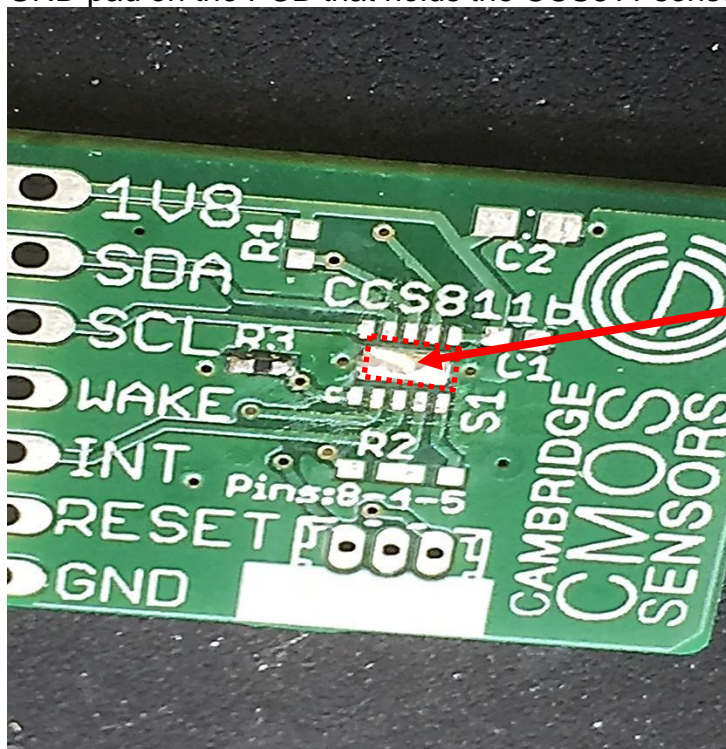


APPLICATION NOTE: Recommended Hand Soldering Method for CCS811

1. Place PCB onto a heat resistant mat then add a small amount of solder to the CCS811 GND pad on the PCB that holds the CCS811 sensor. See picture below.



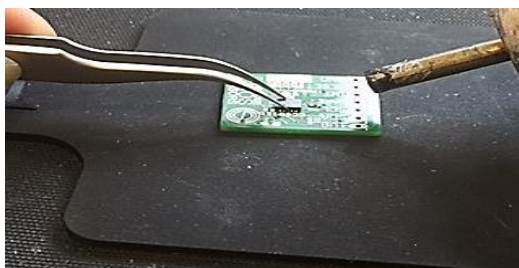
CCS811
GND pad

Please note when doing **step 1** do not add too much solder to the pad as this will spread out underneath CCS811 and will cause a short due to bridging.

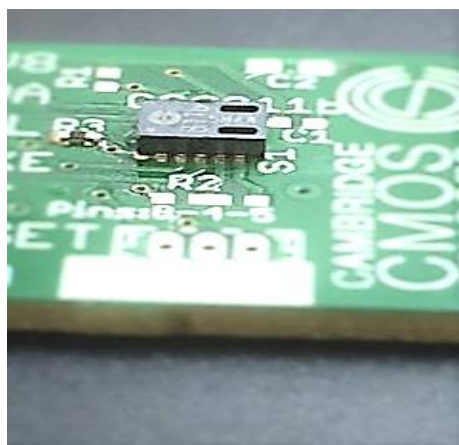
2. Using a heat gun set at 370°C melt the solder on the pad of the PCB. Using the tweezers to check the solder has melted.



3. With the heat gun still on the pad. Ensure that you have no plastic items that could come in contact with the heat gun as these will melt and deform. Good form of protection for those items is Kapton tape.
4. Make sure that you are looking directly over the pad so you can see both sides of the CCS811 to align the legs of the CCS811.
5. Once the solder has melted. Keeping the heat gun at an angle so that it doesn't melt CCS811 sensor. Place the CCS811 sensor onto the PCB. All the time taking care not to place too much heat on the CCS811 but more onto the PCB pad that the CCS811 is being fitted to. This process needs to be done very quickly. As once the CCS811 is placed over the pad. The solder may cool down without the direct flow from the heat gun. If the solder does cool down move the CCS811 sensor out of the way and repeat step 2.



6. Once you have successfully placed down the CCS811 sensor. Make sure the pads on the PCB and the legs of CCS811 sensor align. Also that the CCS811 is sitting flush to the PCB.



7. Gently nudge the CCS811 with your tweezers to make sure you have good contact from the pad underneath. Once you have established that the CCS811 sensor is seated down securely. Solder the legs around the CCS811 sensor.

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