

Surface Wave Touch (SAW)

Resistive Touch

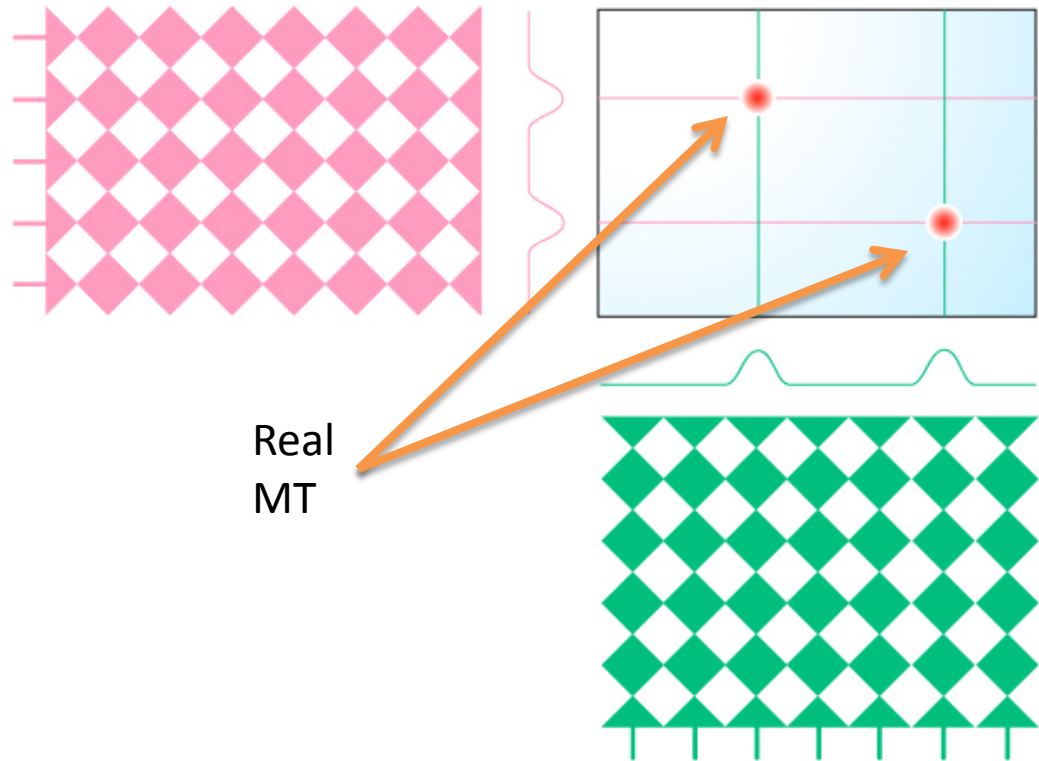
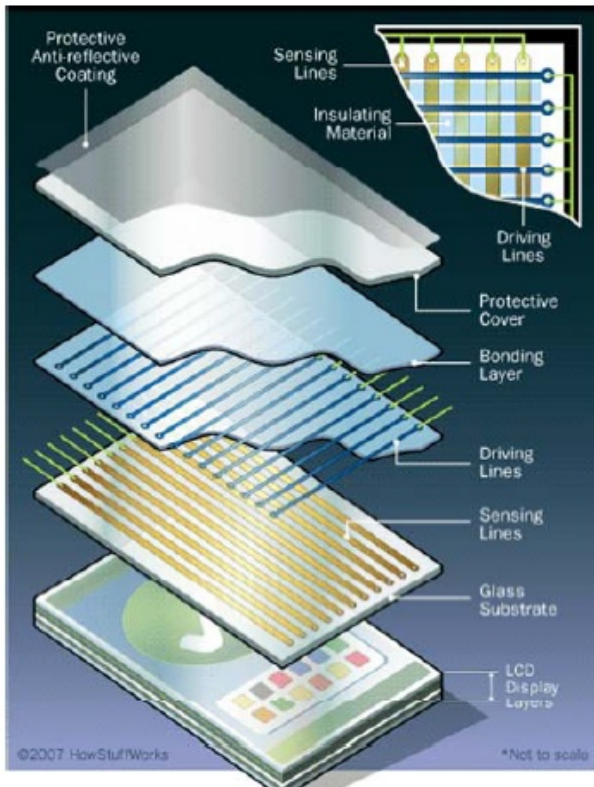
Projected Capacitive Touch (CPT)

Infrared light Touch (IR)

CCD Sensor Touch (CST)

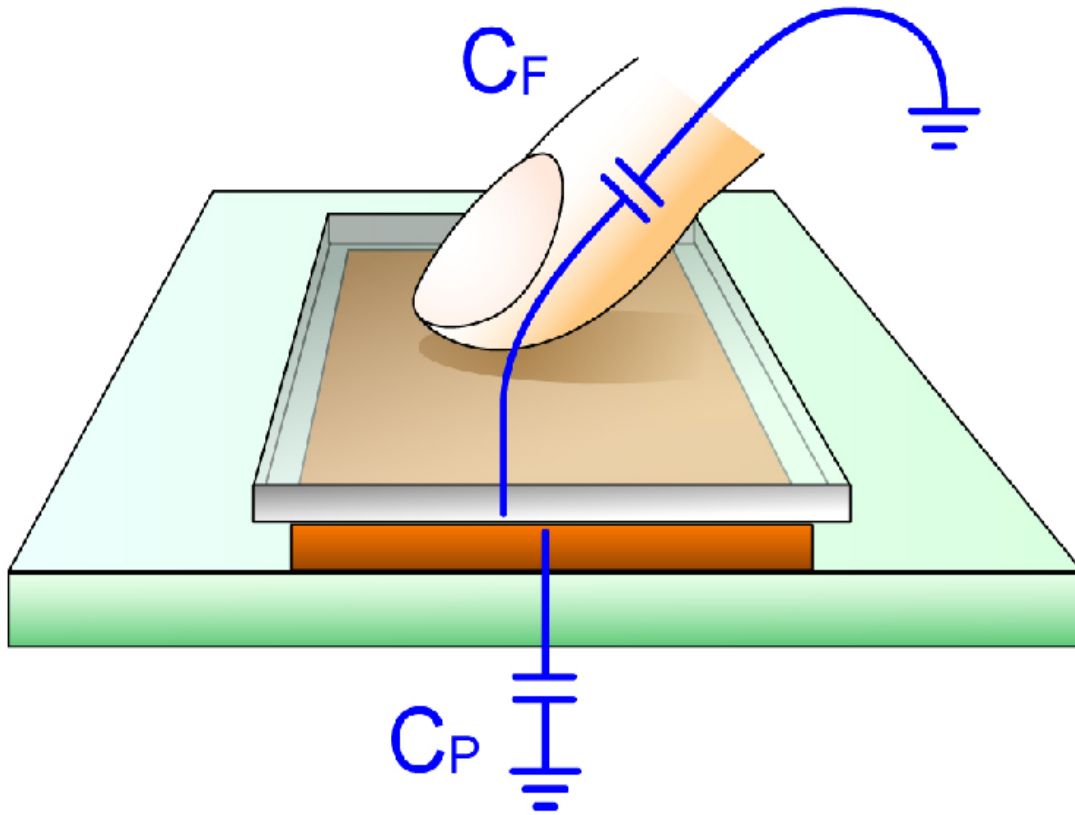


Projected Capacitive Touch screen

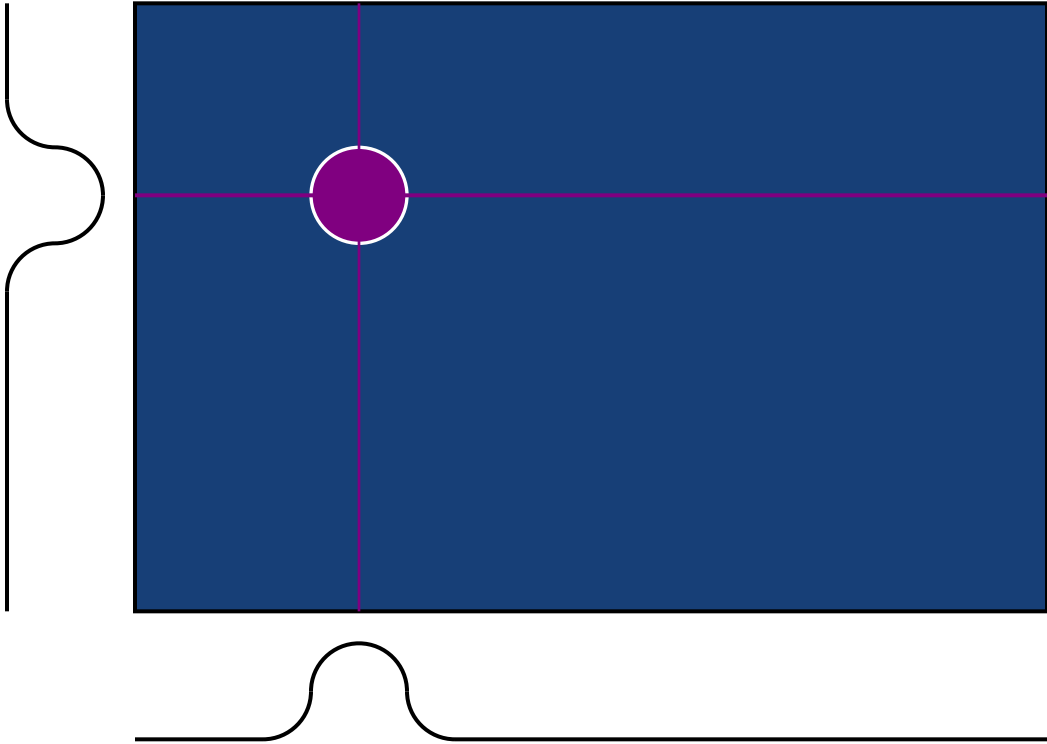


How It Works

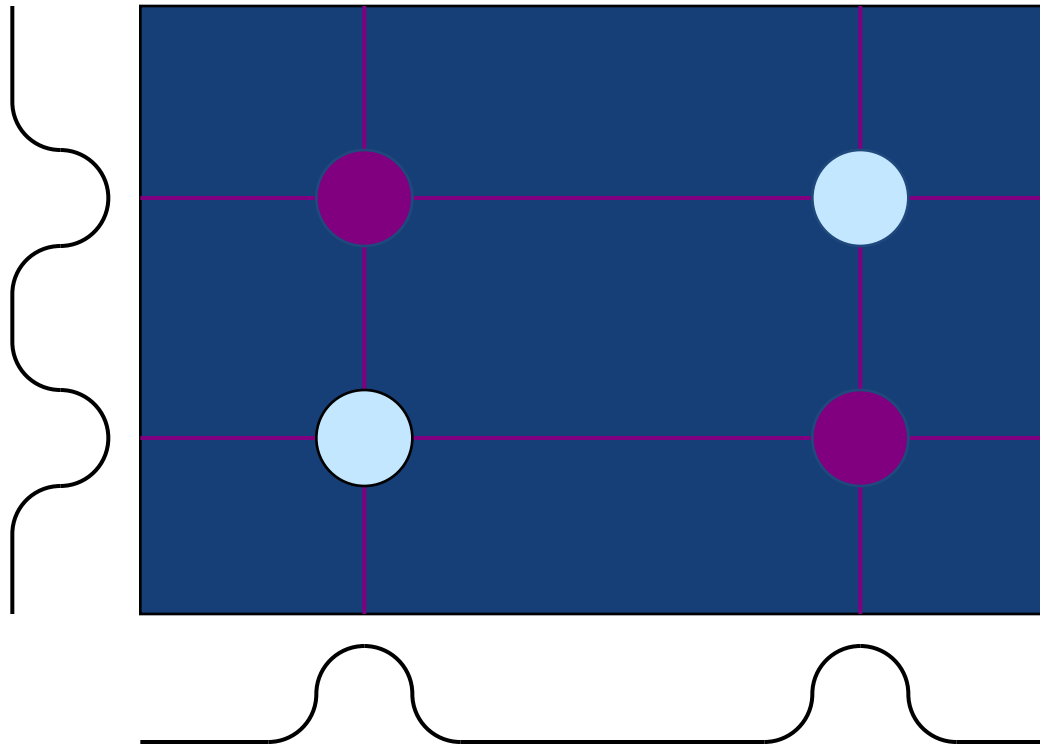
- Capacitance formed when finger approaches



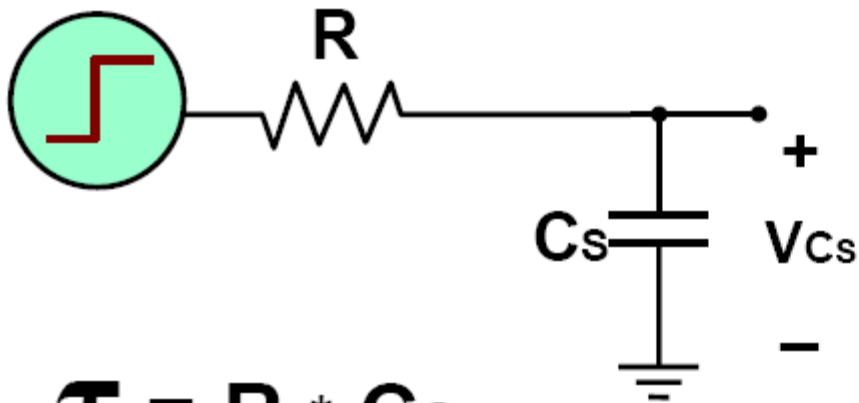
Capacitance changed measured- Single Touch



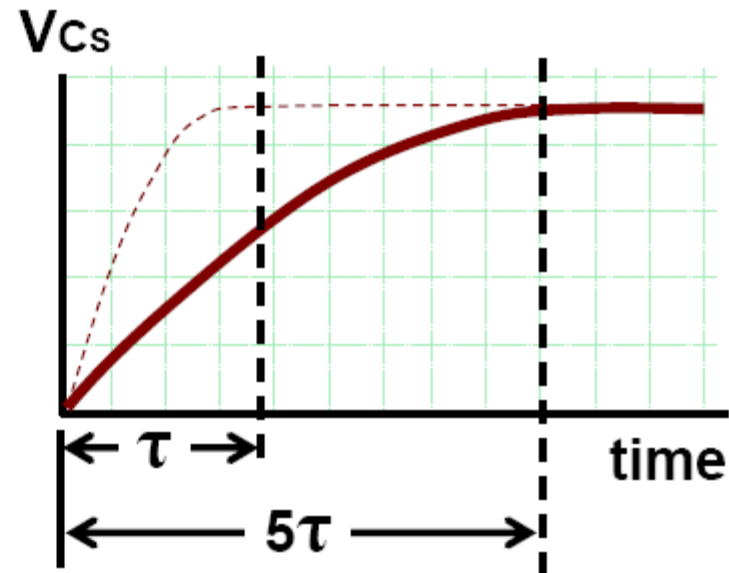
Capacitance changed measured - 2 Touches



How it Measured - Time Constant Delay

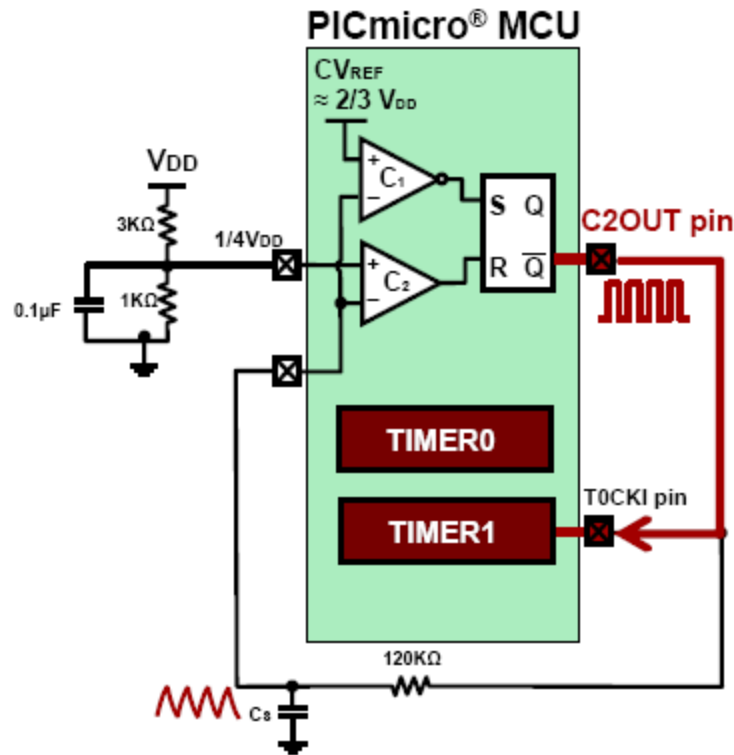


$$\tau = R * C_s$$

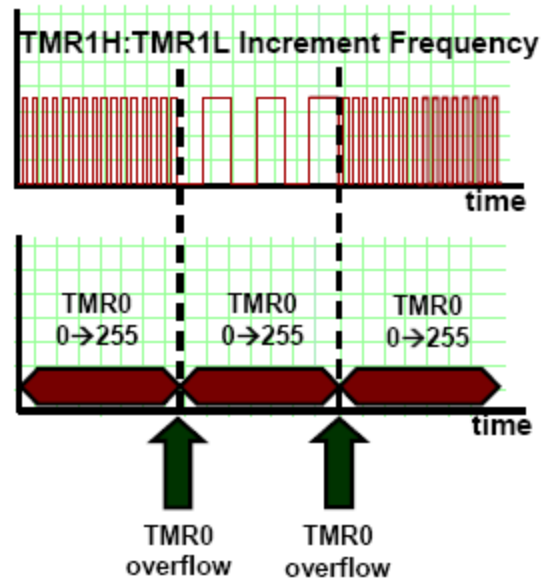


(Data source: Microchip)

How it Measured- Frequency Measurement



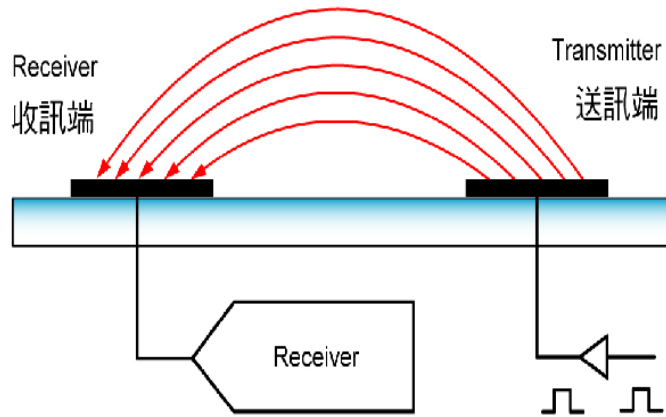
TMR0 interrupt provides a fixed time base for measurement



(Data source : Microchip)

How it Measured- Shunt Signal

接觸前



接觸時

