

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 ~    | 0.009770 kg                 |

Technical data

|                          |                     |
|--------------------------|---------------------|
| Terminal / Type          | blind hole / Metric |
| Thread/Diameter x Length | 6.000 mm x 9.50 mm  |
| Torque                   | 3.90 Nm             |

|                              |                      |
|------------------------------|----------------------|
| Socket length x Socket width | 10.000 mm x 10.00 mm |
| Socket height                | 14.00 mm             |
| Socket rounded               | yes                  |
| Height total                 | 17.50 mm             |
| Height over pcb              | 14.00 mm             |
| No. of Pins                  | 16                   |
| Pin length                   | 3.50 mm              |
| Grid dimension X / Y         | 2.54 mm / 2.54 mm    |
| Pin alignment                | Full plain           |

Processing

|                 |                               |
|-----------------|-------------------------------|
| Press in force  | 640 N up to 4000 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) ~ | 160.000 A / 96.000 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       |

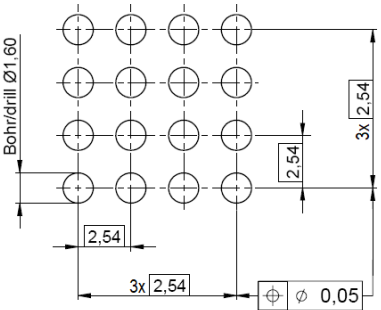
Accessories

|               |  |
|---------------|--|
| Press in tool |  |
|---------------|--|

Co-applicable documents

|                         |                                 |
|-------------------------|---------------------------------|
| Powerelement Guidelines | Link to Powerelement Guidelines |
|-------------------------|---------------------------------|

Standard drill pattern



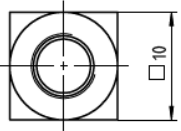
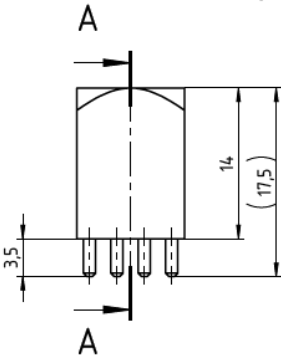
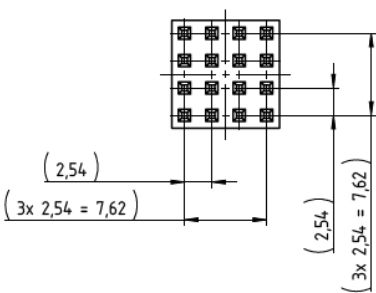
Drill hole specification for PCB

|         |  |                |                                                   |
|---------|--|----------------|---------------------------------------------------|
| Drill Ø |  | drill tool     | 1,60 mm                                           |
|         |  | drill hole     | 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            | (1,450 mm +/- 0,05 mm)                            |
|         |  | chem. surfaces | (1,475 mm +/- 0,05 mm)                            |

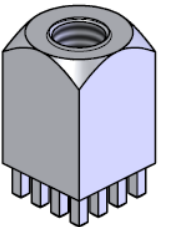
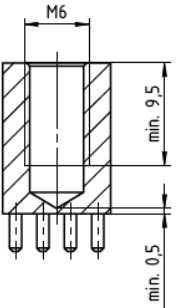
Note: For Press-fit Technology drill diameter and copper thickness are fix. End Ø for reference only.

\* single measurement points in microsection

Dimensions



A-A



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General tolerances

DIN ISO 2768-mH

Projection mode



Revision

D

Date

12.06.25

All measures in

mm

Part no.

**K91833**

Description

**PowerOne Bush vertical blind hole**



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