

## Printed-circuit board connector - MSTBT 2,5/ 2-ST - 1779835

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Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 2, Pitch: 5 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	100 STK
GTIN	 4 017918 040529
GTIN	4017918040529
Weight per Piece (excluding packing)	3.320 g
Custom tariff number	85366990
Country of origin	Germany

### Technical data

#### Dimensions

Length	18.1 mm
Height	15 mm
Width	10 mm
Pitch	5 mm
Dimension a	5 mm

#### General

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

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## Technical data

### General

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

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## 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

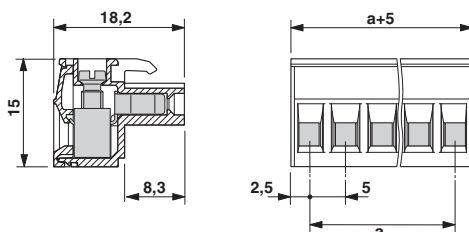
Connection in acc. with standard	EN-VDE
	CSA
Flammability rating according to UL 94	V0

### Environmental Product Compliance

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

## Drawings

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
ETIM 5.0	EC002638
ETIM 6.0	EC002638

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## Classifications

### 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>		10 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	

IECEE CB 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	

# Printed-circuit board connector - MSTBT 2,5/ 2-ST - 1779835

## 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> E60425-19931011
	B	D
mm <sup>2</sup> /AWG/kcmil	30-12	30-12
Nominal current I <sub>N</sub>	15 A	10 A
Nominal voltage U <sub>N</sub>	300 V	300 V

EAC		B.01742
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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

### Cable housing

Cable housing - KGG-MSTB 2,5/ 2 - 1803934



Cable housing, Pitch: 0 mm, Number of positions: 2, Dimension a: 10 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 - MSTBT 2,5/ 2-ST - 1779835

### Accessories

Marker card - SK 5/3,8:FORTL.ZAHLEN - 0804183



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 mm, Lettering field: 5 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/ 2-G - 1736111



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 2, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

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Base strip - MSTBV 2,5/ 2-G - 1753437



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 2, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

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Base strip - MSTB 2,5/ 2-G - 1754436



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 2, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

## Printed-circuit board connector - MSTBT 2,5/ 2-ST - 1779835

### Accessories

#### Base strip - MSTBVA 2,5/ 2-G - 1755516

Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 2, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering



#### Base strip - MSTBA 2,5/ 2-G - 1757475

Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 2, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering



#### Base strip - MDSTBV 2,5/ 2-G - 1763032

Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 2, Pitch: 5 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 - MSTB 2,5/ 2-G-LA - 1768189

Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 2, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering



#### Base strip - SMSTB 2,5/ 2-G - 1769230

Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 2, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering



## Printed-circuit board connector - MSTBT 2,5/ 2-ST - 1779835

### Accessories

#### Base strip - SMSTBA 2,5/ 2-G - 1769803

Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 2, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering



#### Base strip - MSTBA 2,5/ 2-G-LA - 1770481

Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 2, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering



#### Base strip - MDSTBW 2,5/ 2-G - 1802443

Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 2, Pitch: 5 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 - MDSTBVA 2,5/ 2-G - 1845785

Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 2, Pitch: 5 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/ 2-G - 1846519

Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 2, Pitch: 5 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!





## Printed-circuit board connector - MSTBT 2,5/ 2-ST - 1779835

### Accessories

Base strip - MSTBO 2,5/ 2-G1R - 1861044



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 2, Pitch: 5 mm, Mounting: Soldering, Article with lateral pin exit

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Base strip - MSTBO 2,5/ 2-G1L - 1861057



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 2, Pitch: 5 mm, Mounting: Soldering, Article with lateral pin exit

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Base strip - MDSTBA 2,5/ 2-GL - 1877708



Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 2, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: 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 - MDSTBA 2,5/ 2-GR - 1877711



Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 2, Pitch: 5 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 - MDSTBVA 2,5/ 2-GL - 1877724



Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 2, Pitch: 5 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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## Printed-circuit board connector - MSTBT 2,5/ 2-ST - 1779835

### Accessories

#### Base strip - MDSTBVA 2,5/ 2-GR - 1877737



Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 2, Pitch: 5 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 - EMSTBA 2,5/ 2-G - 1899841



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 2, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Press-in technology

#### Base strip - EMSTBVA 2,5/ 2-G - 1914852



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 2, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Press-in technology

#### Base strip - MSTBA 2,5/ 2-G THT - 1927496



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 2, Pitch: 5 mm, Color: black, Contact surface: Tin, Mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

#### Base strip - MSTBVA 2,5/ 2-G THT - 1941003



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 2, Pitch: 5 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 - MSTBT 2,5/ 2-ST - 1779835

### Accessories

#### Base strip - MSTBV 2,5/ 2-G THT - 1963942



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 2, Pitch: 5 mm, Color: black, Contact surface: Tin, Mounting: Soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

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#### Base strip - MSTBO 2,5/ 2-G1L THRR32 BK - 2200251



Header, Nominal current: 16 A, Rated voltage (III/2): 320 V, Number of positions: 2, Pitch: 5 mm, Color: black, Mounting: Taped SMD/THT/THR components

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#### Base strip - MSTBO 2,5/ 2-G1R THRR32 BK - 2200252



Header, Nominal current: 16 A, Rated voltage (III/2): 320 V, Number of positions: 2, Pitch: 5 mm, Color: black, Mounting: Taped SMD/THT/THR components

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#### Base strip - MSTBO 2,5/ 2-G1L KMGY - 2854788



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 2, Pitch: 5 mm, Color: light gray, Mounting: Soldering

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#### Base strip - MSTBO 2,5/ 2-G1R KMGY - 2854791



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 2, Pitch: 5 mm, Color: light gray, Mounting: Soldering

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