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Soldering of Supercapacitors

Hand soldering (soldering iron)

1. When soldering supercapacitors with a soldering iron the exposure should be limited to 350°C for 3.5 seconds.
2. Circuit board thickness should be 1.6mm +/-0.5mm
3. At no time should the soldering iron come in contact with the capacitor body. Contact with the body can cause the sleeving to crack or melt.
4. To remove a capacitor from a printed circuit board, the capacitor should be pulled on gently after the solder holding the capacitor to the circuit board has sufficiently melted.

Wave soldering

1. Supercapacitors are not to be immersed into the solder bath at anytime. To do so would result in the internal pressure within the capacitor to rise, damaging the capacitor.
2. Supercapacitors are only to be mounted to the topside of the circuit board.
3. Circuit board thickness should be 1.6mm +/-0.5mm.
4. Preheat temperature should be 170°C.
5. The capacitor should be exposed to a solder bath temperature of 260°C for 2~3 seconds.
6. Heat conducting components like resistors and lead wires, should not be in contact or near supercapacitors. This will prevent heat from these components being transmitted to the capacitors sleeve and damaging the sleeve.