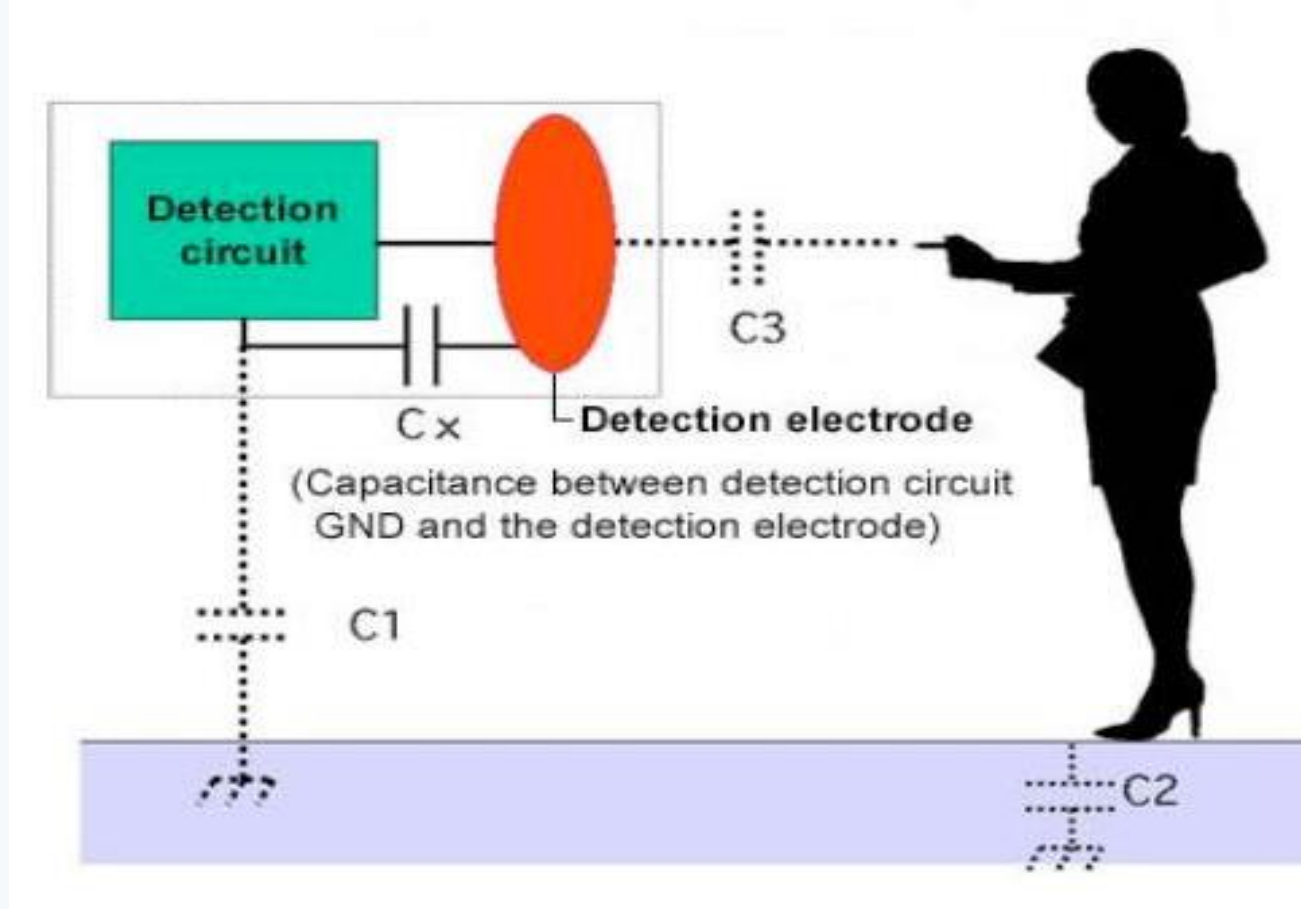


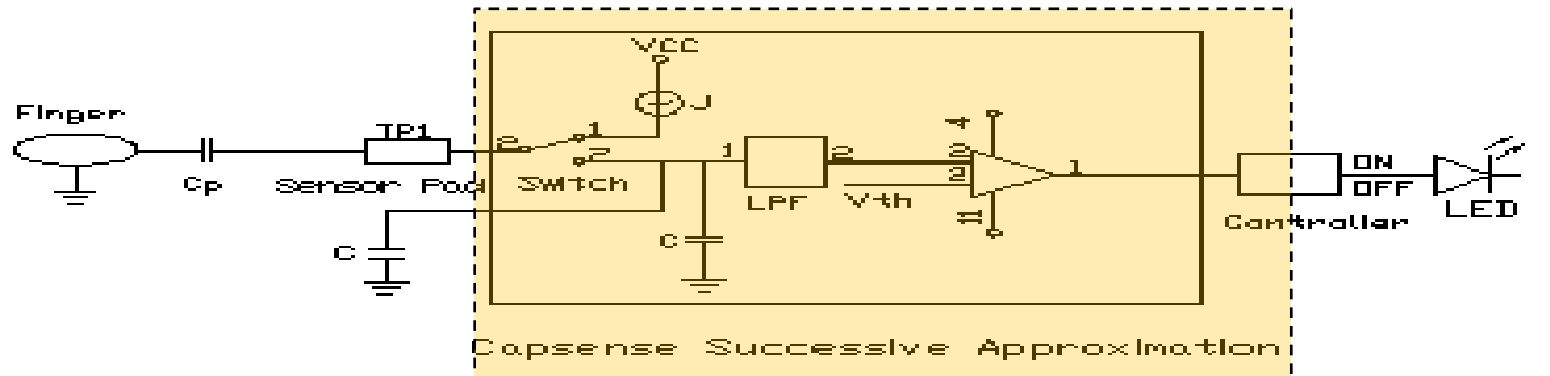
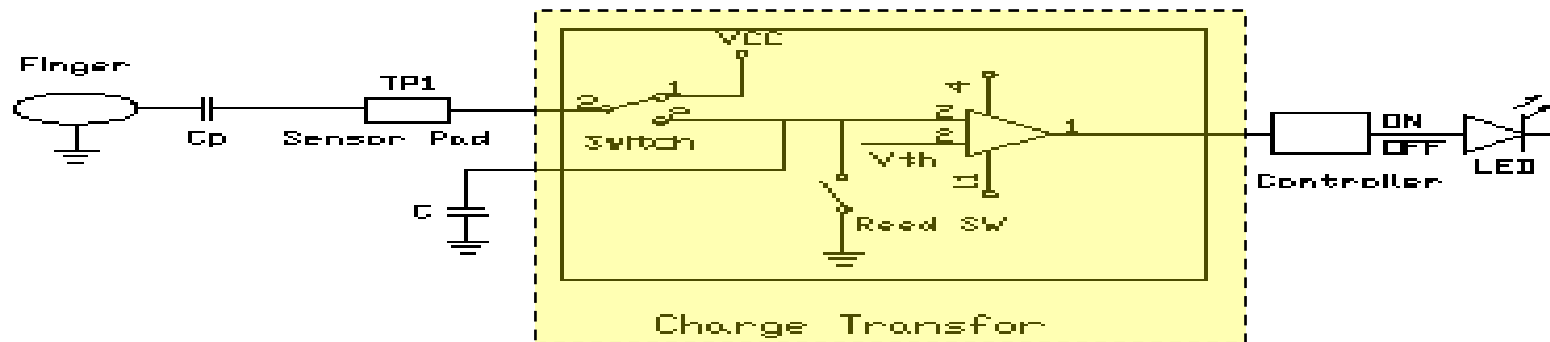
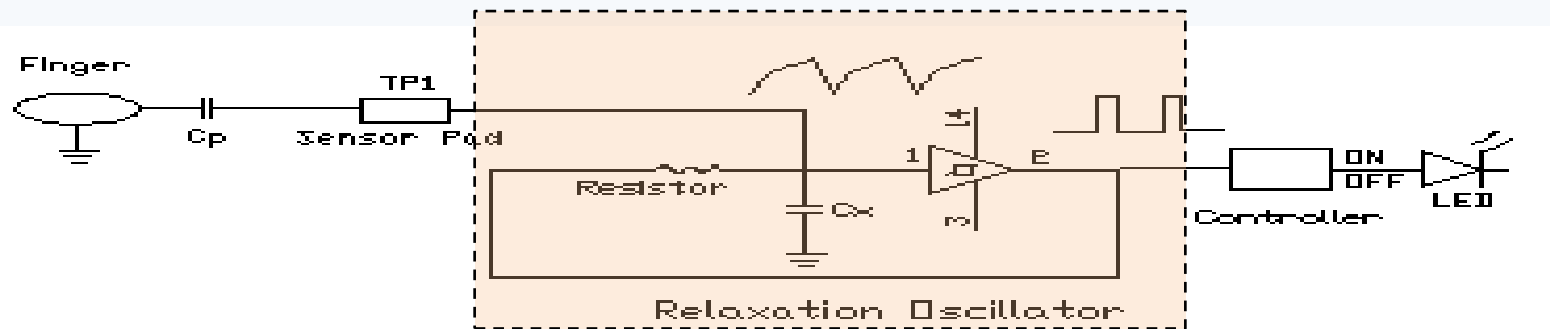


LED Touch Switch introduction

Principle of LED Touch Switch

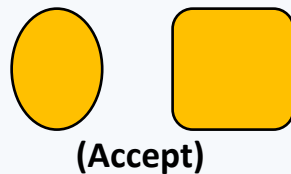


Example circuit diagram

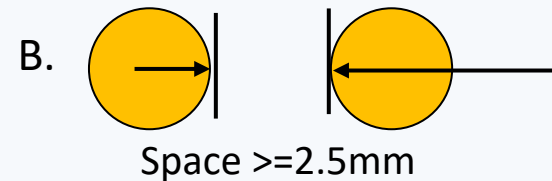
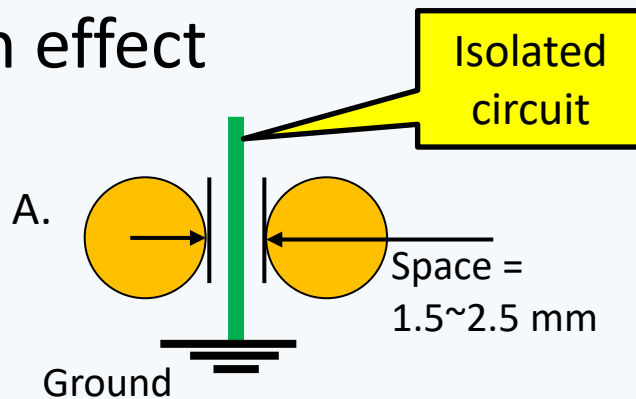


Design Guidelines

- Pad Shape : Round /Square will be best
- Size : 10~15mm/PAD will be good to fit finger



- Space between of two pad: as below to avoid side touch effect



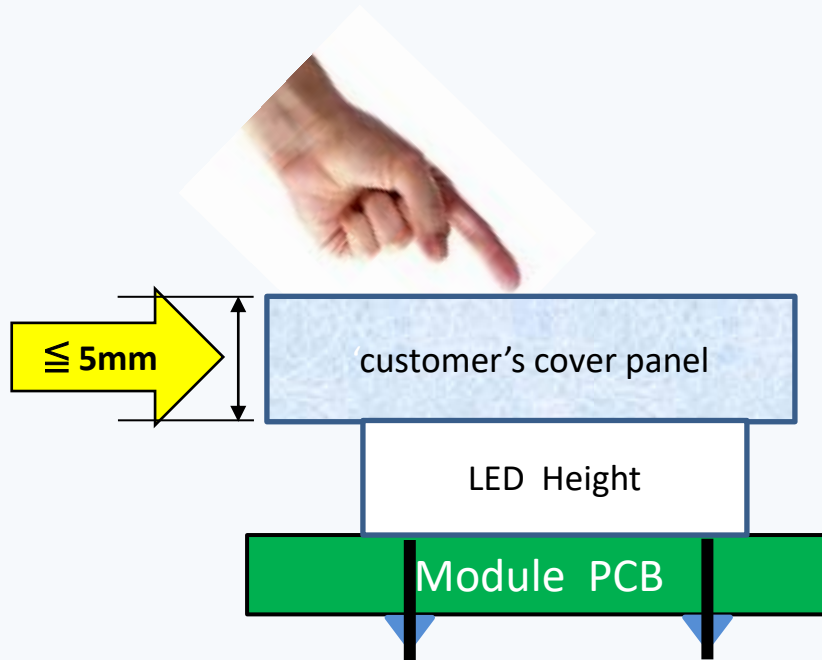
Design Guidelines

- SD(Sensor Distance): $\leq 5\text{mm}$

- SD : Distance of the touch point to sensor pad

A. Through Hole type LED Touch Switch:

Thickness of customer's cover panel must be $\leq 5\text{mm}$



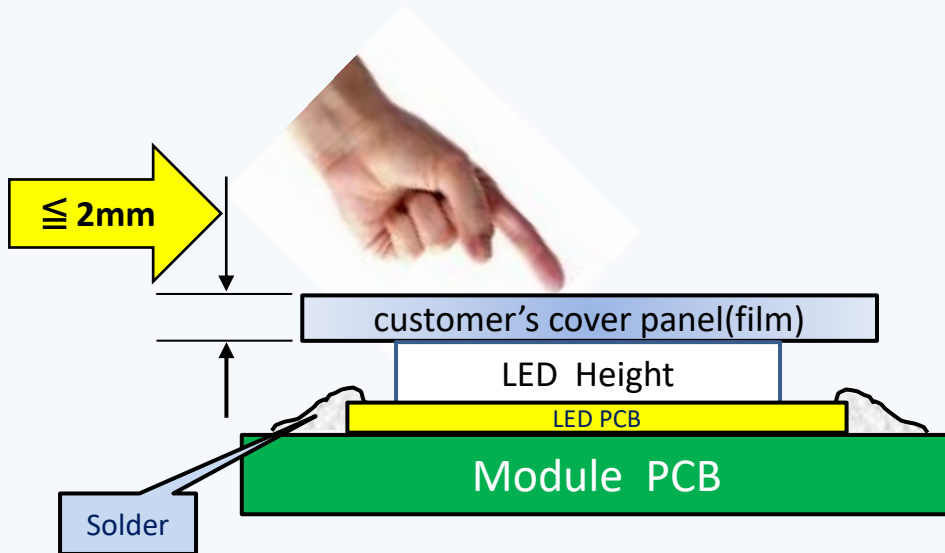
Design Guidelines

- SD(Sensor Distance): $\leq 5\text{mm}$









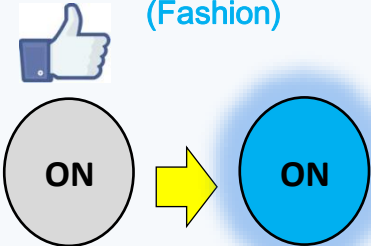
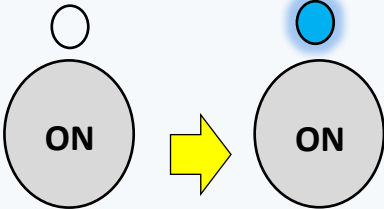
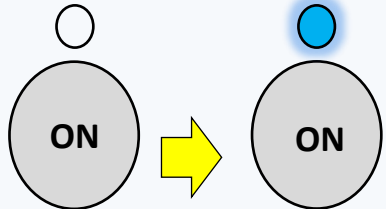
- SD : Distance of the touch point to sensor pad

B. Super Thin type LED Touch Switch: (Through Hole or SMD type)

The thickness of customer's cover panel (film) must $\leq 2\text{mm}$

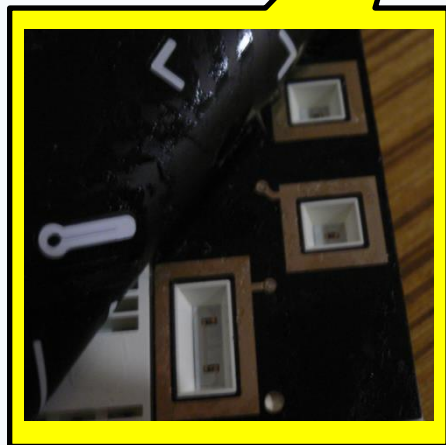
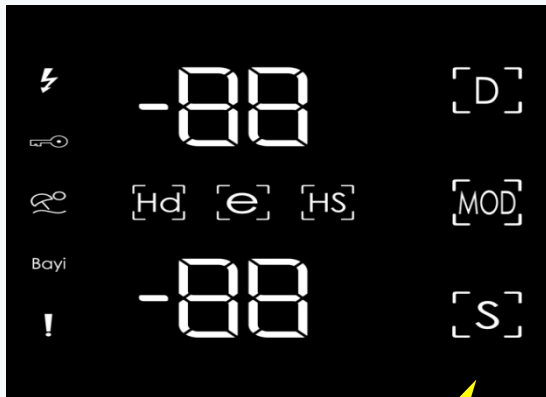


Compare --- Touch Led Switch vs Others Touch or Push Switch

Result			
Item	A. Touch Led Switch	B. Membrane Push Switch	C. Metal Touch Switch
Cost	 Low	High	High (With Spring, More cost)
Size (Space)	 Small	 Small	big (With Spring, More space)
Structure	 LED with IC Two in one (Simply)	Membrane +IC+ indicate LED (Triple parts)	Spring +IC+ indicate LED (Triple parts)
Principium	 Capacitance Induction	Pressure & Contact	 Capacitance Induction
Reliability	 Good	Normal (Damage on surface)	Good (Depend on surface m'tl)
Visual	<p>Push Button light up (Fashion)</p> 	<p>Button no light up (Normal)</p> 	<p>Button no light up (Normal)</p> 

Switch Model:

A. LED Touch Switch



B. Membrane Push Switch



C. Metal LED Touch Switch



Metal - Spring

Benefit of LED Touch Switch

- High sensitive from capacitive touch sensing technology
- Cost saving, no extra cost for any switch
- Robust, no mechanical moving parts
- Water and dust proof could realize by resin potting
- Graphic interactive control + color identification make interface more user friendly and intuitional
- Compact size and integrated function make design flexible

Possible Application -(Complexity Control Panel)

Home Apply (1)

Control panel will turn on after touch

(Smart Refrigerator)



Home Apply (2)

Coffee Machine



Drink Machine



Home Apply (3)



Package	Outer Dimensions (mm)	Color	Part Number	Dominant Wavelength λ_d (nm)	Chromaticity Coordinate (X,Y)	Luminous Intensity IV (mcd)		Forward Current IF (mA)
						Min.	Max.	
Touch Display Without Drive IC	15X15X11	Green	CSDV-120312-01	525	*	180	380	10
Touch Display Without Drive IC	15X15X11	Yellow	CSDV-12031T-01	590	*	25	60	10
Touch Display Without Drive IC	15X15X11	Yellow	CSDV-12031A-01	605	*	30	70	10
Touch Display Without Drive IC	15X15X11	Orange	CSDV-12031V-01	625	*	25	45	10
Touch Display Without Drive IC	15X15X11	Red	CSDV-12031L-01	630	*	15	30	10
Touch Display Without Drive IC	15X15X11	Red	CSDV-12031U-01	645	*	10	20	10
Touch Display Without Drive IC	15X15X11	Blue	CSOV-12031B-01	465	*	25	50	10
Touch Display Without Drive IC	15X15X11	White	CSOV-12031W-01	*	(0.27,0.25)	70	130	10
Touch Display With Drive IC	15X15X11	Green	CSDE-151522-01	525	*	110	210	10
Touch Display With Drive IC	15X15X11	Yellow	CSDE-15152T-01	590	*	15	40	10
Touch Display With Drive IC	15X15X11	Yellow	CSDE-15152A-01	605	*	25	50	10
Touch Display With Drive IC	15X15X11	Orange	CSDE-15152V-01	625	*	15	30	10
Touch Display With Drive IC	15X15X11	Red	CSDE-15152L-01	630	*	10	20	10
Touch Display With Drive IC	15X15X11	Red	CSDE-15152U-01	645	*	5	15	10
Touch Display With Drive IC	15X15X11	Blue	CSOE-15152B-01	465	*	15	30	10
Touch Display With Drive IC	15X15X11	White	CSOE-15152W-01	*	(0.27,0.25)	45	110	10
Surface Mount Touch Display Without Drive IC	19X15.2X3.2	Green	CSDV-S120532-01	525	*	290	650	20
Surface Mount Touch Display Without Drive IC	19X15.2X3.2	Yellow	CSDV-S12053T-01	590	*	70	135	20
Surface Mount Touch Display Without Drive IC	19X15.2X3.2	Yellow	CSDV-S12053A-01	605	*	70	155	20
Surface Mount Touch Display Without Drive IC	19X15.2X3.2	Orange	CSDV-S12053V-01	625	*	45	105	20
Surface Mount Touch Display Without Drive IC	19X15.2X3.2	Red	CSDV-S12053L-01	630	*	25	65	20
Surface Mount Touch Display Without Drive IC	19X15.2X3.2	Red	CSDV-S12053U-01	645	*	15	40	20
Surface Mount Touch Display Without Drive IC	19X15.2X3.2	Blue	CSOV-S12053B-01	465	*	70	130	20
Surface Mount Touch Display Without Drive IC	19X15.2X3.2	White	CSOV-S12053W-01	*	(0.27,0.25)	290	530	20
Surface Mount Touch Display With Drive IC	19X15.2X3.2	Green	CSDE-S120502-01	525	*	290	600	20
Surface Mount Touch Display With Drive IC	19X15.2X3.2	Yellow	CSDE-S12050T-01	590	*	70	120	20
Surface Mount Touch Display With Drive IC	19X15.2X3.2	Yellow	CSDE-S12050A-01	605	*	70	140	20
Surface Mount Touch Display With Drive IC	19X15.2X3.2	Orange	CSDE-S12050V-01	625	*	45	95	20
Surface Mount Touch Display With Drive IC	19X15.2X3.2	Red	CSDE-S12050L-01	630	*	30	60	20
Surface Mount Touch Display With Drive IC	19X15.2X3.2	Red	CSDE-S12050U-01	645	*	15	35	20
Surface Mount Touch Display With Drive IC	19X15.2X3.2	Blue	CSOE-S12050B-01	465	*	70	120	20
Surface Mount Touch Display With Drive IC	19X15.2X3.2	White	CSOE-S12050W-01	*	(0.27,0.25)	290	480	20



Für Fragen und Anfragen zu diesem oder anderen optoelektronischen Produkten erreichen Sie uns unter...

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Danke!