

## Sample set - SAMPLE PTSM 05/ 5-25-V-SMD - 1701087

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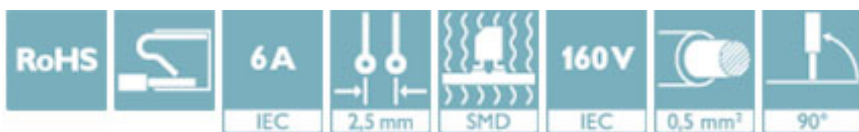


PCB terminal block, nominal current: 6 A, nom. voltage: 160 V, pitch: 2.5 mm, number of positions: 5, connection method: Push-in spring connection, mounting: SMD soldering, conductor/PCB connection direction: 90 °, color: black

The figure shows a 3-position version

### Your advantages

- ✓ Time saving push-in connection, tools not required
- ✓ Defined contact force ensures that contact remains stable over the long term
- ✓ High current carrying capacity of 6 A in very compact dimensions
- ✓ Designed for integration into the SMT soldering process
- ✓ Vertical connection enables multi-row arrangement on the PCB
- ✓ Additional solder anchors reduce the mechanical strain on the soldering spots



### Key Commercial Data

Packing unit	1 pc
Minimum order quantity	5 pc
Custom tariff number	85369010
Country of origin	India

### Technical data

#### Item properties

Brief article description	PCB terminal block
Range of articles	PTSM 0,5/..-V-SMD
Pitch	2.5 mm
Number of positions	5
Connection method	Push-in spring connection
Mounting type	SMD soldering
Pin layout	Linear pad geometry
Number of levels	1

#### Electrical parameters

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### Technical data

#### Electrical parameters

Rated current	6 A
Rated insulation voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV

#### Connection capacity

Conductor cross section solid	0.14 mm <sup>2</sup> ... 0.5 mm <sup>2</sup>
Conductor cross section flexible	0.2 mm <sup>2</sup> ... 0.5 mm <sup>2</sup>
Conductor cross section AWG / kcmil	26 ... 20
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm <sup>2</sup> ... 0.5 mm <sup>2</sup>
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm <sup>2</sup> ... 0.34 mm <sup>2</sup>
Stripping length	6 mm

#### 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	hot-dip tin-plated
Metal surface terminal point (top layer)	Tin (4 - 8 µm Sn)
Metal surface soldering area (top layer)	Tin (4 - 8 µm Sn)

#### Material data - housing

Insulating material	LCP
Insulating material group	IIIa
CTI according to IEC 60112	175
Flammability rating according to UL 94	V0

#### Dimensions for the product

Length [ l ]	7 mm
Width [ w ]	17.6 mm
Height [ h ]	9 mm
Pitch	2.5 mm
Height (without solder pin)	9 mm
Solder pin [P]	2 mm
Pin spacing	2.5 mm
Dimension a	10 mm

#### Dimensions for PCB design

Pin spacing	2.5 mm
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#### Packaging information

Type of packaging	packed in cardboard
Pieces per package	5
Denomination packing units	Pcs.

#### Ambient conditions

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### Technical data

#### Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 70 °C
Ambient temperature (assembly)	-5 °C ... 100 °C
Ambient temperature (operation)	-40 °C

#### Termination and connection method

Connection test	IEC 60998-2-2:2002-12
Test result	Test passed

#### Pull-out test

Pull-out test	IEC 60998-2-2:2002-12
	Test passed
Conductor cross section / conductor type / tensile force	0.14 mm <sup>2</sup> / solid / > 7 N
	0.14 mm <sup>2</sup> / flexible / > 7 N
	0.2 mm <sup>2</sup> / solid / > 10 N
	0.5 mm <sup>2</sup> / solid / > 30 N
	0.75 mm <sup>2</sup> / flexible / > 35 N

#### Mechanical tests according to standard

Test specification	IEC 60998-2-2 (in parts)
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#### Electrical tests

Rated current	6 A
Rated insulation voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV

#### Air clearances and creepage distances

Insulating material group	IIIa
Voltage	32 V
Rated insulation voltage (III/3)	32 V
Rated insulation voltage (III/2)	160 V
Rated insulation voltage (II/2)	160 V
Rated surge voltage (III/3)	2.5 kV
Rated surge voltage (III/2)	2.5 kV
Rated surge voltage (II/2)	2.5 kV

#### Current carrying capacity / derating curves

Specification	IEC 60998-2-2 (in parts)
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#### Vibration test

Resistance to ageing, to humidity conditions, to ingress of solid objects and to harmful ingress of water	Test passed IEC 60998-1:2002-12 168 h/100°C 48 h/30 °C/92 %
Test result	Test passed
Test specification	IEC 60998-1:2002-12
Dry heat	168 h/100°C
Humid heat	48 h/30 °C/92 %

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## Technical data

### Resistance to ageing, humidity and penetration of solids

Test result	Test passed
Test specification	IEC 60998-1:2002-12
Dry heat	168 h/100°C
Humid heat	48 h/30 °C/92 %

### Standards and Regulations

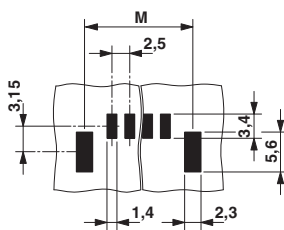
Connection in acc. with standard	EN-VDE
Flammability rating according to UL 94	V0

### Environmental Product Compliance

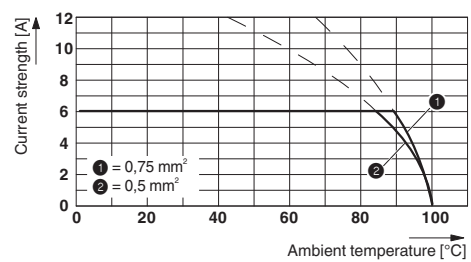
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

## Drawings

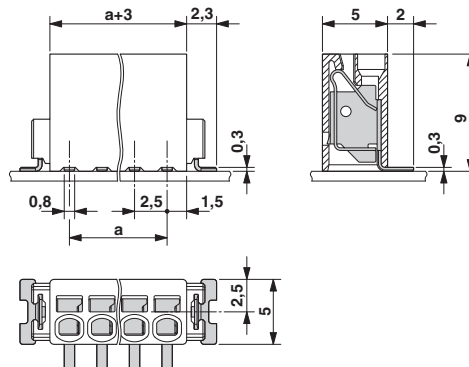
Drilling diagram



Diagram



Dimensional drawing



## Classifications

eCl@ss

eCl@ss 4.0	27141111
eCl@ss 4.1	27141109
eCl@ss 5.0	27141190
eCl@ss 5.1	27261100

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## Classifications

### eCl@ss

eCl@ss 6.0	27261100
eCl@ss 7.0	27440401
eCl@ss 8.0	27440401
eCl@ss 9.0	27440401

### ETIM

ETIM 3.0	EC001121
ETIM 4.0	EC002643
ETIM 5.0	EC002643
ETIM 6.0	EC002643

### UNSPSC

UNSPSC 6.01	30211801
UNSPSC 7.0901	39121432
UNSPSC 11	34131203
UNSPSC 12.01	39121432
UNSPSC 13.2	39121432

## Approvals

### Approvals

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Approvals

EAC

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Ex Approvals

### Approval details

EAC		B.01742
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## Accessories

Accessories

Screwdriver tools

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### Accessories

Screwdriver - SZS 0,4X2,0 - 1205202



Micro screwdriver, bladed, size: 0.4 x 2.0 x 60 mm, 2-component grip, with non-slip grip and twist cap

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### Additional products

PCB terminal block - PTSM 0,5/ 5-2,5-V SMD R44 - 1771127



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