

# PCB Mounting Pillars for all Cinterion Wireless Modules (3mm / 4mm / 5mm Stacking Heights)

V1.1 20th April 2009

GTT Mounting Pillar Part Numbers : R-14-0076 (3mm), R-14-0075 (4mm) , R-14-0077 (5mm)

GTT Self-locking screw Part Number : R-14-0067

Mounting Pillar Stacking Height choice made by reference to Cinterion Module Datasheet

ALL Cinterion modules are supported apart from the MC55 module

Please order the self-locking screws as a separate line

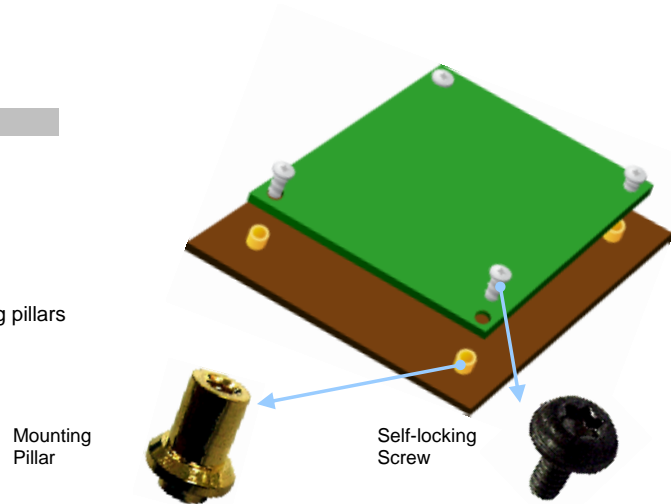
## FEATURES AND APPLICATION

1) Enhance the grounding of the Cinterion module to the PCB

2) 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

3) Flexible Solution with easy access to remove the module

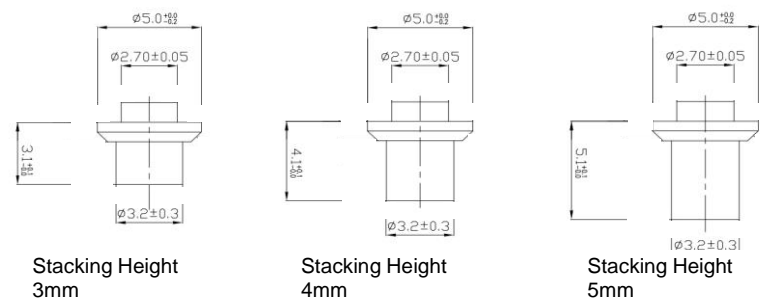


## MOUNTING PILLAR & SCREW SPECIFICATIONS

Mounting Pillar GTT Mounting Pillar P/N : R-14-0076 (3mm), R-14-0075 (4mm) , R-14-0077 (5mm)

Inner raw material : Ms58 (C3602) Copper alloy  
 First plating layer : Copper Flash  
 Second plating layer : Nickel plating (1.0µm)  
 Third plating layer : Gold plating (0.8µm)

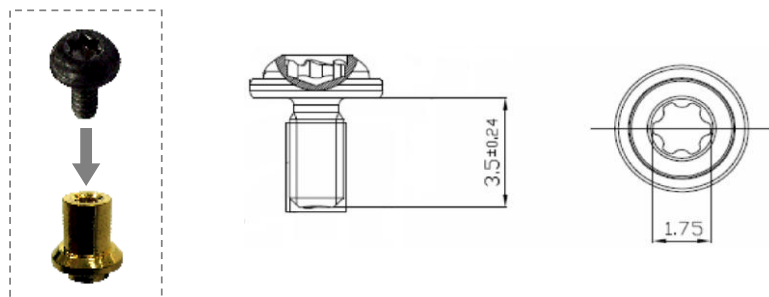
Weight : 0.35 g



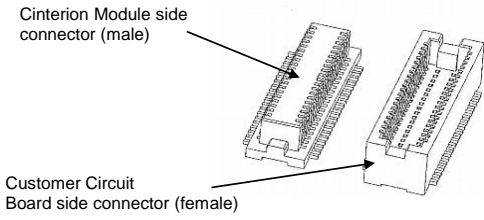
Screw GTT Self-Locking Screw P/N : R-14-0067

Material : Iron  
 Surface : Black color (Anti-Oxidant Treatment)  
 Screw Head: Torx

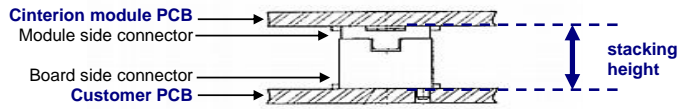
Weight : 0.07 g



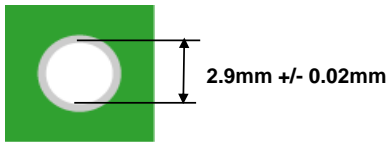
## STACKING HEIGHT DEFINITION



When both connectors are mated together :

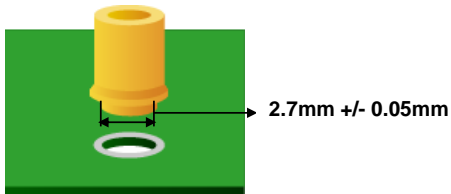


## MOUNTING INSTRUCTIONS



Plated PCB Hole Size to accommodate the solder mounting pillars:  $2.9\text{mm} \pm 0.02\text{mm}$   
 PCB Footprint for hole locations : Please refer to the Cinterion Module Datasheet

### Step1 : SMT process for Mounting Pillars

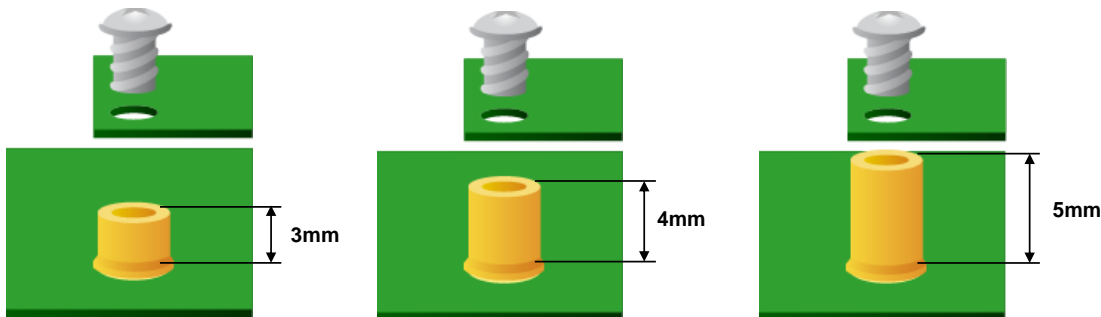


Solder paste applied to pad on PCB



Solder the Mounting Pillar in place using standard surface mount Techniques

### Step2 : Mounting the module with Self-locking Screws



The Torque values for tightening the Screws are :  
 1) Recommended Torque for tightening = 1.50 Kgf.cm  
 2) Maximum Torque for tightening = 1.70 - 1.80 Kgf.cm