

Heat Gun Soldering Guide for DFN Products

1. Preparation

- 1.1 Equipment: heat gun, solder paste, tweezers, syringe or steel mesh;
- 1.2 Heat gun parameters: air volume: at the 3rd-4th gear, temperature: at the 4th-5th gear (240°C-300°C) (MORNSUN uses the parameters of QUICK 990A; and parameters of different equipment may vary).

2. Operation

- 2.1 Auxiliary tools such as syringe or steel mesh can be used to tin on the pad;
- 2.2 Confirm that the solder paste is evenly spread on the solder joints, as shown in Figure 1;
- 2.3 Place the product pins corresponding to the pads, and gently press the product, as shown in Figure 2;
- 2.4 Heat the solder joints evenly and melt the solder paste with the heat gun muzzle at 45° inclination, as shown in Figure 3;
- 2.5 Turn off the power of the heat gun, and then unplug the power plug after 5 minutes of its cooling down.

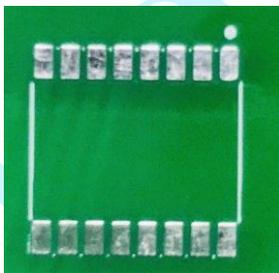


Fig.1



Fig.2

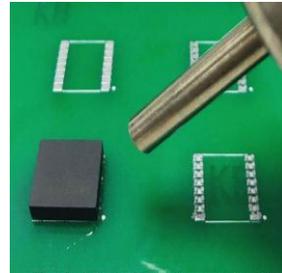


Fig.3

3. Notes

- 3.1 The product must be packaged and stored according to moisture sensitive requirements before soldering;
- 3.2 Ensure the ESD protection of the products when soldering;
- 3.3 Ensure the amount of tin in the product not to be too much or too little to avoid poor soldering;
- 3.4 If the product is offset during the operation of the heat gun, use tweezers to correct the product in the silk screen printing frame or gently press the product with tweezers before operation;

3.5 Avoid heating a certain area for a long time during the operation of the heat gun to avoid burning the substrate.

To ensure favorable soldering effect and reliability, reflow soldering is recommended.

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