

## Keyflex Australia

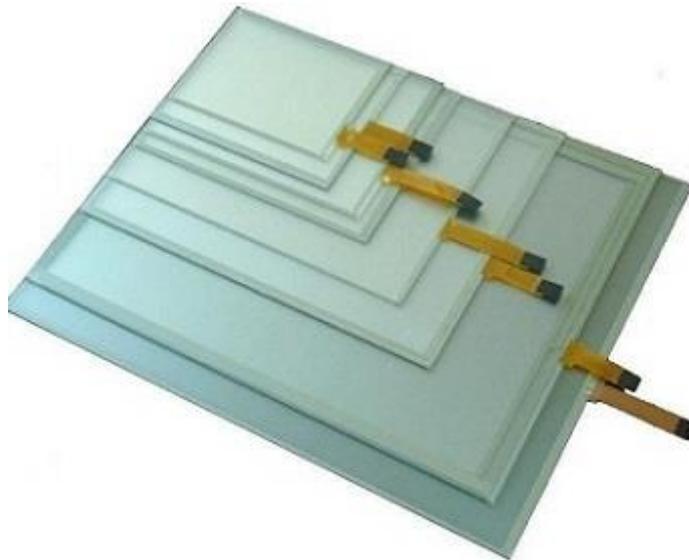
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## New Technical Update for 5 Wire Resistive Touchscreens

### 1. More sizes are available



Our in-house engineering and design team have developed a new design for 5 wire-resistive touchscreens that provide more available area and accuracy to satisfy customer needs. We can provide customized touchscreens from 3.5"-21" regardless of viewable area ratio 4:3 or 16:9 .

### 2. New Pattern Technology

Our newly developed edge pattern allows for improvement and enhancement different from what is currently available in the market :

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## Contact Resistive Value Are More Controllable



The above pattern edge is typical for the current market, however this can only achieve resistance within the range of 50 ohms. Smaller size touchscreens, the resistance will even be lower. Our design can provide for 50-200 ohm resistance which eliminates issues that occur with touch controllers.

More information is available upon request.

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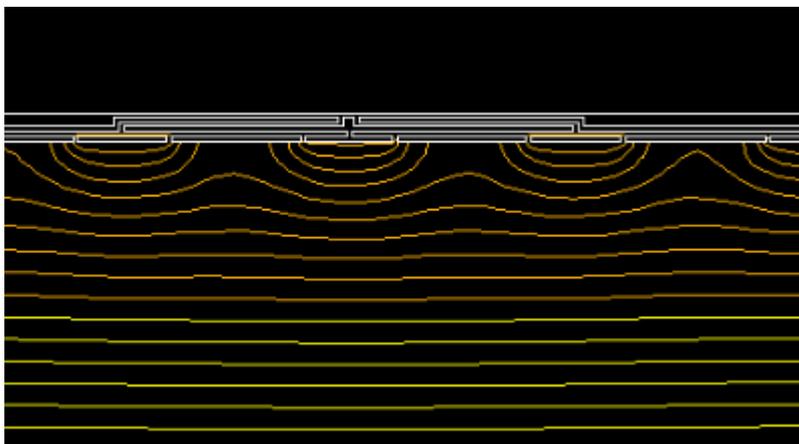
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PIEZO SWITCHES  
DECALS & LABELS  
FLEXIBLE CIRCUITS  
PLASTIC MOULDINGS  
MEMBRANE SWITCHES  
DISPLAY WINDOWS & FILTERS  
VANDAL RESISTANT KEYBOARDS

## Linearity at the edge is more accurate



Above is another pattern available in the market. Due to existence of contact point in between the edge and sensitive area, this design creates a wave near the edge, affecting the contact around the perimeter of touch screen, reducing the available useful touch area.

(photo below)



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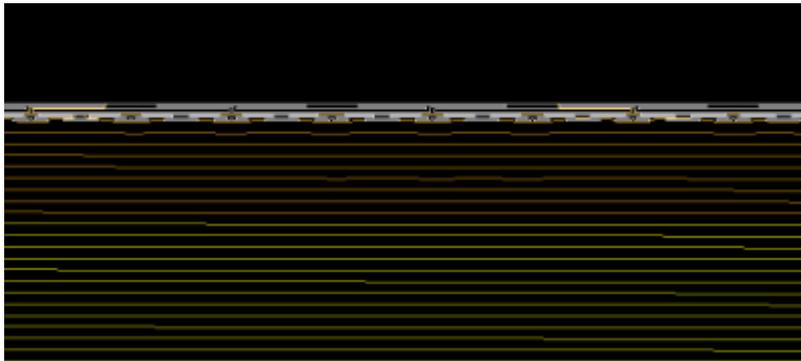
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Based on this common issue , our design eliminates the wave (per photo below )  
increasing the accuracy and useful touch screen area.



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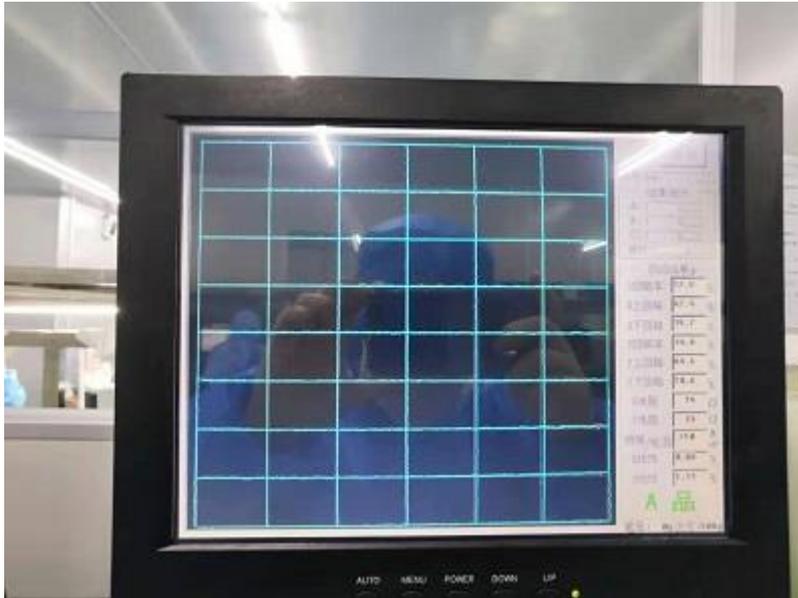
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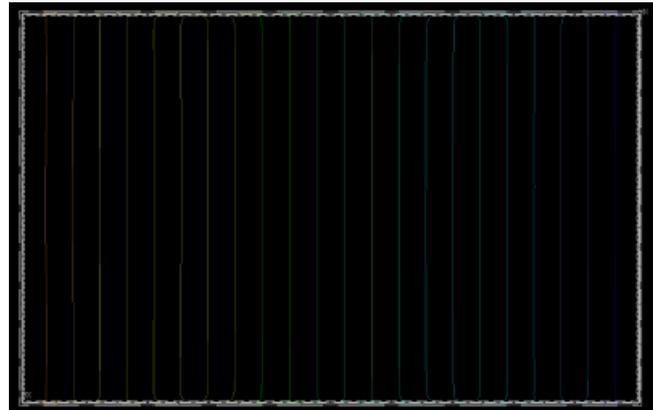
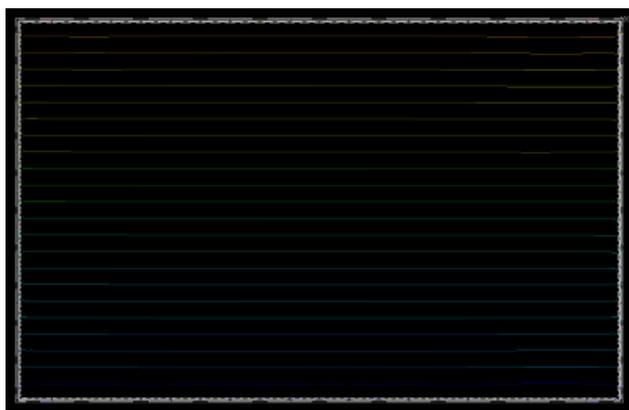
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## 3. Linearity is Accurate and Stable

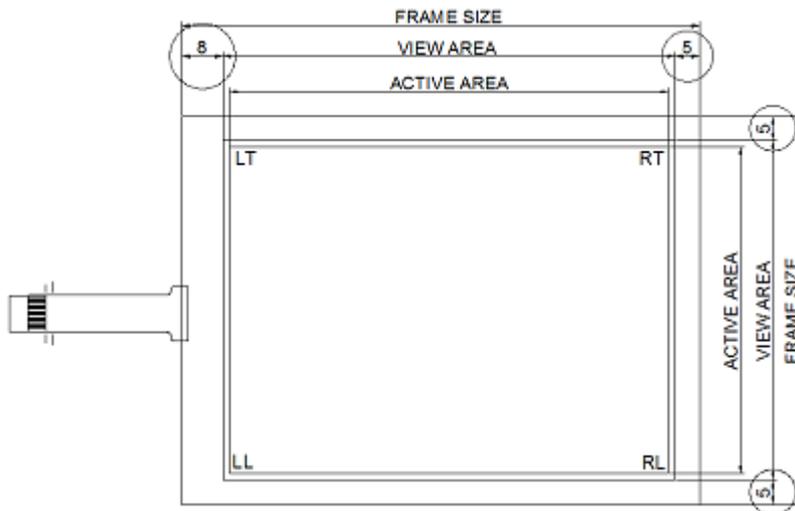


Our design for 5 wire resistive touchscreen controls the linearity within the range of not more than 1.5%. Moreover, it would not be affected by dust, water or electrical magnetic interference which is suitable for use in very harsh environment.



For each new project we will perform a one time x and y test to ensure best performance.

## 4. Super Thin Edge Design



Our unique edge design only occupies 5mm space on 3 x non-tail edges and 8mm on the edge with the tail. As a result the usable touch area is much larger. Less occupied space on the edge maybe possible with further evaluation of your requirements.

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## 5. Longer Life Time



Our 5-wire resistive touchscreen achieves 1M+ replicated writing test lifespan



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Actuation testing for our 5-wire resistive touchscreens has achieved 35M+ actuations.

Applications requiring long life and stable linearity are ideal for this technology.

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## 6. Multi reliability tests



Strict environmental testing passed based on the following conditions :

High Temperature/High Humidity : 60 °c & 90% for 240 hours .

High Temperature : 70 °c for 240 hours

Low Temperature : -20 °c for 240 hours

High/Low Temperature Cycle: -30-70 °c, One hour for each cycle.

Total 24 cycles.