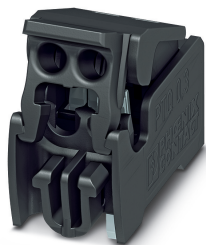


## PCB terminal block - PTQ 0,3/ 2-2,5 THR R32 - 1702610

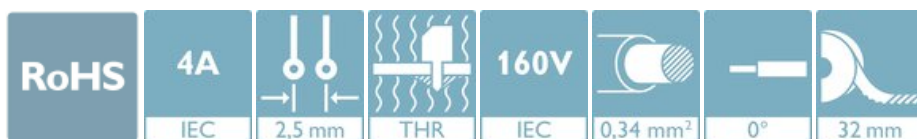
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PCB terminal block, nominal current: 4 A, rated voltage (III/2): 160 V, nominal cross section: 0.34 mm<sup>2</sup>, number of potentials: 2, Number of rows: 1, Number of positions per row: 2, product range: PTQ 0,3/..-THR, pitch: 2.5 mm, connection method: Displacement connection, mounting: THR soldering, conductor/PCB connection direction: 0 °, color: black, Pin layout: Zigzag pinning W, Solder pin [P]: 2 mm, type of packaging: 32 mm wide tape. Suitable for CAT5

### Your advantages

- ✓ Satisfies CAT5 requirements in accordance with EN 50173 and ISO/IEC 11801
- ✓ Connection without conductor pretreatment for huge time savings
- ✓ Finger-operated QUICKON insulation displacement connection enables repeated conductor connection
- ✓ Designed for integration into the SMT soldering process
- ✓ Supplied in tape-on-reel packing according to IEC 60286-3 for automated mounting
- ✓ Anti-rotation pin supports positioning on the PCB
- ✓ Satisfies CAT5 requirements in accordance with EN 50173 and ISO/IEC 11801



### Key Commercial Data

|                        |               |
|------------------------|---------------|
| Packing unit           | 250 pc        |
| Minimum order quantity | 250 pc        |
| GTIN                   |               |
| GTIN                   | 4046356599498 |

### Technical data

#### Item properties

|                           |                    |
|---------------------------|--------------------|
| Brief article description | PCB terminal block |
| Range of articles         | PTQ 0,3/..-THR     |
| Pitch                     | 2.5 mm             |
| Number of positions       | 2                  |
| Mounting type             | THR soldering      |
| Pin layout                | Zigzag pinning W   |
| Number of rows            | 1                  |
| Number of connections     | 2                  |

# PCB terminal block - PTQ 0,3/ 2-2,5 THR R32 - 1702610

## Technical data

### Item properties

|                      |   |
|----------------------|---|
| Number of potentials | 2 |
|----------------------|---|

### Electrical parameters

|                             |        |
|-----------------------------|--------|
| Nominal current             | 4 A    |
| Nom. voltage                | 160 V  |
| Rated voltage (III/3)       | 160 V  |
| Rated voltage (III/2)       | 160 V  |
| Rated voltage (II/2)        | 200 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 |

### Connection capacity

|                                     |   |
|-------------------------------------|---|
| Connection method                   | Displacement connection                       |
| pluggable                           | no  |
| Conductor cross section solid       | 0.14 mm <sup>2</sup> ... 0.34 mm <sup>2</sup> |
| Conductor cross section flexible    | 0.14 mm <sup>2</sup> ... 0.34 mm <sup>2</sup> |
| Conductor cross section AWG / kcmil | 26 ... 22                                     |

### 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 (3 - 5 µm Sn)   |
| Metal surface terminal point (middle layer) | Nickel (1.3 - 3 µm Ni)  |
| Metal surface soldering area (top layer)    | Tin (3 - 5 µm Sn)   |
| Metal surface soldering area (middle layer) | Nickel (1.3 - 3 µm Ni)  |

### Material data - housing

|  |              |
|--|--------------|
| Housing color                          | black (9005) |
| 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                     | Schematische Abbildung - weitere Details siehe Produktfamilienzeichnung im Download Center |
| Length [ l ]                | 17.55 mm   |
| Width [ w ]                 | 7 mm   |
| Height [ h ]                | 8 mm   |
| Pitch                       | 2.5 mm   |
| Height (without solder pin) | 8 mm   |

# PCB terminal block - PTQ 0,3/ 2-2,5 THR R32 - 1702610

## Technical data

### Dimensions for the product

|                |              |
|----------------|--------------|
| Solder pin [P] | 2 mm         |
| Pin spacing    | 2.5 mm       |
| Pin dimensions | 0.9 x 0.4 mm |

### Dimensions for PCB design

|               |        |
|---------------|--------|
| Hole diameter | 1.1 mm |
| Pin spacing   | 2.5 mm |

### Packaging information

|                             |  |
|-----------------------------|--|
| Type of packaging           | 32 mm wide tape                          |
| Pieces per package          | 250                                      |
| Denomination packing units  | Pcs.                                     |
| [W] tape width              | 32 mm                                    |
| [A] coil diameter           | 330 mm                                   |
| [W2] coil overall dimension | 38.4 mm                                  |
| Outer packaging type        | Transparent-Bag                          |
| ESD level                   | (D) electrostatically conductive         |
| Specification               | DIN EN 61340-5-1 (VDE 0300-5-1): 2008-07 |

### General product information

|              |   |
|--------------|---|
| Type of note | Note on application   |
| Note         | The item is qualified for CAT5 Ethernet applications. For this reason, it is suited for use in IoT devices. |

### Processing notes

|   |  |
|---|--|
| Process                                   | Reflow/wave soldering                    |
| Specification                             | Following IPC/JEDEC J-STD-020D.1:2008-03 |
|   | Following IEC 61760-1:2006-04            |
|   | Following IEC 60068-2-58:2005-02         |
| Moisture Sensitive Level                  | MSL 1                                    |
| Classification temperature T <sub>c</sub> | 260 °C                                   |
| Solder cycles in the reflow               | 3  |

### Ambient conditions

|   |   |
|---|---|
| Ambient temperature (storage/transport) | -40 °C ... 70 °C  |
| Ambient temperature (assembly)          | -5 °C ... 100 °C  |
| Ambient temperature (operation)         | -40 °C ... 100 °C (Depending on the current carrying capacity/derating curve) |

### Termination and connection method

|                 |                       |
|-----------------|-----------------------|
| Connection test | IEC 60998-2-3:2002-12 |
| Test result     | Test passed           |

### Pull-out test

|               |                     |
|---------------|---------------------|
| Pull-out test | IEC 60999-1:1999-11 |
|---------------|---------------------|

# PCB terminal block - PTQ 0,3/ 2-2,5 THR R32 - 1702610

## Technical data

### Pull-out test

|  |   |
|--|---|
| Conductor cross section / conductor type / tensile force | 0.2 mm <sup>2</sup> / solid / > 10 N    |
|  | 0.2 mm <sup>2</sup> / flexible / > 10 N |

### Mechanical tests according to standard

|                    |               |
|--------------------|---------------|
| Test specification | IEC 60998-2-3 |
|--------------------|---------------|

### Electrical tests

|                             |                      |
|-----------------------------|----------------------|
| Rated current               | 4 A                  |
| Conductor cross section     | 0.34 mm <sup>2</sup> |
| Rated voltage (III/2)       | 160 V                |
| Rated surge voltage (III/2) | 2.5 kV               |

### Air clearances and creepage distances

|   |                     |
|---|---------------------|
| Clearances and creepage distances               | IEC 60664-1:2007-04 |
| Specification                                   | IEC 60664-1:2007-04 |
| Minimum clearance - inhomogeneous field (III/3) | 1.5 mm              |
| Minimum clearance - inhomogeneous field (III/2) | 1.5 mm              |
| Minimum clearance - inhomogeneous field (II/2)  | 1.5 mm              |
| Minimum creepage distance value (III/3)         | 2.5 mm              |
| Minimum creepage distance value (III/2)         | 1.6 mm              |
| Minimum creepage distance value (II/2)          | 2 mm                |

### Temperature cycles

|               |                       |
|---------------|-----------------------|
| Specification | IEC 60998-2-3:2002-12 |
|---------------|-----------------------|

### Temperature-rise test

|                                   |                                |
|-----------------------------------|--------------------------------|
| Specification                     | IEC 60998-1:2002-12            |
| Requirement temperature-rise test | Increase in temperature ≤ 45 K |

### Current carrying capacity / derating curves

|         |                                   |
|---------|-----------------------------------|
| Caption | Type: PTQ 0,3/...-2,5(-L) THR R32 |
|---------|-----------------------------------|

### Insulation resistance

|  |                       |
|--|-----------------------|
| Specification                                | IEC 60512-3-1:2002-02 |
| Result                                       | Test passed           |
| Insulation resistance, neighboring positions | > 5 MΩ                |

### Glow-wire test

|                  |                     |
|------------------|---------------------|
| Specification    | IEC 60998-1:2002-12 |
| Temperature      | 850 °C              |
| Time of exposure | 5 s                 |

### Mechanical strength/tumbling barrel test

|                       |                     |
|-----------------------|---------------------|
| Specification         | IEC 60998-1:2002-12 |
| Number of drop cycles | 50                  |

# PCB terminal block - PTQ 0,3/ 2-2,5 THR R32 - 1702610

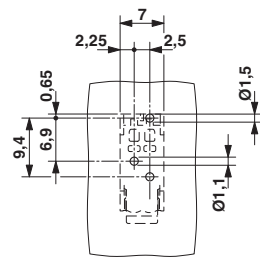
## Technical data

### Standards and Regulations

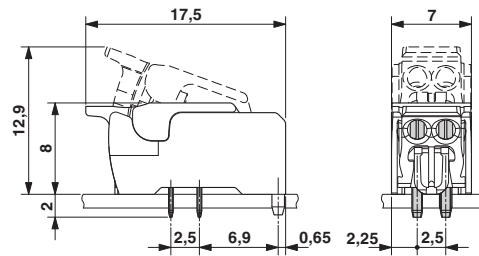
|                                  |   |
|----------------------------------|---|
| Connection in acc. with standard | CUL   |
| Environmental Product Compliance |   |
| China RoHS                       | Environmentally friendly use period: unlimited = EFUP-e |
|                                  | No hazardous substances above threshold values          |

## Drawings

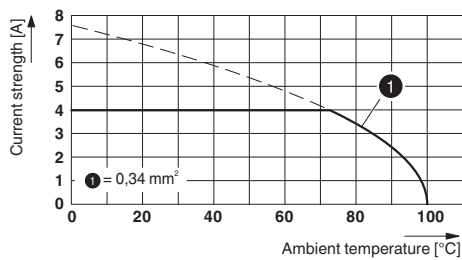
Drilling diagram



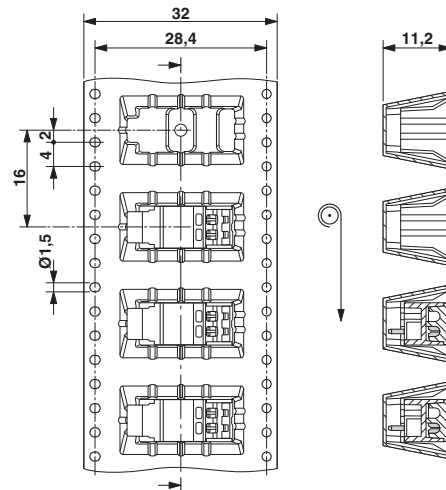
Dimensional drawing



Diagram



Dimensional drawing



Type: PTQ 0,3/..-2,5(-L) THR R32

## Classifications

eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27440401 |
| eCl@ss 11.0   | 27460101 |
| eCl@ss 4.0    | 27260700 |
| eCl@ss 4.1    | 27141100 |
| eCl@ss 5.0    | 27141100 |

# PCB terminal block - PTQ 0,3/ 2-2,5 THR R32 - 1702610

## Classifications

### eCl@ss

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

### ETIM

|          |          |
|----------|----------|
| ETIM 4.0 | EC002643 |
| ETIM 6.0 | EC002643 |
| ETIM 7.0 | EC002643 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211801 |
| UNSPSC 7.0901 | 39121432 |
| UNSPSC 11     | 34131203 |
| UNSPSC 12.01  | 39121432 |
| UNSPSC 13.2   | 39121432 |
| UNSPSC 18.0   | 39121432 |
| UNSPSC 19.0   | 39121432 |
| UNSPSC 20.0   | 39121432 |
| UNSPSC 21.0   | 39121432 |

## Approvals


### Approvals

#### Approvals

VDE Gutachten mit Fertigungsüberwachung / CCA / IEC CB Scheme / EAC / cULus Recognized

#### Ex Approvals

### Approval details

|  |   |  |          |
|--|---|--|----------|
| VDE Gutachten mit<br>Fertigungsüberwachung |  | <a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/<br/>VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a> | 40034315 |
| Nominal voltage UN                         | 130 V   |  |          |
| Nominal current IN                         | 4 A   |  |          |
| mm <sup>2</sup> /AWG/kcmil                 | 0.2   |  |          |

# PCB terminal block - PTQ 0,3/ 2-2,5 THR R32 - 1702610

## Approvals

|                            |       |                |
|----------------------------|-------|----------------|
| CCA                        |       | CCA/ DE1 34151 |
| Nominal voltage UN         | 130 V |                |
| Nominal current IN         | 4 A   |                |
| mm <sup>2</sup> /AWG/kcmil | 0.2   |                |

|                            |       |   |           |
|----------------------------|-------|---|-----------|
| IECEE CB Scheme            |       | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-55832 |
| Nominal voltage UN         | 130 V |   |           |
| Nominal current IN         | 4 A   |   |           |
| mm <sup>2</sup> /AWG/kcmil | 0.2   |   |           |

|     |  |         |
|-----|--|---------|
| EAC |  | B.01687 |
|-----|--|---------|

|                            |       |   |                 |
|----------------------------|-------|---|-----------------|
| 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> | E60425-20110108 |
|                            | B     |   |                 |
| Nominal voltage UN         | 150 V |   |                 |
| Nominal current IN         | 2 A   |   |                 |
| mm <sup>2</sup> /AWG/kcmil | 24    |   |                 |

## Accessories

### Additional products

Sample set - SAMPLE PTQ 0,3/ 2-2,5 THR R32 - 1799099



PCB terminal block, nominal current: 4 A, rated voltage (III/2): 160 V, nominal cross section: 0.34 mm<sup>2</sup>, number of potentials: 2, Number of rows: 1, Number of positions per row: 2, product range: PTQ 0,3/...-THR, pitch: 2.5 mm, connection method: Displacement connection, mounting: THR soldering, conductor/PCB connection direction: 0 °, color: black, type of packaging: 32 mm wide tape

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