

## Printed-circuit board connector - MSTB 2,5/ 9-ST-5,08 - 1757080

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)

Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, 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

- Well-known connection principle allows worldwide use
- Low temperature rise, thanks to maximum contact force
- Allows connection of two conductors



### Key Commercial Data

Packing unit	50 STK
GTIN	 4 017918 029616
GTIN	4017918029616
Weight per Piece (excluding packing)	14.890 g
Custom tariff number	85366990
Country of origin	Germany

### Technical data

#### Dimensions

Length	18.3 mm
Height	15 mm
Width	45.72 mm
Pitch	5.08 mm
Dimension a	40.64 mm

#### General

Range of articles	MSTB 2,5/..-ST
Type of contact	Female connector

# Printed-circuit board connector - MSTB 2,5/ 9-ST-5,08 - 1757080

## Technical data

### General

Number of positions	9
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 <sub>N</sub>	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>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.5 mm <sup>2</sup>

# Printed-circuit board connector - MSTB 2,5/ 9-ST-5,08 - 1757080

## Technical data

### Connection data

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

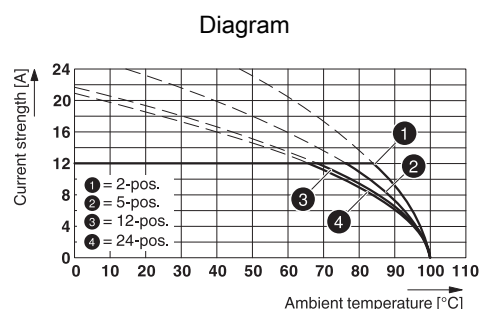
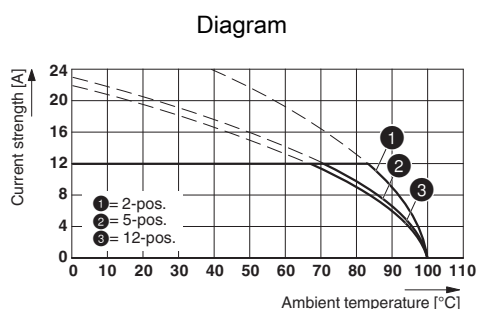
### Standards and Regulations

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



Type: MSTB 2,5/...-ST-5,08 with CC 2,5/...-G-5,08 P26THR

Type: MSTB 2,5/...-ST-5,08 with CCVA 2,5/...-G-5,08 P26THR

## 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
ETIM 5.0	EC002638

# Printed-circuit board connector - MSTB 2,5/ 9-ST-5,08 - 1757080

## Classifications

### ETIM

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

#### Ex Approvals

### Approval details

CSA		<a href="http://www.csagroup.org/services/testing-and-certification/certified-product-listing/">http://www.csagroup.org/services/testing-and-certification/certified-product-listing/</a>	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	

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 I <sub>N</sub>	12 A		
Nominal voltage U <sub>N</sub>	250 V		

# Printed-circuit board connector - MSTB 2,5/ 9-ST-5,08 - 1757080

## Approvals

IECEE CB Scheme	<b>CB</b> scheme	<a href="http://www.iecee.org/">http://www.iecee.org/</a>	DE1-56062-B1B2
mm <sup>2</sup> /AWG/kcmil	0.2-2.5		
Nominal current I <sub>N</sub>	12 A		
Nominal voltage U <sub>N</sub>	250 V		

cULus Recognized	<b>cULus</b>	<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>	E60425-19931011
	B	D	
mm <sup>2</sup> /AWG/kcmil	30-12	30-12	
Nominal current I <sub>N</sub>	15 A	15 A	
Nominal voltage U <sub>N</sub>	300 V	150 V	

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

## 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



Insertion bridge - EBP 3- 5 - 1733172

Insertion bridge, fully insulated, for connectors with 5.0 or 5.08 mm pitch, no. of positions: 3



## Printed-circuit board connector - MSTB 2,5/ 9-ST-5,08 - 1757080

### Accessories

Insertion bridge - EBP 4- 5 - 1733185



Insertion bridge, fully insulated, for connectors with 5.0 or 5.08 mm pitch, no. of positions: 4

---

Insertion bridge - EBP 5- 5 - 1733198



Insertion bridge, fully insulated, for connectors with 5.0 or 5.08 mm pitch, no. of positions: 5

---

Insertion bridge - EBP 6- 5 - 1733208



Insertion bridge, fully insulated, for connectors with 5.0 or 5.08 mm pitch, no. of positions: 6

---

### Cable housing

Cable housing - KGS-MSTB 2,5/ 9 - 1783782



Cable housing, Pitch: 0 mm, Number of positions: 9, Dimension a: 45 mm, Color: green

---

### Coding element

Coding profile - CP-MSTB - 1734634



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

---

### Labeled terminal marker

## Printed-circuit board connector - MSTB 2,5/ 9-ST-5,08 - 1757080

### Accessories

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

---

### Marker pen

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

---

### 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

---

### Terminal marking

Marker card - SK U/2,8 WH:UNBEDRUCKT - 0803883



Marker card, Sheet, white, unlabeled, can be labeled with: Plotter, Office printing systems, Mounting type: Adhesive, Lettering field: 186 x 2.8 mm

---

### Additional products

Base strip - MSTBW 2,5/ 9-G-5,08 - 1735811



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

## Printed-circuit board connector - MSTB 2,5/ 9-ST-5,08 - 1757080

### Accessories

#### Base strip - MSTBVA 2,5/ 9-G-5,08 - 1755804



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

#### Base strip - MSTBA 2,5/ 9-G-5,08 - 1757310



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

#### Base strip - MSTBV 2,5/ 9-G-5,08 - 1758089



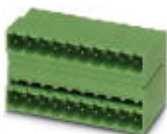
Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

#### Base strip - MSTB 2,5/ 9-G-5,08 - 1759088



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

#### Base strip - MDSTB 2,5/ 9-G1-5,08 - 1762444



Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 9, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering, 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/ 9-ST-5,08 - 1757080

### Accessories

#### Base strip - MDSTBV 2,5/ 9-G1-5,08 - 1762570



Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 9, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering, 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/ 9-G-5,08 - 1767449



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

---

#### Base strip - MSTBA 2,5/ 9-G-5,08-LA - 1768011



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

---

#### Base strip - SMSTB 2,5/ 9-G-5,08 - 1769531



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

---

#### Base strip - MSTBV 2,5/ 9-GEH-5,08 - 1808531



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

## Printed-circuit board connector - MSTB 2,5/ 9-ST-5,08 - 1757080

### Accessories

#### Base strip - MDSTBA 2,5/ 9-G-5,08 - 1842131



Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 9, 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 - MDSTBW 2,5/ 9-G-5,08 - 1842283



Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 9, 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 - MDSTB 2,5/ 9-G-5,08 - 1842584



Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 9, 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!

#### Base strip - MDSTBVA 2,5/ 9-G-5,08 - 1845400



Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 9, 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 - MDSTBV 2,5/ 9-G-5,08 - 1845552



Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 9, 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!

## Printed-circuit board connector - MSTB 2,5/ 9-ST-5,08 - 1757080

### Accessories

#### Base strip - EMSTBVA 2,5/ 9-G-5,08 - 1859580



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Press-in technology

#### Base strip - EMSTBA 2,5/ 9-G-5,08 - 1880371



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Press-in technology

#### Base strip - DFK-MSTBA 2,5/ 9-G-5,08 - 1898907



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

#### Base strip - DFK-MSTBVA 2,5/ 9-G-5,08 - 1899207



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

#### Printed-circuit board connector - CC 2,5/ 9-G-5,08 P26THR - 1954540



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, 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"

## Printed-circuit board connector - MSTB 2,5/ 9-ST-5,08 - 1757080

### Accessories

#### Printed-circuit board connector - CC 2,5/ 9-G-5,08 P26THRR88 - 1954650

Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, 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"



#### Printed-circuit board connector - CCA 2,5/ 9-G-5,08 P26THR - 1954993

Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, 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"



#### Printed-circuit board connector - CCA 2,5/ 9-G-5,08 P26THRR88 - 1955109

Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, 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"



#### Printed-circuit board connector - CCV 2,5/ 9-G-5,08 P26THR - 1955484

Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, 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"



#### Printed-circuit board connector - CCV 2,5/ 9-G-5,08 P26THRR88 - 1955594

Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, 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"



## Printed-circuit board connector - MSTB 2,5/ 9-ST-5,08 - 1757080

### Accessories

#### Printed-circuit board connector - CCVA 2,5/ 9-G-5,08 P26THR - 1955921



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, 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"

#### Printed-circuit board connector - CCVA 2,5/ 9-G-5,08 P26THRR88 - 1956030



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, 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"

#### Printed-circuit board connector - CCA 2,5/ 9-GL-5,08P26THR - 1959134



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, Pitch: 5.08 mm, Color: black, Contact surface: Tin, Mounting: THR soldering, Two-in-one – Pin strips must always be made up of a left (L) and a right (R) segment. Please allow for the corresponding counterpart from the accessories to complete the THR pin strip.

#### Printed-circuit board connector - CCA 2,5/ 9-GL-5,08P26THRR88 - 1959202



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, Pitch: 5.08 mm, Color: black, Contact surface: Tin, Mounting: THR soldering, Two-in-one – Pin strips must always be made up of a left (L) and a right (R) segment. Please allow for the corresponding counterpart from the accessories to complete the THR pin strip.

#### Printed-circuit board connector - CCA 2,5/ 9-GR-5,08P26THR - 1959273



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, Pitch: 5.08 mm, Color: black, Contact surface: Tin, Mounting: THR soldering, Two-in-one – Pin strips must always be made up of a left (L) and a right (R) segment. Please allow for the corresponding counterpart from the accessories to complete the THR pin strip.

## Printed-circuit board connector - MSTB 2,5/ 9-ST-5,08 - 1757080

### Accessories

Printed-circuit board connector - CCA 2,5/ 9-GR-5,08P26THRR88 - 1959341



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, Pitch: 5.08 mm, Color: black, Contact surface: Tin, Mounting: THR soldering, Two-in-one – Pin strips must always be made up of a left (L) and a right (R) segment. Please allow for the corresponding counterpart from the accessories to complete the THR pin strip.

---

Printed-circuit board connector - CCVA 2,5/ 9-GL-5,08P26THR - 1959972



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, Pitch: 5.08 mm, Color: black, Contact surface: Tin, Mounting: THR soldering, Two-in-one – Pin strips must always be made up of a left (L) and a right (R) segment. Please allow for the corresponding counterpart from the accessories to complete the THR pin strip.

---

Printed-circuit board connector - CCVA 2,5/ 9-GR-5,08P26THR - 1960152



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 9, Pitch: 5.08 mm, Color: black, Contact surface: Tin, Mounting: THR soldering, Two-in-one – Pin strips must always be made up of a left (L) and a right (R) segment. Please allow for the corresponding counterpart from the accessories to complete the THR pin strip.

---

---