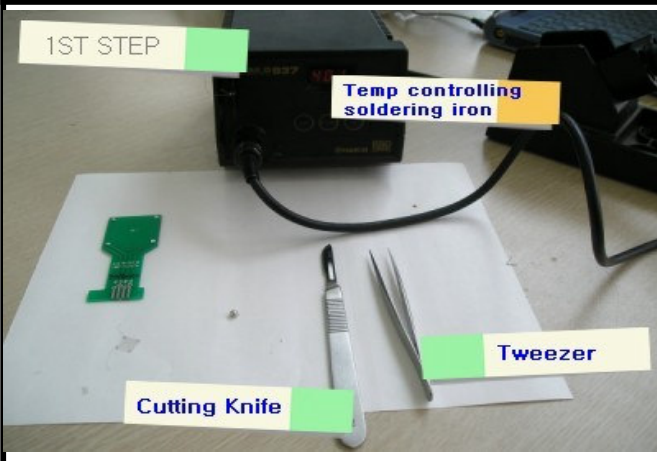

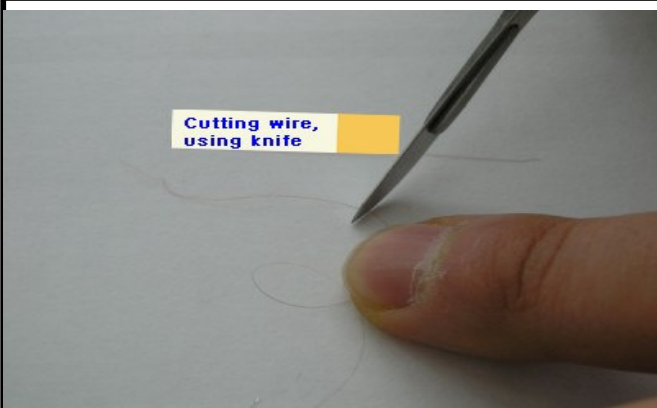


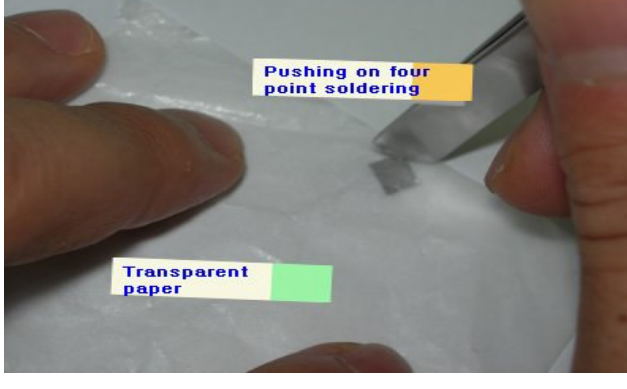


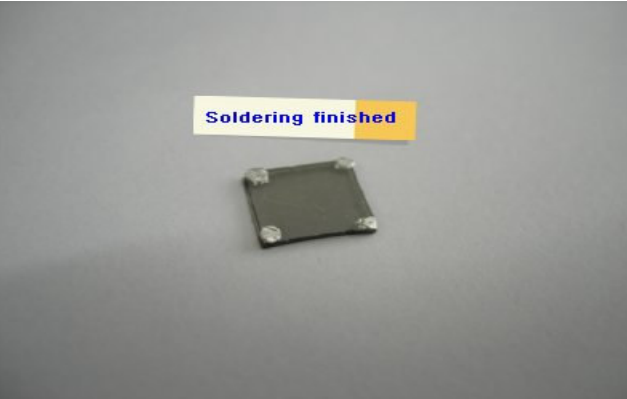
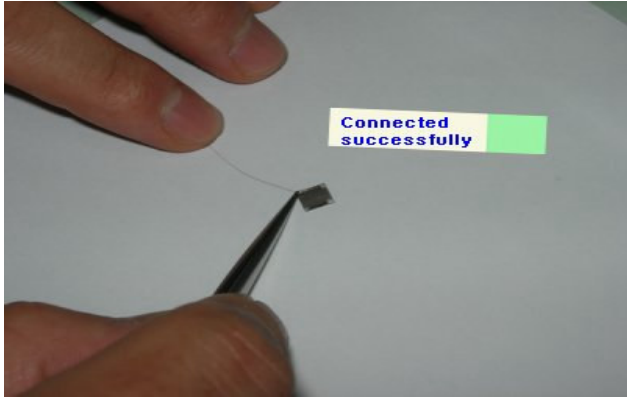
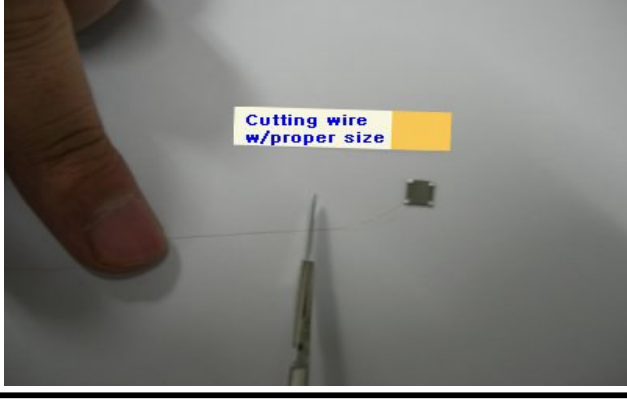
## MOUNTING SAMPLE ON BOARD (1)

 <p>1ST STEP</p> <p>Temp controlling soldering iron</p> <p>Cutting Knife</p> <p>Tweezer</p> <p>A photograph showing the tools and materials for the first step of mounting a sample on a board. A green printed circuit board (PCB) is on a white surface. Next to it are a cutting knife, tweezers, and a temperature-controlled soldering iron. Labels identify each item.</p>	<p>User has to prepare for left cutting knife, tweezers, temperature control soldering iron, Sample board and InSn compound.</p>
 <p>Temp controlling soldering iron</p> <p>A close-up photograph of a temperature-controlled soldering iron. The digital display on the iron shows the number 400, indicating the temperature is set to 400 degrees Celsius.</p>	<p>When soldering, pls set up soldering iron on 350 ~ 400°C. It is best temp to solder. Too high and too low temperature is not so good to solder.</p>
 <p>Cutting wire, using knife</p> <p>A close-up photograph showing a person's hand using a sharp knife to cut a thin wire on a white surface.</p>	<p>Cutting copper wire or gold wire with proper size to connect, using sharp knife.</p>

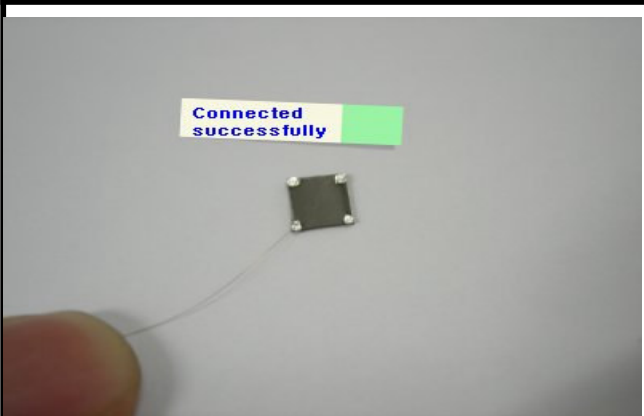

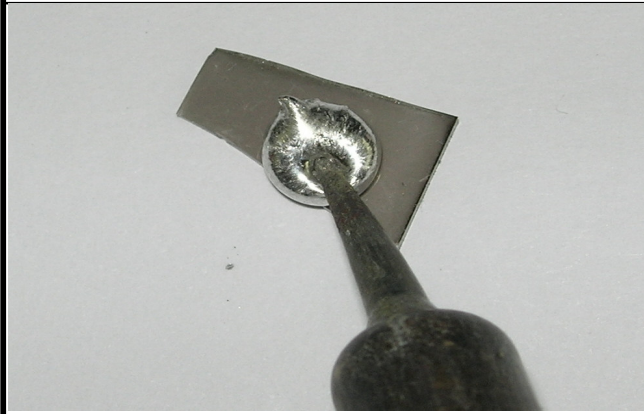
## MOUNTING SAMPLE ON BOARD (2)

 <p>Cutting InSn compound minutely</p>	<p>Cutting InSn compound minutely.</p> <p>InSn can be usually used for electrical conductivity material. However, for some other samples, silver paste, carbon paste are recommended to improve ohmic contact.</p>
 <p>Soldering in four points, using iron.</p>	<p>Soldering in four points , using soldering iron. It has to be done in four points edge. And, if it was not annealed sample, annealing about 1min might be helpful.</p>
 <p>Pushing on four point soldering</p> <p>Transparent paper</p>	<p>After soldering in four points edge, four points should be flat , using transparent paper and tweezers. It might help to connect wire to soldering. Just push slightly above , seeing through transparent paper.</p>

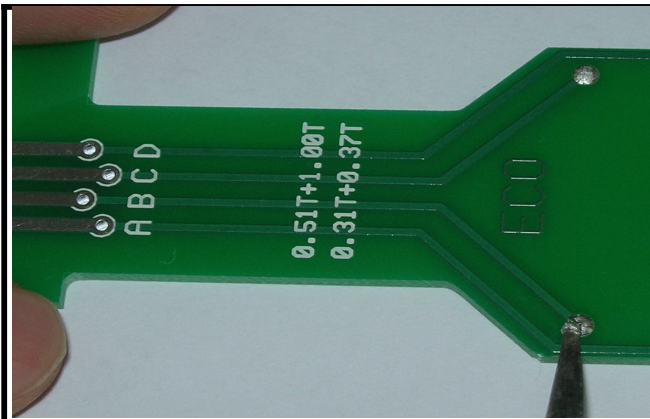
## MOUNTING SAMPLE ON BOARD (3)

 <p>Soldering finished</p>	<p>Four points soldering was finished as left pictures.</p>
 <p>Connected successfully</p>	<p>Put the wire on soldering edge and then push it slightly ,using tweezer.</p>
 <p>Cutting wire w/proper size</p>	<p>Cutting copper wire or gold wire with proper size to connect , using sharp knife.</p>

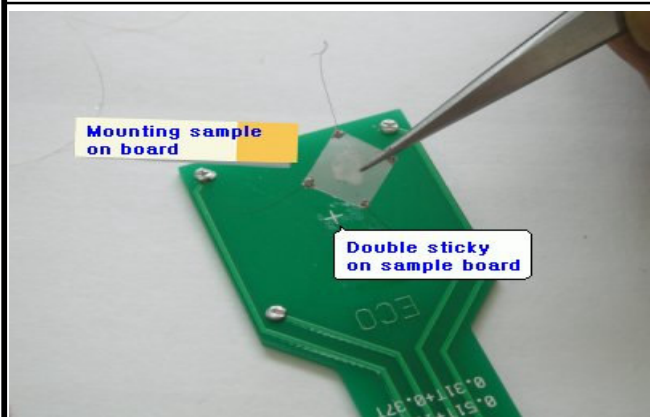
## MOUNTING SAMPLE ON BOARD (4)

 <p>Connected successfully</p>	<p>Connected successfully. Pull the wire slightly to check if it is really connected.</p>
 <p>Connecting finished on four points.</p>	<p>Connect wire to soldering 4point each. It was successfully connected as left.</p>
	<p>Put the InSn compound on the sample not used. And, put the soldering iron onto InSn. It is melted as shown left.</p>

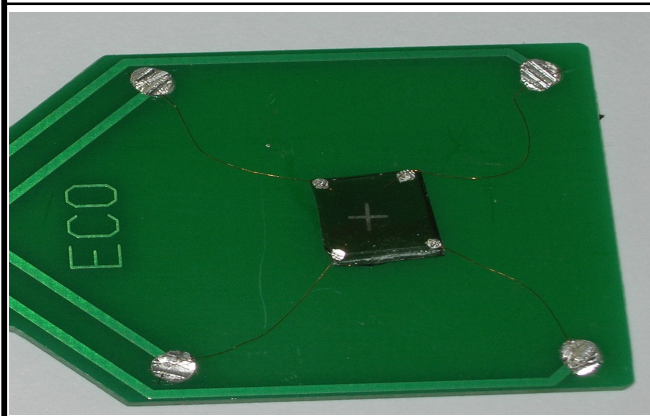
## MOUNTING SAMPLE ON BOARD (5)



Put the soldering iron that has melted InSn compound onto four point as shown left. It 's o.k to be proceeded in the first step in advance.



Put the connected sample on the center of the PCB board. There is double sticky tape on the center of the sample. And, then connect wire on the soldering of 4point of PCB.



It was finished to connect wire to soldering on 4points and mounting sample on PCB board.