# PCB Mounting Pillars

**multicomp**

## Features and Application:

- Enhance the grounding of the cinterion module to the PCB
- Simple production process
  1. SMT process to solder mounting pillars to the PCB
  2. Self-locking screw solution for mounting the module on to the mounting pillars
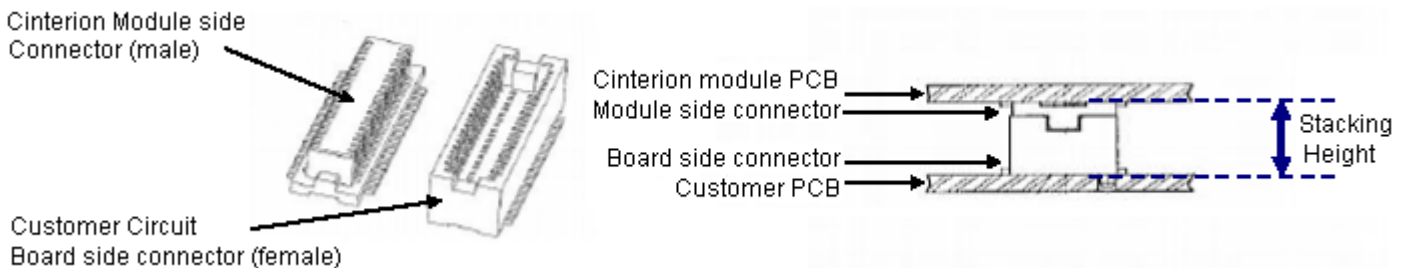- Flexible solution with easy access to remove the module

Mounting Pillar

Self-locking Screw

$5 \; {}^{+0}_{-0.2}$

$\varnothing 2.7 \pm 0.05$

$3.1 \; {}^{+0}_{-0.1}$

$\varnothing 3.2 \pm 0.3$

$\varnothing 5 \; {}^{+0}_{-0.2}$

$\varnothing 2.7 \pm 0.05$

$5.1 \; {}^{+0}_{-0}$

$\varnothing 3.2 \pm 0.3$

Dimensions : Millimetres

## Mounting Pillar and Screw Specifications:

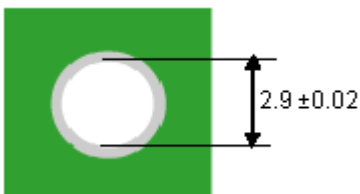| | |
|---|---|
| Inner Raw Material | : Ms58 (C3602) copper alloy |
| First Plating Layer | : Copper flash |
| Second Plating Layer | : Nickel plating (1 μm) |
| Third Plating Layer | : Gold plating (0.8 μm) |
| Weight | : 0.35 g |

## Stacking Height Definition

When both connectors are mated together:

Cinterion Module side Connector (male)

Customer Circuit Board side connector (female)

Cinterion module PCB
Module side connector
Board side connector
Customer PCB

Stacking Height

## Mounting Instructions

$2.9 \pm 0.02$

Dimensions : Millimetres

| | |
|---|---|
| Plated PCB hole size to accommodate the solder mounting pillars | : 2.9 ±0.02 mm |
| PCB footprint for hole locations | : Please refer to the cinterion module datasheet |

www.element14.com
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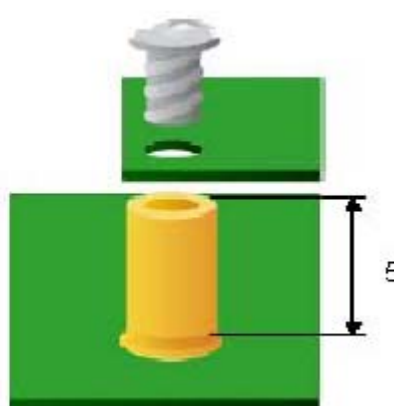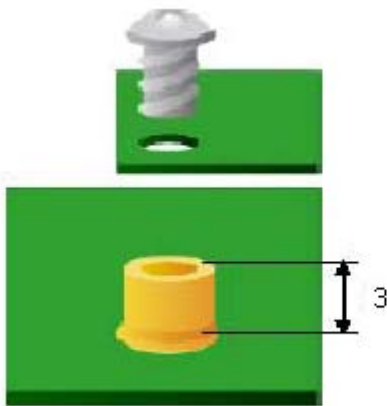**Step1 : SMT Process For Mounting Pillars**



2.7±0.05
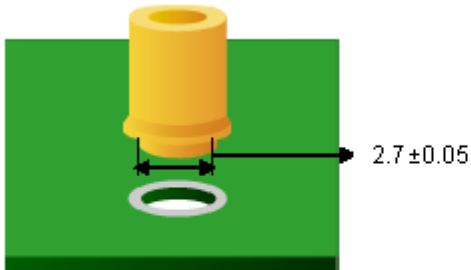
Solder paste applied to pad on PCB

Solder the Mounting Pillar in place using standard surface mount Techniques

**Step2 : Mounting the Module with Self-Locking Screws**



3

5

Dimensions : Millimetres

**The torque values for tightening the screws are:**

Recommended torque for tightening          : 1.5 kgf.cm
Maximum torque for tightening               : 1.7 to 1.8 kgf.cm

## Part Number Table

| Description | Part Number |
|---|---|
| Pillar for Cinterion Module, 3 mm | R-14-0076 |
| Pillar for Cinterion Module, 5 mm | R-14-0077 |

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