

Surface Mounting Devices

MercedEnergy.com

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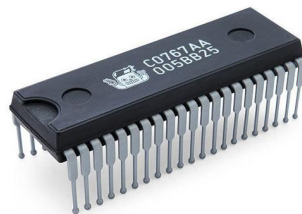
Soldering

<https://github.com/MercedEnergy/Soldering>

SMD & SMT

- Surface Mounted Devices
 - Placed directly on the surface. Lie on PCB
 - Generally Done By a Machine
 - Can be done with a soldering iron
- Small Surface Mounted Technology

Integrated Circuits



- “an electronic circuit formed on a small piece of semiconducting material, performing the same function as a larger circuit made from discrete components.”
- Cheaper, faster, and very small.
 - Difficult to handle.

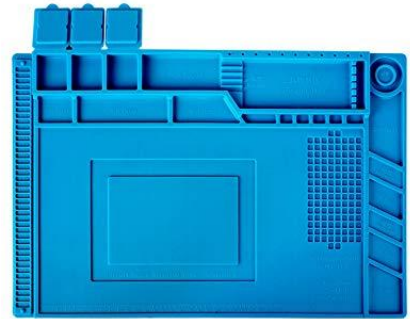
Tweezers



- When dealing with very small components.
 - Straight or Curved tip
- ESD Electrostatic Discharge safe and non magnetic

Silicone Mat

- Can help you organize.
- Can handle high heats.
 - Prevents shorts
 - Prevents damage to components



Thank You!

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Sources

Vinck, Marc De. Getting Started with Soldering: a Hands-on Guide to Making Electrical and Mechanical Connections. Maker Media, 2017.