

Sample set - SAMPLE SPT-THR 1,5/ 6-H-3,5 - 1838186

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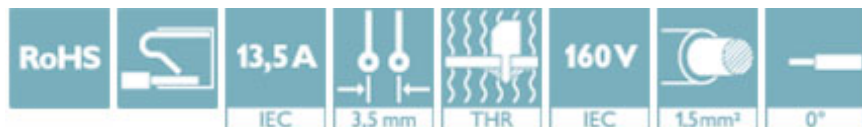
PCB terminal block, nominal current: 13.5 A, nom. voltage: 160 V, pitch: 3.5 mm, number of positions: 6, connection method: Push-in spring connection, mounting: THR soldering, conductor/PCB connection direction: 0°, color: black. SAMPLE set with 5 items in belt section. When used as part of soldering process, please use items without SAMPLE marking



The figure shows the 10-position version

Your advantages

- ✓ Time saving push-in connection, tools not required
- ✓ Defined contact force ensures that contact remains stable over the long term
- ✓ Intuitive use through colour coded actuation lever
- ✓ Designed for integration into the SMT soldering process
- ✓ Quick and convenient testing using integrated test option
- ✓ Operation and conductor connection from one direction enable integration into front of device
- ✓ Two solder pins reduce the mechanical strain on the soldering spots



Key Commercial Data

| | |
|----------------------|---------------|
| Packing unit | 1 |
| GTIN | |
| GTIN | 4055626039947 |
| Custom tariff number | 85369010 |

Technical data

Item properties

| | |
|---------------------------|---------------------------|
| Brief article description | PCB terminal block |
| Range of articles | SPT 1,5/..-H-THR |
| Pitch | 3.5 mm |
| Number of positions | 6 |
| Connection method | Push-in spring connection |
| Mounting type | THR soldering |
| Pin layout | Linear double pinning |

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Technical data

Item properties

| | |
|------------------|---|
| Number of levels | 1 |
|------------------|---|

Electrical parameters

| | |
|----------------------------------|--------|
| Rated current | 13.5 A |
| Rated insulation voltage (III/2) | 160 V |
| Rated surge voltage (III/2) | 2.5 kV |

Connection capacity

| | |
|-----------------------------------------------------------------------|----------------------------------------------|
| Conductor cross section solid | 0.2 mm ² ... 1.5 mm ² |
| Conductor cross section flexible | 0.2 mm ² ... 1.5 mm ² |
| Conductor cross section AWG / kcmil | 24 ... 16 |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.2 mm ² ... 1.5 mm ² |
| Conductor cross section, flexible, with ferrule, with plastic sleeve | 0.2 mm ² ... 0.75 mm ² |
| Stripping length | 8 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] | 13.6 mm |
| Width [w] | 21.5 mm |
| Height [h] | 9.7 mm |
| Pitch | 3.5 mm |
| Height (without solder pin) | 7.7 mm |
| Solder pin [P] | 2 mm |
| Pin spacing | 7 mm |
| Pin dimensions | 0.7 x 0.3 mm |
| Dimension a | 17.5 mm |

Dimensions for PCB design

| | |
|---------------|--------|
| Hole diameter | 1.1 mm |
| Pin spacing | 7 mm |

Packaging information

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Technical data

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 |
| 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 | 0.2 mm ² / solid / > 10 N |
| | 0.2 mm ² / flexible / > 10 N |
| | 1.5 mm ² / solid / > 40 N |
| | 1.5 mm ² / flexible / > 40 N |

Mechanical tests according to standard

| | |
|--------------------|--------------------------|
| Test specification | IEC 60998-2-2 (in parts) |
|--------------------|--------------------------|

Electrical tests

| | |
|----------------------------------|--------|
| Rated current | 13.5 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 | 160 V |
| Rated insulation voltage (III/3) | 160 V |
| Rated insulation voltage (III/2) | 160 V |
| Rated insulation voltage (II/2) | 320 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 |

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Technical data

Vibration test

| | |
|--------------------|---------------------|
| 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

| | |
|--------------------|---------------------|
| 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

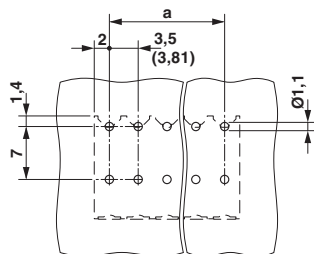
| | |
|----------------------------------------|--------|
| Connection in acc. with standard | EN-VDE |
| Flammability rating according to UL 94 | V0 |

Environmental Product Compliance

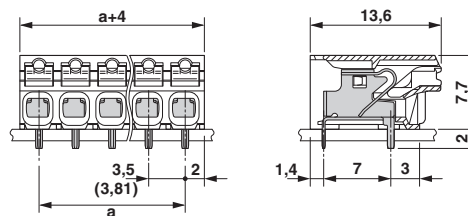
| | |
|------------|---------------------------------------------------------|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

Drawings

Drilling diagram



Dimensional drawing



Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 5.1 | 27261100 |
| eCl@ss 6.0 | 27261100 |
| eCl@ss 7.0 | 27440401 |
| eCl@ss 8.0 | 27440401 |
| eCl@ss 9.0 | 27440401 |

ETIM

| | |
|----------|----------|
| ETIM 5.0 | EC002643 |
| ETIM 6.0 | EC002643 |

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Classifications

UNSPSC

| | |
|-------------|----------|
| UNSPSC 13.2 | 39121432 |
|-------------|----------|

Approvals

Approvals

Approvals

EAC

Ex Approvals

Approval details

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

Accessories

Accessories

Connector

Ferrule - A 0,5 - 8 - 3202481



Ferrule, length: 8 mm, color: silver

Ferrule - A 0,75- 8 - 3202504



Ferrule, length: 8 mm, color: silver

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Accessories

Ferrule - A 1 - 8 - 3202517



Ferrule, length: 8 mm, color: silver

Ferrule - AI 0,25- 8 YE - 3203037



Ferrule, sleeve length: 8 mm, length: 12.5 mm, color: yellow

Ferrule - AI 0,5 - 8 WH - 3200014



Ferrule, sleeve length: 8 mm, length: 14 mm, color: white

Ferrule - AI 0,5 - 8 WH -1000 - 3200881



Ferrule, sleeve length: 8 mm, length: 14 mm, color: white

Ferrule - AI 0,75- 8 GY - 3200519



Ferrule, sleeve length: 8 mm, length: 14 mm, color: gray

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Accessories

Ferrule - AI 0,75- 8 GY -1000 - 3200894



Ferrule, sleeve length: 8 mm, length: 14 mm, color: gray

Crimping tool

Crimping pliers - CRIMPFOX 6 - 1212034



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.25 mm² ... 6.0 mm², lateral entry, trapezoidal crimp

Screwdriver tools

Screwdriver - SZS 0,4X2,5 VDE - 1205037



Screwdriver, slot-headed, VDE insulated, size: 0.4 x 2.5 x 80 mm, 2-component grip, with non-slip grip