

# Printed-circuit board connector - DMCV 1,5/ 3-G1F-3,5-LR P20THR - 1787409

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Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 3, Pitch: 3.5 mm, Color: black, Contact surface: Tin, Mounting: THR soldering



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

## Why buy this product

- ✓ Designed for integration into the SMT soldering process
- ✓ Vertical connection enables multi-row arrangement on the PCB
- ✓ Screwable flange for superior mechanical stability
- ✓ Automatic locking and intuitive release through Lock and Release operating lever in contrasting color
- ✓ Small component size for applications where space is at a premium



## Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 50 STK                                                                                                  |
| Minimum order quantity               | 50 STK                                                                                                  |
| GTIN                                 | <br>4 046356 597029 |
| GTIN                                 | 4046356597029                                                                                           |
| Weight per Piece (excluding packing) | 2.140 g                                                                                                 |
| Custom tariff number                 | 85366990                                                                                                |
| Country of origin                    | Germany                                                                                                 |

## Technical data

### Dimensions

|                       |         |
|-----------------------|---------|
| Length                | 10.6 mm |
| Pitch                 | 3.5 mm  |
| Dimension a           | 7 mm    |
| Width                 | 17.5 mm |
| Constructional height | 10 mm   |

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## Technical data

### Dimensions

|                          |           |
|--------------------------|-----------|
| Height                   | 12 mm     |
| Length of the solder pin | 2 mm      |
| Pin dimensions           | 0,8 x 0,8 |
| Pin spacing              | 5.50 mm   |
| Hole diameter            | 1.4 mm    |

### General

|                                        |                     |
|----------------------------------------|---------------------|
| Range of articles                      | DMCV 1,5/...G1F-THR |
| Insulating material group              | IIIa                |
| 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)                   | 250 V               |
| Connection in acc. with standard       | EN-VDE              |
| Nominal current $I_N$                  | 8 A                 |
| Maximum load current                   | 8 A                 |
| Insulating material                    | LCP                 |
| Flammability rating according to UL 94 | V0                  |
| Color                                  | black               |
| Number of positions                    | 3                   |

### Standards and Regulations

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

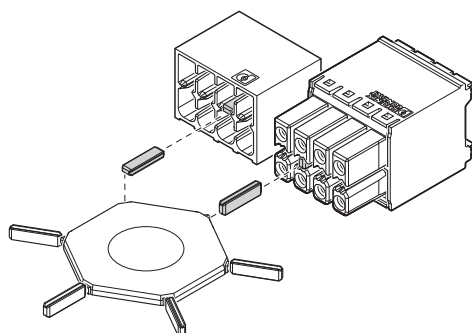
### Environmental Product Compliance

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

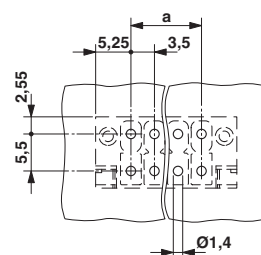
## Drawings

# Printed-circuit board connector - DMCV 1,5/ 3-G1F-3,5-LR P20THR - 1787409

Schematic diagram

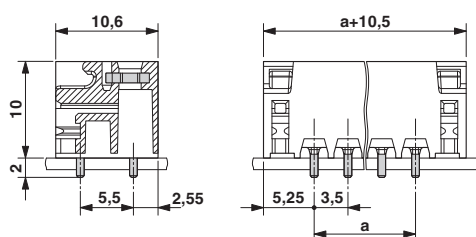


Drilling diagram

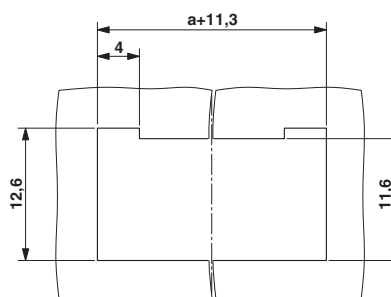


Use of the CP-DMC... coding profile

Dimensional drawing



Schematic diagram



Panel cutout

## Classifications

eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 272607xx |
| eCl@ss 4.1 | 27260701 |
| eCl@ss 5.0 | 27260701 |
| eCl@ss 5.1 | 27260701 |
| eCl@ss 6.0 | 27260704 |
| 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 |

UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 6.01 | 30211810 |
|-------------|----------|

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## Classifications

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 7.0901 | 39121409 |
| UNSPSC 11     | 39121409 |
| UNSPSC 12.01  | 39121409 |
| UNSPSC 13.2   | 39121409 |

## Approvals

### Approvals

#### Approvals

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

#### Ex Approvals

### Approval details

|                                            |                                                                                     |                                                                                                                                                                                                              |          |
|--------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| VDE Gutachten mit<br>Fertigungsüberwachung |  | <a href="http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx">http://www.vde.com/en/Institute/OnlineService/<br/>VDE-approved-products/Pages/Online-Search.aspx</a> | 40038423 |
| Nominal current I <sub>N</sub>             | 8 A                                                                                 |                                                                                                                                                                                                              |          |
| Nominal voltage U <sub>N</sub>             | 160 V                                                                               |                                                                                                                                                                                                              |          |

|                                |                                                                                     |                                                           |                 |
|--------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------|
| IECEE CB Scheme                |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-56070_B1_B2 |
| Nominal current I <sub>N</sub> | 8 A                                                                                 |                                                           |                 |
| Nominal voltage U <sub>N</sub> | 160 V                                                                               |                                                           |                 |

|                                |                                                                                     |                                                                                                                                                       |                 |
|--------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 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                                                                                                                                                     |                 |
| Nominal current I <sub>N</sub> | 8 A                                                                                 | 8 A                                                                                                                                                   |                 |
| Nominal voltage U <sub>N</sub> | 150 V                                                                               | 50 V                                                                                                                                                  |                 |

## Printed-circuit board connector - DMCV 1,5/ 3-G1F-3,5-LR P20THR - 1787409

### Approvals

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

### Accessories

#### Accessories

#### Coding element

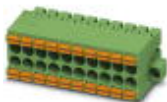
Coding profile - CP-DMC 1,5 NAT - 1790647



Coding profile, for insertion between the coding ribs of the connector and the header following the reflow soldering process, insulating material, color: natural

### Additional products

Printed-circuit board connector - DFMC 1,5/ 3-STF-3,5 - 1790302



Plug, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 3 with 6 contacts, pitch: 3.5 mm, connection method: spring-cage connection, color: green, contact surface: tin

Printed-circuit board connector - DFMC 1,5/ 3-ST-3,5-LR - 1790496



Plug, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 3 with 6 contacts, pitch: 3.5 mm, connection method: spring-cage connection, color: green, contact surface: tin