# A – Soldering procedure using automatic pick and place

#### 1-Solder paste:

that will permit the elimination of the cleaning operation step Pb35–Ag2. It is recommended using a « no clean - low residue » solder cream (5% solid residue of flux quantity) Cu0.7 solder cream may be used as well as standard Sn63-R596 series are « Lead Free », and Lead Free Sn-Ag3.5-

**Note:** Due to the gold plating of the switch PCB interface, it is important to use a paste made with silver. This will help in avoiding formation of intermetallics as part of the solder joint. RECOMMENDED SOLDERING PROCEDURE

### 2-Solder paste deposition:

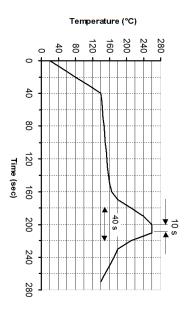
silk-screen printing of 0.15 mm (0.006 "). stenciling area are given on page 7, for a thickness of the oxydated. The design of the mounting pads and the contaminates, and that the PCB zoned areas have not verify that the edges of the zone are clean and without shapes to achieve good solder wetting. Please optically solder paste must be coated to appropriate thickness and printing or dispenser technologies. For either method, the Solder cream may be applied on the board with screen

### 3-Placement of the component:

component or on the PCB equipment. Various types of suction can be used on their soldering pads, typically +/- 0.1mm (+/-0.004").
Place the relay onto the PCB with automatic pick and place relays components and they require a errors exist. However, this effect is not as expected for a self-alignment effect can be expected if small placement For small lightweight components such as chip components We do not recommend using adhesive agents on the accurate positioning

### 4-Soldering: infra-red process

red reflow or forced air convection: Please follow the recommended temperature profile for infra-



duration would damage permanently the switches Higher temperature (>260°C) and longer process

#### 5-Cleaning procedure:

On miniature relays, high frequency cleaning may cause the contacts to stick. If cleaning is needed, please avoid ultrasonic cleaning and use alcohol based cleaning

degradation of internal contacts especially under temperature, may cause a risk of

#### 6-Quality check:

Verify by visual inspection that the component is centered on

of meniscus on the pads are proper, and have a capillarity amount upper the third of the height. the mounting pads.
Solder joints: verify by visual inspection that the formations

### ω I Soldering procedure by manual operation

## 1-Solder paste and flux deposition:

Refer to procedure A -

Deposite a thin layer of flux on mounting zone.

Allow the flux to evaporate a few seconds before applying

the solder paste, in order to avoid dilution of the paste.

### 2-Solder paste deposition:

on the mounting zone area by syringe. We recommends depositing a small amount of solder paste

Be careful, not to apply solder paste outside of the zone

### 3-Placement of the component:

During manipulation, avoid contaminating gold surfaces by contact with fingers.

the top of the relay lid Place the component on the mounting zone by pressing on

Iron wattage 30 to 60 W

Tip temperature 280 to 300°C for max. 5 seconds
To keep good RF characteristics above 3GHz, it is important
to solder RF ports first, and apply pressure on the relay lid
during all the soldering stage, so as to reduce the air gap between the PC board and the relay.

### 5-Cleaning procedure:

Refer to procedure A – 5

#### 6-Quality check:

mounting pads. Verify by visual inspection that component is centered on the

Solder joints: verify by visual inspection that the formations of meniscus on the RF pads are proper, and have a capillarity amount higher than one third of the height.