

## Sample set - SAMPLE PTSM 05/ 6-25-H-SMD - 1701080

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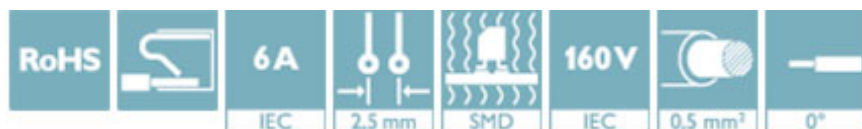


PCB terminal block, nominal current: 6 A, nom. voltage: 160 V, pitch: 2.5 mm, number of positions: 6, connection method: Push-in spring connection, mounting: SMD soldering, conductor/PCB connection direction: 0 °, color: black

The figure shows the 3-pos. 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
- ✓ 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/..-H-SMD         |
| Pitch                     | 2.5 mm                    |
| Number of positions       | 6                         |
| Connection method         | Push-in spring connection |
| Mounting type             | SMD soldering             |
| Pin layout                | Linear pad geometry       |
| Number of levels          | 1                         |

#### Electrical parameters

|                                  |       |
|----------------------------------|-------|
| Rated current                    | 6 A   |
| Rated insulation voltage (III/2) | 160 V |

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#### Electrical parameters

|                             |        |
|-----------------------------|--------|
| 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> |
| 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

|                             |                                                                                                         |
|-----------------------------|---------------------------------------------------------------------------------------------------------|
| Caption                     | Schematic representation – for additional information, see product range drawing in the Download Center |
| Length [ l ]                | 9 mm                                                                                                    |
| Width [ w ]                 | 20.1 mm                                                                                                 |
| Height [ h ]                | 7 mm                                                                                                    |
| Pitch                       | 2.5 mm                                                                                                  |
| Height (without solder pin) | 7 mm                                                                                                    |
| Solder pin [P]              | 2 mm                                                                                                    |
| Pin spacing                 | 2.5 mm                                                                                                  |
| Dimension a                 | 12.5 mm                                                                                                 |

#### Dimensions for PCB design

|             |        |
|-------------|--------|
| Pin spacing | 2.5 mm |
|-------------|--------|

#### Packaging information

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

#### Ambient conditions

|                                         |                  |
|-----------------------------------------|------------------|
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |
|-----------------------------------------|------------------|

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### Technical data

#### Ambient conditions

|                                 |                  |
|---------------------------------|------------------|
| 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) |
|--------------------|--------------------------|

#### 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) |
|---------------|--------------------------|

#### 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 %                                             |

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

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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

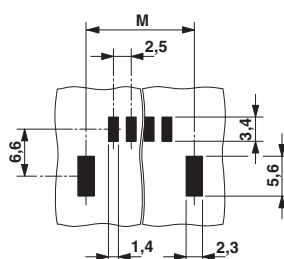
|                                        |        |
|----------------------------------------|--------|
| Connection in acc. with standard       | EN-VDE |
| Flammability rating according to UL 94 | V0     |

#### Environmental Product Compliance

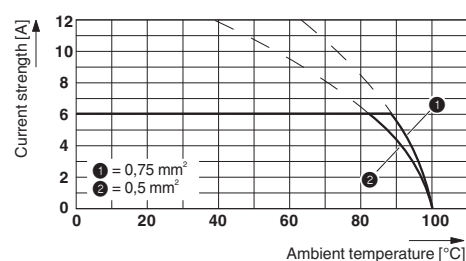
|            |                                                         |
|------------|---------------------------------------------------------|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

### Drawings

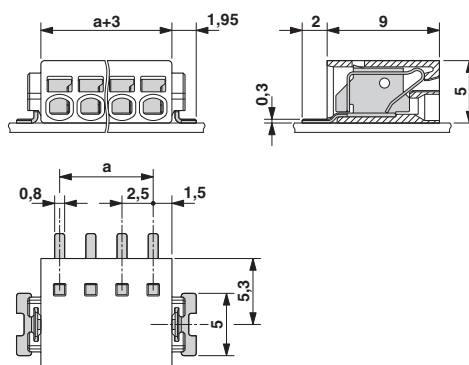
Drilling diagram



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

Approvals

EAC

Ex Approvals

#### Approval details

|     |                                                                                     |         |
|-----|-------------------------------------------------------------------------------------|---------|
| EAC |  | B.01742 |
|-----|-------------------------------------------------------------------------------------|---------|

### 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/ 6-2,5-H SMD R44 - 1771062



PCB terminal block, nominal current: 6 A, nom. voltage: 160 V, pitch: 2.5 mm, number of positions: 6, connection method: Push-in spring connection, mounting: SMD soldering, conductor/PCB connection direction: 0 °, color: black