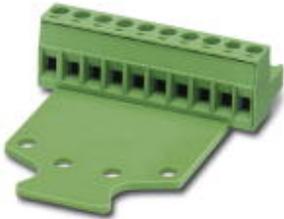


# Printed-circuit board connector - MSTB 2,5/ 5-STZ-5,08 - 1776142

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Plug component, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, Color: green, contact surface: Tin

The figure shows a 10-position version of the product

## Why buy this product

- ✓ Plug-in direction parallel to the conductor axis
- ✓ Standard plug-in system for 320 V (III/2)
- ✓ Individual position coding by inserting coding profiles
- ✓ Well-known connection principle allows worldwide use
- ✓ Pull-out aid facilitates handling and allows the tensile force to be reduced at the contact point
- ✓ Allows connection of two conductors



## Key Commercial Data

Packing unit	50 STK
GTIN	 4 017918 038526
GTIN	4017918038526
Weight per Piece (excluding packing)	9.790 g
Custom tariff number	85366990
Country of origin	Germany

## Technical data

### Dimensions

Length [ l ]	54.3 mm
Width [ w ]	25.4 mm
Height [ h ]	15 mm
Pitch	5.08 mm
Dimension a	20.32 mm

### General

# Printed-circuit board connector - MSTB 2,5/ 5-STZ-5,08 - 1776142

## Technical data

### General

Range of articles	MSTB 2,5/...-STZ
Type of contact	Female connector
Number of positions	5
Connection method	Screw connection with tension sleeve
Insulating material group	I
Rated surge voltage (III/3)	4 kV
Rated surge voltage (III/2)	4 kV
Rated surge voltage (II/2)	4 kV
Rated voltage (III/3)	250 V
Rated voltage (III/2)	320 V
Rated voltage (II/2)	630 V
Connection in acc. with standard	EN-VDE
Nominal current $I_N$	12 A
Nominal cross section	2.5 mm <sup>2</sup>
Maximum load current	12 A (with a 2.5 mm <sup>2</sup> conductor cross section)
Insulating material	PA
Flammability rating according to UL 94	V0
Internal cylindrical gage	A3
Stripping length	7 mm
Screw thread	M3
Tightening torque, min	0.5 Nm
Tightening torque max	0.6 Nm

### Connection data

Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.25 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve max.	2.5 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.25 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve max.	2.5 mm <sup>2</sup>
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
2 conductors with same cross section, solid min.	0.2 mm <sup>2</sup>
2 conductors with same cross section, solid max.	1 mm <sup>2</sup>
2 conductors with same cross section, stranded min.	0.2 mm <sup>2</sup>
2 conductors with same cross section, stranded max.	1.5 mm <sup>2</sup>
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	0.25 mm <sup>2</sup>
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	1 mm <sup>2</sup>

# Printed-circuit board connector - MSTB 2,5/ 5-STZ-5,08 - 1776142

## Technical data

### Connection data

2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.5 mm <sup>2</sup>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	1.5 mm <sup>2</sup>
Minimum AWG according to UL/CUL	30
Maximum AWG according to UL/CUL	12

### Standards and Regulations

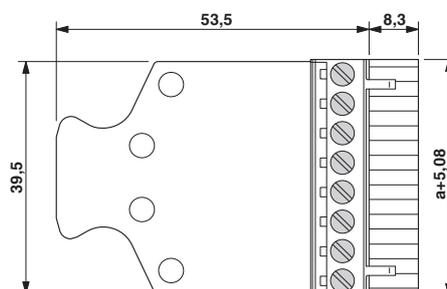
Connection in acc. with standard	EN-VDE
	CSA
Flammability rating according to UL 94	V0

### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings

Dimensional drawing



## 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	27440309
eCl@ss 9.0	27440309

### ETIM

ETIM 3.0	EC001121
ETIM 4.0	EC002638

# Printed-circuit board connector - MSTB 2,5/ 5-STZ-5,08 - 1776142

## Classifications

### ETIM

ETIM 5.0	EC002638
ETIM 6.0	EC002638

### UNSPSC

UNSPSC 6.01	30211810
UNSPSC 7.0901	39121409
UNSPSC 11	39121409
UNSPSC 12.01	39121409
UNSPSC 13.2	39121409

## Approvals

### Approvals

#### Approvals

CSA / UL Recognized / VDE Gutachten mit Fertigungsüberwachung / cUL Recognized / IECCEB Scheme / EAC / cULus Recognized

#### Ex Approvals

### Approval details

CSA		13631
	B	D
mm <sup>2</sup> /AWG/kcmil	28-12	28-12
Nominal current I <sub>N</sub>	15 A	10 A
Nominal voltage U <sub>N</sub>	300 V	300 V

UL 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>	FILE E 60425
	B	D	
mm <sup>2</sup> /AWG/kcmil	30-12	30-12	
Nominal current I <sub>N</sub>	12 A	10 A	
Nominal voltage U <sub>N</sub>	250 V	300 V	

# Printed-circuit board connector - MSTB 2,5/ 5-STZ-5,08 - 1776142

## Approvals

VDE Gutachten mit Fertigungsüberwachung		<a href="http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx">http://www.vde.com/en/Institute/OnlineService/ VDE-approved-products/Pages/Online-Search.aspx</a>	40004701
mm <sup>2</sup> /AWG/kcmil	0.2-2.5		
Nominal current IN	12 A		
Nominal voltage UN	250 V		

cUL 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>	FILE E 60425
	B	D	
mm <sup>2</sup> /AWG/kcmil	30-12	30-12	
Nominal current IN	12 A	10 A	
Nominal voltage UN	250 V	300 V	

IECEE CB Scheme		<a href="http://www.iecee.org/">http://www.iecee.org/</a>	DE1-58978-B1B2
mm <sup>2</sup> /AWG/kcmil	0.2-2.5		
Nominal current IN	12 A		
Nominal voltage UN	250 V		

EAC		B.01742
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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>
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## Accessories

Accessories

Bridge

Insertion bridge - EBP 2- 5 - 1733169

Insertion bridge, fully insulated, for connectors with 5.0 or 5.08 mm pitch, no. of positions: 2



# Printed-circuit board connector - MSTB 2,5/ 5-STZ-5,08 - 1776142

## Accessories

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### Coding element

Coding profile - CP-MSTB - 1734634



Coding profile, is inserted into the slot on the plug or inverted header, red insulating material

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### Labeled terminal marker

Marker card - SK 5,08/3,8:FORTL.ZAHLEN - 0804293



Marker card, Card, white, labeled, Horizontal: Consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - (99)100, Mounting type: adhesive, for terminal block width: 5.08 mm, Lettering field: 5.08 x 3.8 mm

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### Screwdriver tools

Screwdriver - SZS 0,6X3,5 - 1205053



Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

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### Additional products

Base strip - MSTBW 2,5/ 5-G-5,08 - 1735853



Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering

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Base strip - MSTBVA 2,5/ 5-G-5,08 - 1755765



Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering

## Printed-circuit board connector - MSTB 2,5/ 5-STZ-5,08 - 1776142

### Accessories

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#### Base strip - MSTBA 2,5/ 5-G-5,08 - 1757271

Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering



#### Base strip - MSTBV 2,5/ 5-G-5,08 - 1758047

Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering



#### Base strip - MSTB 2,5/ 5-G-5,08 - 1759046

Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering



#### Housing - MDSTBV 2,5/ 5-G-5,08 - 1762004

Header, nominal current: 10 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering, Can be aligned! Mounting flange: Order No. 1836477, 1836480. In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!



#### Base strip - SMSTBA 2,5/ 5-G-5,08 - 1767407

Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering



## Printed-circuit board connector - MSTB 2,5/ 5-STZ-5,08 - 1776142

### Accessories

#### Base strip - SMSTB 2,5/ 5-G-5,08 - 1769492

Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering



#### Base strip - MSTBA 2,5/ 5-G-5,08-LA - 1770973

Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering



#### Base strip - MDSTBW 2,5/ 5-G-5,08 - 1840010

Header, nominal current: 10 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering, The article can be aligned to create different nos. of positions! In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!



#### Base strip - MDSTBA 2,5/ 5-G-5,08 - 1842092

Header, nominal current: 10 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering, The article can be aligned to create different nos. of positions! In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!



#### Housing - MDSTB 2,5/ 5-G-5,08 - 1842542

Header, nominal current: 10 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering, Can be aligned! Mounting flange: Order No. 1736771, 1736768. In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!



## Printed-circuit board connector - MSTB 2,5/ 5-STZ-5,08 - 1776142

### Accessories

#### Base strip - MDSTBVA 2,5/ 5-G-5,08 - 1845361



Header, nominal current: 10 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering, The article can be aligned to create different nos. of positions! In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!

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#### Base strip - MSTBO 2,5/ 5-GR-5,08 - 1847136



Header, nominal current: 8 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering

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#### Base strip - MSTBO 2,5/ 5-GL-5,08 - 1850466



Header, nominal current: 8 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering

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#### Base strip - EMSTBVA 2,5/ 5-G-5,08 - 1859548



Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Press-in technology

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#### Base strip - EMSTBA 2,5/ 5-G-5,08 - 1880339



Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Press-in technology

## Printed-circuit board connector - MSTB 2,5/ 5-STZ-5,08 - 1776142

### Accessories

Base strip - DFK-MSTBA 2,5/ 5-G-5,08 - 1898868



Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering

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Base strip - DFK-MSTBVA 2,5/ 5-G-5,08 - 1899168



Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering

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Printed-circuit board connector - MSTBA 2,5/ 5-G-5,08 THT - 1902770



Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: black, contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

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Base strip - MSTBVA 2,5/ 5-G-5,08 THT - 1902848



Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: black, contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

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Printed-circuit board connector - MSTBA 2,5/ 5-G-5,08 THT-R56 - 1937266



Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: black, contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

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## Printed-circuit board connector - MSTB 2,5/ 5-STZ-5,08 - 1776142

### Accessories

#### Base strip - MSTBVA 2,5/ 5-G-5,08 THT-R56 - 1940444



Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: black, contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

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#### Printed-circuit board connector - CC 2,5/ 5-G-5,08 P26THR - 1954414



Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: black, contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

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#### Printed-circuit board connector - CC 2,5/ 5-G-5,08 P26THRR56 - 1954618



Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: black, contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

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#### Printed-circuit board connector - CCA 2,5/ 5-G-5,08 P26THR - 1954948



Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: black, contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

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#### Printed-circuit board connector - CCA 2,5/ 5-G-5,08 P26THRR56 - 1955060



Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: black, contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

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## Printed-circuit board connector - MSTB 2,5/ 5-STZ-5,08 - 1776142

### Accessories

#### Printed-circuit board connector - CCV 2,5/ 5-G-5,08 P26THR - 1955413

Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: black, contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"



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#### Printed-circuit board connector - CCV 2,5/ 5-G-5,08 P26THRR56 - 1955552

Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: black, contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"



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#### Printed-circuit board connector - CCVA 2,5/ 5-G-5,08 P26THR - 1955882

Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: black, contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"



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#### Printed-circuit board connector - CCVA 2,5/ 5-G-5,08 P26THRR56 - 1955992

Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: black, contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

