

# Feed-through header - DFK-MSTBVA 2,5/ 2-GF-5,08



1899281

<https://www.phoenixcontact.com/us/products/1899281>

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Feed-through header, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Male connector, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: DFK-MSTBVA 2,5/...-GF, pitch: 5.08 mm, pin layout: Linear pinning, solder pin [P]: 3.9 mm, number of solder pins per potential: 1, plug-in system: COMBICON MSTB 2,5, Pin connector pattern alignment: Standard, locking: Screw locking, mounting: Threaded flange, type of packaging: packed in cardboard

## Your advantages

- Cable connection on the inside of the device enables flexible positioning of the panel feed-through
- Free choice – permanent solder connection or standardized slip-on connection
- Maximum flexibility when it comes to device design – one header for connectors with different connection technologies

# Feed-through header - DFK-MSTBVA 2,5/ 2-GF-5,08



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## Commercial Data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1899281             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 50 pc               |
| Sales Key                            | A01                 |
| Product Key                          | AACWCD              |
| Catalog Page                         | Page 355 (C-1-2013) |
| GTIN                                 | 4017918186302       |
| Weight per Piece (including packing) | 4.98 g              |
| Weight per Piece (excluding packing) | 4.92 g              |
| Customs tariff number                | 85366930            |
| Country of origin                    | PL                  |

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## Technical Data

### Product properties

|                       |                       |
|-----------------------|-----------------------|
| Type                  | Feed-through header   |
| Product line          | COMBICON Connectors M |
| Product type          | Feed-through header   |
| Number of positions   | 2                     |
| Pitch                 | 5.08 mm               |
| Number of connections | 2                     |
| Number of rows        | 1                     |
| Mounting flange       | Threaded flange       |
| Number of potentials  | 2                     |
| Pin layout            | Linear pinning        |

### Electrical properties

|                             |       |
|-----------------------------|-------|
| Nominal current $I_N$       | 12 A  |
| Nominal voltage $U_N$       | 320 V |
| Pollution degree            | 3     |
| Rated voltage (III/3)       | 250 V |
| Rated surge voltage (III/3) | 4 kV  |
| Rated voltage (III/2)       | 320 V |
| Rated surge voltage (III/2) | 4 kV  |

### Mounting

|                              |                |
|------------------------------|----------------|
| Mounting type Wave soldering | Wave soldering |
| Mounting type                | Wave soldering |

#### Flange

|                   |        |
|-------------------|--------|
| Tightening torque | 0.3 Nm |
|-------------------|--------|

#### Flange

|                   |   |
|-------------------|---|
| Tightening torque | 0.3 Nm  |
| Screw             | 0708263 DFK-MSTB SS for housing walls of up to 6 mm thick |

### Material specifications

#### 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 (5 - 7 $\mu\text{m}$ Sn)   |
| Metal surface contact area (middle layer)   | Nickel (2 - 3 $\mu\text{m}$ Ni)  |
| Metal surface soldering area (top layer)    | Tin (5 - 7 $\mu\text{m}$ Sn)   |
| Metal surface soldering area (middle layer) | Nickel (2 - 3 $\mu\text{m}$ Ni)  |

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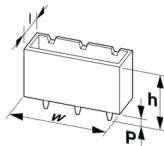
## Material data - housing

|  |              |
|--|--------------|
| Housing color                          | green (6021) |
| Insulating material                    | PBT          |
| Insulating material group              | IIIa         |
| CTI according to IEC 60112             | 225          |
| Flammability rating according to UL 94 | V0           |

## Notes

|                    |  |
|--------------------|--|
| Notes on operation | In accordance with IEC 61984, COMBICON connectors have no switching power (COC). During designated use, they must not be plugged in or disconnected when carrying voltage or under load. |
|--------------------|--|

## Dimensions

|                       |   |
|-----------------------|---|
| Dimensional drawing   |  |
| Pitch                 | 5.08 mm   |
| Width [w]             | 39.92 mm  |
| Height [h]            | 15.9 mm   |
| Length [l]            | 18.2 mm   |
| Installed height      | 12 mm   |
| Solder pin length [P] | 3.9 mm  |

## Electrical tests

### Air clearances and creepage distances |

|  |                     |
|--|---------------------|
| Specification  | IEC 60664-1:2007-04 |
| Insulating material group                              | IIIa                |
| Comparative tracking index (IEC 60112)                 | CTI 225             |
| Rated insulation voltage (III/3)                       | 250 V               |
| Rated surge voltage (III/3)                            | 4 kV                |
| minimum clearance value - non-homogenous field (III/3) | 3 mm                |
| minimum creepage distance (III/3)                      | 4 mm                |
| Rated insulation voltage (III/2)                       | 320 V               |
| Rated surge voltage (III/2)                            | 4 kV                |
| minimum clearance value - non-homogenous field (III/2) | 3 mm                |
| minimum creepage distance (III/2)                      | 3.2 mm              |
| Rated insulation voltage (II/2)                        | 400 V               |
| Rated surge voltage (II/2)                             | 4 kV                |
| minimum clearance value - non-homogenous field (II/2)  | 3 mm                |
| minimum creepage distance (II/2)                       | 4 mm                |

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## Environmental and real-life conditions

### Ambient conditions

|   |   |
|---|---|
| Ambient temperature (operation)         | -40 °C ... 100 °C (dependent on the derating curve) |
| Ambient temperature (storage/transport) | -40 °C ... 70 °C                                    |
| Relative humidity (storage/transport)   | 30 % ... 70 %                                       |
| Ambient temperature (assembly)          | -5 °C ... 100 °C                                    |

## Packaging specifications

|                   |                     |
|-------------------|---------------------|
| Type of packaging | packed in cardboard |
|-------------------|---------------------|

## Packaging specifications

|                   |                     |
|-------------------|---------------------|
| Type of packaging | packed in cardboard |
|-------------------|---------------------|


# Feed-through header - DFK-MSTBVA 2,5/ 2-GF-5,08





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## Approvals

|   |                             |                                |                                |                               |
|---|-----------------------------|--------------------------------|--------------------------------|-------------------------------|
|  | <b>IECEE CB Scheme</b>      |                                |                                |                               |
|   | Approval ID: DE1-60988-B1B2 |                                |                                |                               |
|   |                             | Nominal Voltage U <sub>N</sub> | Nominal Current I <sub>N</sub> | Cross Section AWG             |
|   |                             | 250 V                          | 12 A                           | -                             |
|   |                             |                                |                                | Cross Section mm <sup>2</sup> |
|   |                             |                                |                                | -                             |

|   |                      |
|---|----------------------|
|  | <b>EAC</b>           |
|   | Approval ID: B.01687 |

|   |                              |                                |                                |                               |
|---|------------------------------|--------------------------------|--------------------------------|-------------------------------|
|  | <b>cULus Recognized</b>      |                                |                                |                               |
|   | Approval ID: E60425-19931011 |                                |                                |                               |
|   |                              | Nominal Voltage U <sub>N</sub> | Nominal Current I <sub>N</sub> | Cross Section AWG             |
| Use group B   |                              |                                |                                | Cross Section mm <sup>2</sup> |
|   |                              | 300 V                          | 12 A                           | -                             |
| Use group D   |                              |                                |                                |                               |
|   |                              | 300 V                          | 10 A                           | -                             |
|   |                              |                                |                                | -                             |

|   |                               |                                |                                |                               |
|---|-------------------------------|--------------------------------|--------------------------------|-------------------------------|
|  | <b>VDE Zeichengenehmigung</b> |                                |                                |                               |
|   | Approval ID: 40050648         |                                |                                |                               |
|   |                               | Nominal Voltage U <sub>N</sub> | Nominal Current I <sub>N</sub> | Cross Section AWG             |
|   |                               | 250 V                          | 12 A                           | -                             |
|   |                               |                                |                                | Cross Section mm <sup>2</sup> |
|   |                               |                                |                                | -                             |

# Feed-through header - DFK-MSTBVA 2,5/ 2-GF-5,08



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## Classifications

### ECLASS

|               |          |
|---------------|----------|
| ECLASS-9.0    | 27440402 |
| ECLASS-10.0.1 | 27440402 |
| ECLASS-11.0   | 27460201 |

### ETIM

|          |          |
|----------|----------|
| ETIM 8.0 | EC002637 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

Environmental Product Compliance

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



# Feed-through header - DFK-MSTBVA 2,5/ 2-GF-5,08



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## Accessories

### Screw set

Screw set - DFK-MSTB-SS - 0708263

<https://www.phoenixcontact.com/us/products/0708263>



Screw set, for securing the header to the device wall, consists of an M3 x 10 screw, with a spring washer and a nut

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### Coding section

Coding section - CR-MSTB - 1734401

<https://www.phoenixcontact.com/us/products/1734401>



Coding section, inserted into the recess in the header or the inverted plug, red insulating material

# Feed-through header - DFK-MSTBVA 2,5/ 2-GF-5,08



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<https://www.phoenixcontact.com/us/products/1899281>

## Accessories

Accessories - MSTB-BL - 1755477

<https://www.phoenixcontact.com/us/products/1755477>



Keying cap, for forming sections, plugs onto header pin, green insulating material

## PCB connector

PCB connector - TVMSTB 2,5/ 2-STF-5,08 - 1719095

<https://www.phoenixcontact.com/us/products/1719095>



PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 400 V, contact surface: Tin, type of contact: Female connector, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 4, product range: TVMSTB 2,5/...-STF, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 90 °, locking clip: - without locking clip, plug-in system: COMBICON MSTB 2,5, locking: Screw locking, mounting: Screw flange, type of packaging: packed in cardboard

# Feed-through header - DFK-MSTBVA 2,5/ 2-GF-5,08



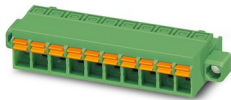
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## PCB connector

PCB connector - FKCN 2,5/ 2-STF-5,08 - 1754791

<https://www.phoenixcontact.com/us/products/1754791>



PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Female connector, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: FKCN 2,5/...-STF, pitch: 5.08 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: Screw locking, mounting: Screw flange, type of packaging: packed in cardboard

## PCB connector

PCB connector - FRONT-MSTB 2,5/ 2-STF-5,08 - 1777808

<https://www.phoenixcontact.com/us/products/1777808>



PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Female connector, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: FRONT-MSTB 2,5/...-STF, pitch: 5.08 mm, connection method: Front screw connection, screw head form: L Slotted, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: Screw locking, mounting: Screw flange, type of packaging: packed in cardboard

# Feed-through header - DFK-MSTBVA 2,5/ 2-GF-5,08



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<https://www.phoenixcontact.com/us/products/1899281>

## PCB connector

PCB connector - MSTB 2,5/ 2-STF-5,08 - 1777989

<https://www.phoenixcontact.com/us/products/1777989>



PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Female connector, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: MSTB 2,5/...-STF, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, locking clip: - without locking clip, plug-in system: COMBICON MSTB 2,5, locking: Screw locking, mounting: Screw flange, type of packaging: packed in cardboard

## PCB connector

PCB connector - MSTBT 2,5/ 2-STF-5,08 - 1805301

<https://www.phoenixcontact.com/us/products/1805301>



PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Female connector, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: MSTBT 2,5/...-STF, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, locking clip: - without locking clip, plug-in system: COMBICON MSTB 2,5, locking: Screw locking, mounting: Screw flange, type of packaging: packed in cardboard

# Feed-through header - DFK-MSTBVA 2,5/ 2-GF-5,08



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<https://www.phoenixcontact.com/us/products/1899281>

## PCB connector

PCB connector - MSTBC 2,5/ 2-STZF-5,08 - 1809734

<https://www.phoenixcontact.com/us/products/1809734>

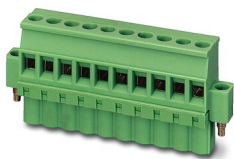


PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, type of contact: Female connector, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: MSTBC 2,5/...-STZF, pitch: 5.08 mm, connection method: Crimp connection, conductor/PCB connection direction: 0 °, locking clip: - without locking clip, plug-in system: COMBICON MSTB 2,5, locking: Screw locking, mounting: Screw flange, type of packaging: packed in cardboard, Corresponding female crimp contacts with current [A] and conductor cross section range [mm<sup>2</sup>] data: 10A/MSTBC-MT 0,5-1,0 (3190564); 10A/MSTBC-MT 0,5-1,0 BA (3190645); 12A/MSTBC-MT 1,5-2,5 (3190551); 12A/MSTBC-MT 1,5-2,5 BA (3190658). BA = Bandkontakte

## PCB connector

PCB connector - MVSTBW 2,5/ 2-STF-5,08 - 1834903

<https://www.phoenixcontact.com/us/products/1834903>



PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Female connector, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: MVSTBW 2,5/...-STF, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: -90 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: Screw locking, mounting: Screw flange, type of packaging: packed in cardboard

# Feed-through header - DFK-MSTBVA 2,5/ 2-GF-5,08



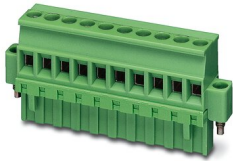
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<https://www.phoenixcontact.com/us/products/1899281>

## PCB connector

PCB connector - MVSTBR 2,5/ 2-STF-5,08 - 1835096

<https://www.phoenixcontact.com/us/products/1835096>



PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Female connector, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: MVSTBR 2,5/...-STF, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 90 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: Screw locking, mounting: Screw flange, type of packaging: packed in cardboard

## PCB connector

PCB connector - TMSTBP 2,5/ 2-STF-5,08 - 1853104

<https://www.phoenixcontact.com/us/products/1853104>



PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Female connector, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 4, product range: TMSTBP 2,5/...-STF, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, locking clip: - without locking clip, plug-in system: COMBICON MSTB 2,5, locking: Screw locking, mounting: Screw flange, type of packaging: packed in cardboard, The plug allows conductors to be looped through from module to module.

# Feed-through header - DFK-MSTBVA 2,5/ 2-GF-5,08



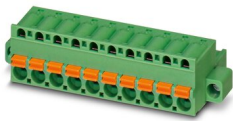
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## PCB connector

PCB connector - FKC 2,5/ 2-STF-5,08 - 1873207

<https://www.phoenixcontact.com/us/products/1873207>



PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Female connector, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: FKC 2,5/...-STF, pitch: 5.08 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: Screw locking, mounting: Screw flange, type of packaging: packed in cardboard

## PCB connector

PCB connector - FKCVW 2,5/ 2-STF-5,08 - 1873809

<https://www.phoenixcontact.com/us/products/1873809>



PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Female connector, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: FKCVW 2,5/...-STF, pitch: 5.08 mm, connection method: Push-in spring connection, conductor/PCB connection direction: -90 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: Screw locking, mounting: Screw flange, type of packaging: packed in cardboard

# Feed-through header - DFK-MSTBVA 2,5/ 2-GF-5,08



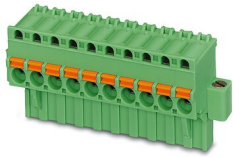
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## PCB connector

PCB connector - FKCVR 2,5/ 2-STF-5,08 - 1874109

<https://www.phoenixcontact.com/us/products/1874109>

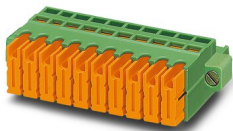


PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Female connector, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: FKCVR 2,5/...-STF, pitch: 5.08 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 90 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: Screw locking, mounting: Screw flange, type of packaging: packed in cardboard

## PCB connector

PCB connector - QC 1/ 2-STF-5,08 - 1883352

<https://www.phoenixcontact.com/us/products/1883352>



PCB connector, nominal cross section: 1 mm<sup>2</sup>, color: green, nominal current: 10 A, rated voltage (III/2): 630 V, contact surface: Tin, type of contact: Female connector, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: QC 1/...-STF, pitch: 5.08 mm, connection method: Displacement connection, conductor/PCB connection direction: 0 °, locking clip: - without locking clip, plug-in system: COMBICON MSTB 2,5, locking: Screw locking, mounting: Screw flange, type of packaging: packed in cardboard



# Feed-through header - DFK-MSTBVA 2,5/ 2-GF-5,08



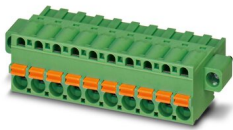
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## PCB connector

PCB connector - FKCT 2,5/ 2-STF-5,08 - 1902301

<https://www.phoenixcontact.com/us/products/1902301>

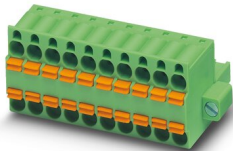


PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Female connector, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: FKCT 2,5/-STF, pitch: 5.08 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - without locking clip, plug-in system: COMBICON MSTB 2,5, locking: Screw locking, mounting: Screw flange, type of packaging: packed in cardboard

## PCB connector

PCB connector - TFKC 2,5/ 2-STF-5,08 - 1962697

<https://www.phoenixcontact.com/us/products/1962697>



PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Female connector, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 4, product range: TFKC 2,5/-STF, pitch: 5.08 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: Screw locking, mounting: Screw flange, type of packaging: packed in cardboard

# Feed-through header - DFK-MSTBVA 2,5/ 2-GF-5,08



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## PCB connector

PCB connector - SMSTB 2,5/ 2-STF-5,08 - 1971060

<https://www.phoenixcontact.com/us/products/1971060>



PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Female connector, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: SMSTB 2,5/...-STF, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: -45 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: Screw locking, mounting: Screw flange, type of packaging: packed in cardboard

## PCB connector

PCB connector - FKCS 2,5/ 2-STF-5,08 - 1975260

<https://www.phoenixcontact.com/us/products/1975260>



PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Female connector, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: FKCS 2,5/...-STF, pitch: 5.08 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: Screw locking, mounting: Screw flange, type of packaging: packed in cardboard

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