

## General

|                       |                             |
|-----------------------|-----------------------------|
| Productgroup          | PowerOne                    |
| Mounting type         | Massive Pressfit Techn      |
| Material              | Brass                       |
| Surface               | tin                         |
| Customs tariff number | 85369095                    |
| Country of origin     | Federal Republic of Germany |
| Weight per piecs ~    | 0.002880 kg                 |

## Technical data

|                          |                              |
|--------------------------|------------------------------|
| Terminal / Type          | Bush through hole / Diameter |
| Thread/Diameter x Length | 5.200 mm x 0.00 mm           |
| Torque                   | 2.20 Nm                      |

|                              |                         |
|------------------------------|-------------------------|
| Socket length x Socket width | 9.000 mm x 9.00 mm      |
| Socket height                | 5.10 mm                 |
| Socket rounded               | yes                     |
| Height total                 | 8.60 mm                 |
| Height over pcb              | 5.10 mm                 |
| No. of Pins                  | 12                      |
| Pin length                   | 3.50 mm                 |
| Grid dimension X / Y         | 2.54 mm / 2.54 mm       |
| Pin alignment                | Circumference with hole |

## Processing

|                 |                               |
|-----------------|-------------------------------|
| Press-in force  | 480 N up to 3000 N            |
| Retention force | 60-80 % of press-in force     |
| Press-in speed  | 100 mm/min. up to 250 mm/min. |
| PCB thickness   | 1.60 mm up to 3.20 mm         |
| Notice          |                               |

### Current carrying capacity

Part (20°C) ~ / (85°C) ~ 180.000 A / 108.000 A

## Usage and storage

|                    |                                                   |
|--------------------|---------------------------------------------------|
| Temperature        | -40 °C up to +150 °C                              |
| Storage            | dry environment protected from weather conditions |
| Storage conditions | at +5 °C up to +40 °C, 75% RH, non-condensing     |

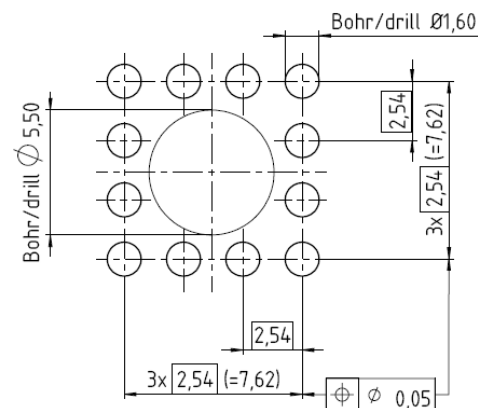
## Accessories

Press in tool

### Co-applicable documents

Powerelement Guidelines [Link to Powerelement Guidelines](#)

### Standard drill pattern



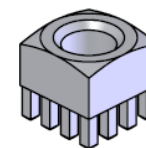
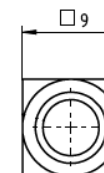
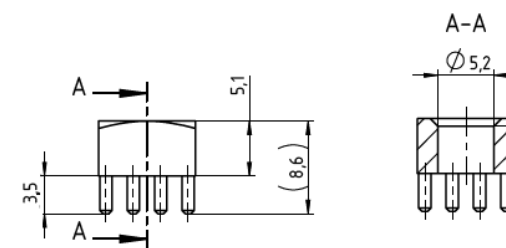
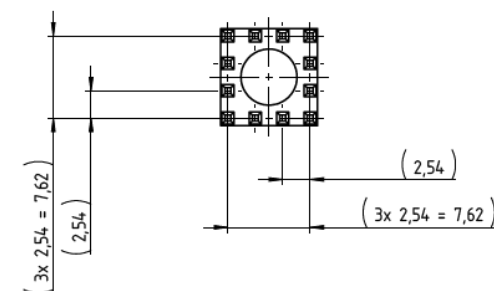
### Drill hole specification for PCB

|         |                                                                                   |                          |                                                   |
|---------|-----------------------------------------------------------------------------------|--------------------------|---------------------------------------------------|
| Drill Ø |  | drill tool<br>drill hole | 1,60 mm<br>1,60 mm - 0,025 mm                     |
| Cu      |  | Cu – in Hole             | Average 30 µm – 60 µm<br>min. 25 µm, max. 80 µm * |
| End Ø   |  | HAL<br>chem. surfaces    | (1,450 mm +/- 0,05 mm)<br>(1,475 mm +/- 0,05 mm)  |

**Note:** For Press-fit Technology drill diameter and copper thickness are fix. End Ø for reference only.

\* single measurement points in microsection

### Dimensions



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### General tolerances

DIN ISO 2768-mH

Projection mode



### Revision

C

Date \_\_\_\_\_

23.06.25

All measures in

mm

Part no.

**K93901**

### Description

### PowerOne Bush vertical through hole



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