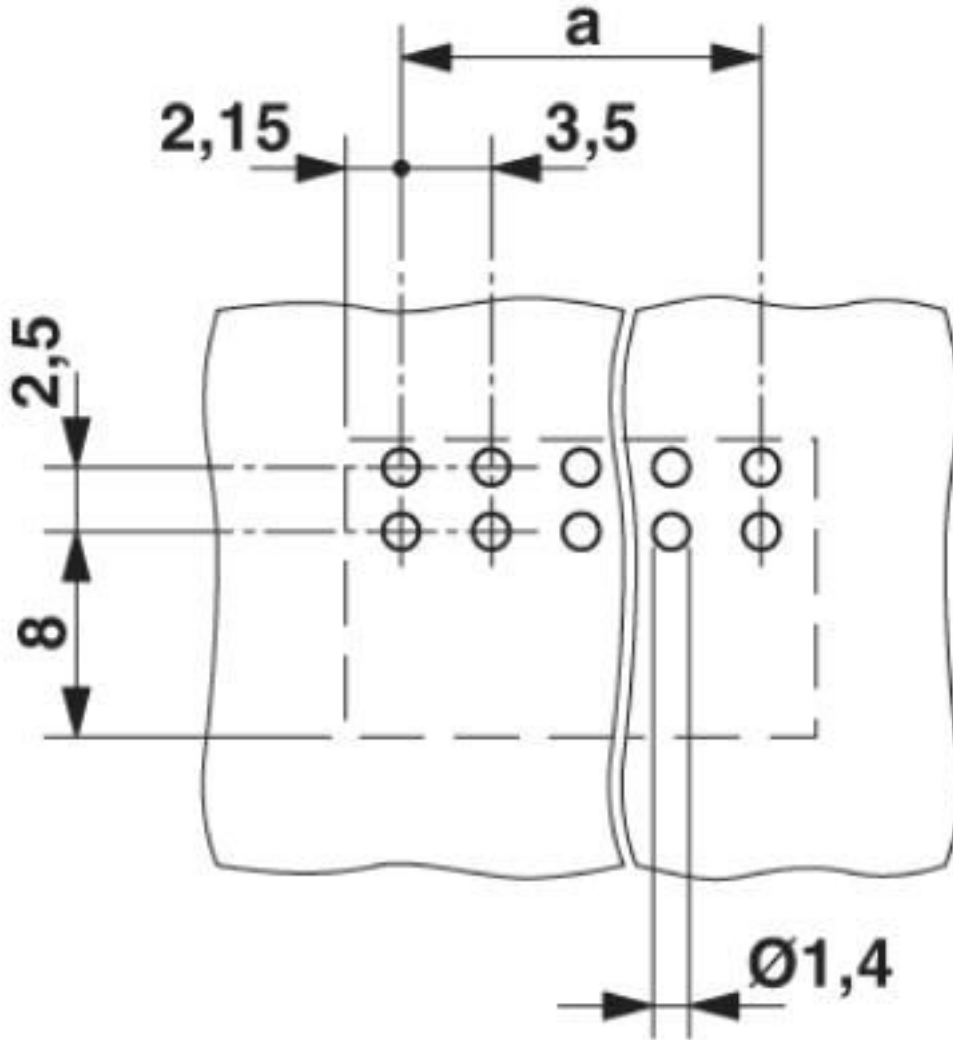
### Environmental Product Compliance

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

## Drawings

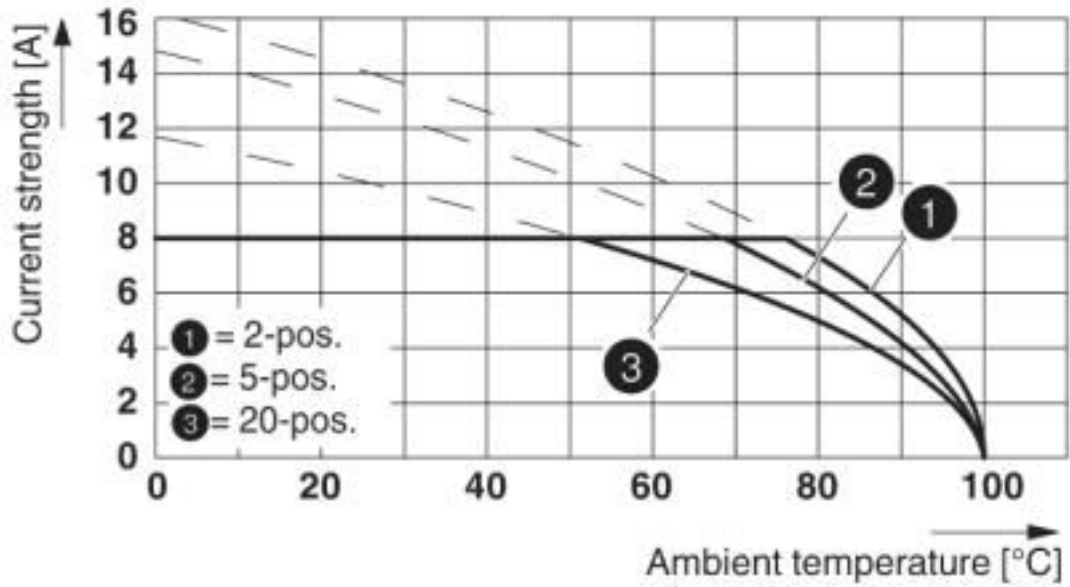
# Printed-circuit board connector - DMC 1,5/ 6-G1-3,5 P26THR - 1873976

Drilling diagram

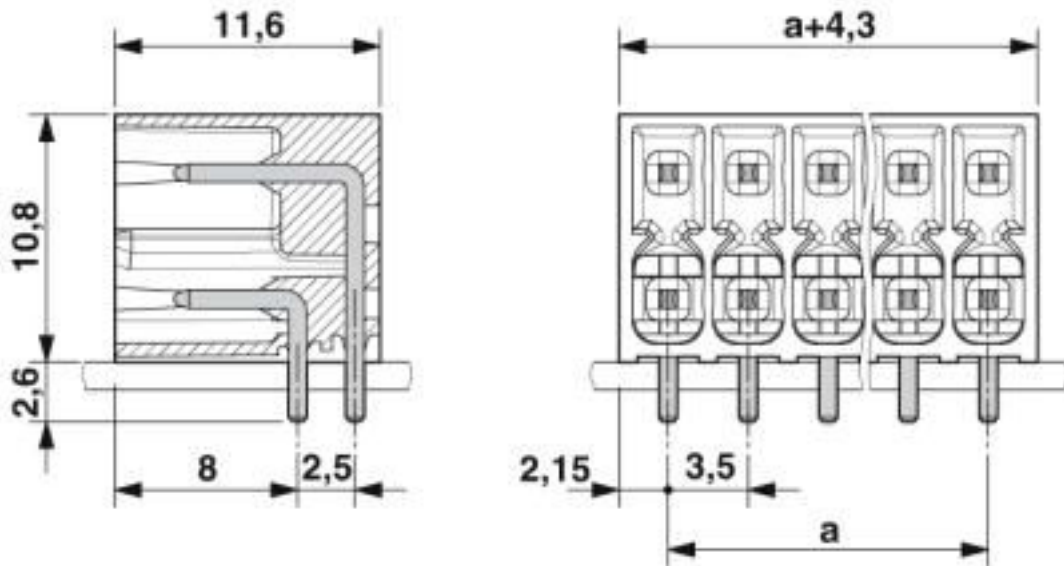


# Printed-circuit board connector - DMC 1,5/ 6-G1-3,5 P26THR - 1873976

Diagram

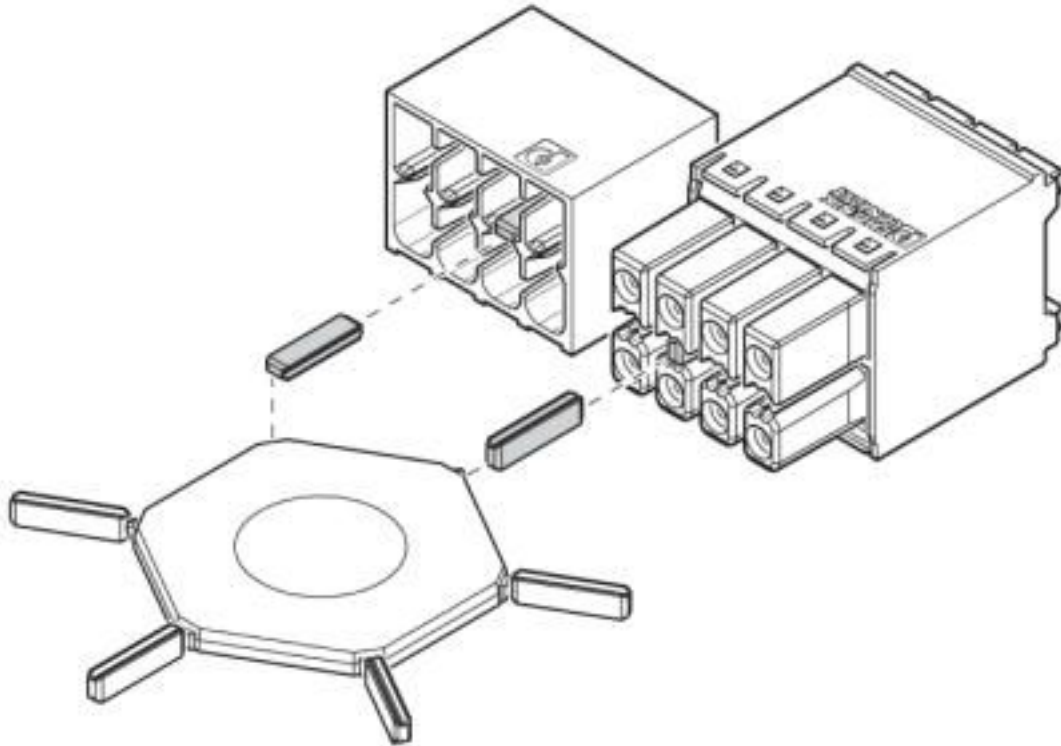


Dimensional drawing



# Printed-circuit board connector - DMC 1,5/ 6-G1-3,5 P26THR - 1873976

Schematic diagram



## Classifications

### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27440402 |
| 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    | 27440402 |
| eCl@ss 8.0    | 27440402 |
| eCl@ss 9.0    | 27440402 |

### ETIM

|          |          |
|----------|----------|
| ETIM 4.0 | EC002637 |
| ETIM 5.0 | EC002637 |
| ETIM 6.0 | EC002637 |
| ETIM 7.0 | EC002637 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211810 |
| UNSPSC 7.0901 | 39121409 |

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## Classifications

### UNSPSC

|              |          |
|--------------|----------|
| UNSPSC 11    | 39121409 |
| UNSPSC 12.01 | 39121409 |
| UNSPSC 13.2  | 39121409 |
| UNSPSC 18.0  | 39121409 |
| UNSPSC 19.0  | 39121409 |
| UNSPSC 20.0  | 39121409 |
| UNSPSC 21.0  | 39121409 |

## Approvals


### Approvals


#### Approvals


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

#### Ex Approvals

### Approval details

|                    |   |   |                 |
|--------------------|---|---|-----------------|
| IECEE CB Scheme    |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-60359_B1_B2 |
| Nominal voltage UN | 160 V   |   |                 |
| Nominal current IN | 8 A   |   |                 |

|   |   |   |          |
|---|---|---|----------|
| VDE Gutachten mit Fertigungsüberwachung |  | <a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a> | 40038423 |
| Nominal voltage UN                      | 160 V   |   |          |
| Nominal current IN                      | 8 A   |   |          |

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



# Printed-circuit board connector - DMC 1,5/ 6-G1-3,5 P26THR - 1873976

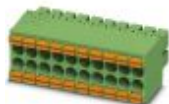
## Approvals

|                    |       |   |                 |
|--------------------|-------|---|-----------------|
| 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 |
|                    | B     | C   | D               |
| Nominal voltage UN | 150 V | 50 V  | 300 V           |
| Nominal current IN | 8 A   | 8 A   | 8 A             |

## Accessories

### Additional products

Printed-circuit board connector - DFMC 1,5/ 6-ST-3,5 - 1790140



Plug, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 6 with 12 contacts, pitch: 3.5 mm, connection method: spring-cage connection, color: green, contact surface: tin

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