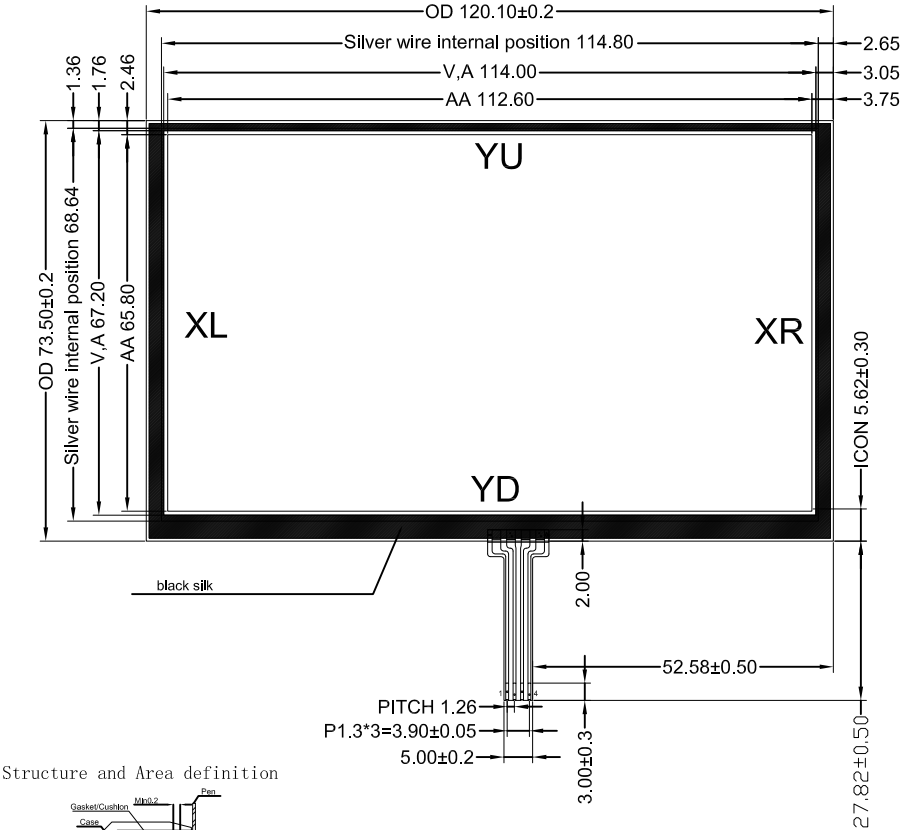
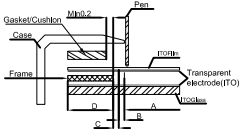


Customer Approved by:

REV	DESCRIPTION	DESIGN	DATE
A	1'ST DEGIN	JAVEN	2013.11.07
B			



Structure and Area definition



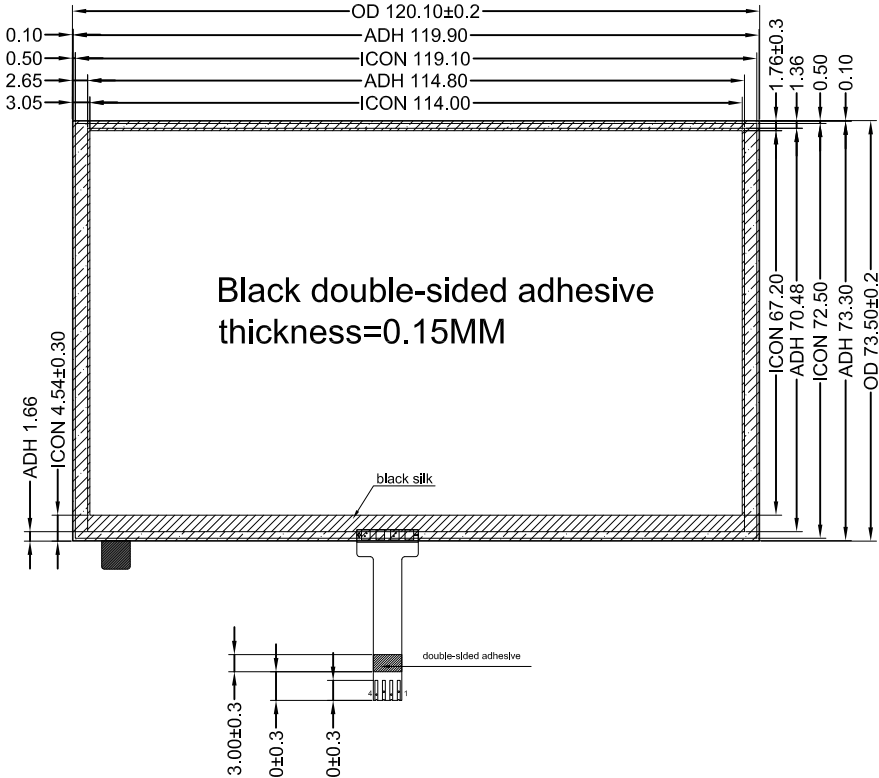
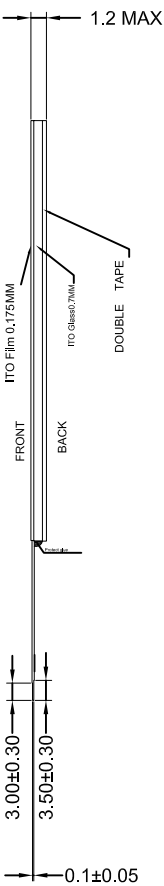
A:Active area  
The area which guarantees a touch panel operation with the following characteristics when passed.  
(1)Operation force, (2)Electric characteristics, (3)Tapping durability, (4)Pen sliding durability.

B:operation non-guaranteed area  
The area which does not guarantee a touch panel operation and its function when this area is pressed, touch panel shows degradation of its performance and durability such as a pen sliding durability becomes about one-tenth compared with the active area (Area-(a) as guaranteed area) and its operation force requires about double. About 0.5mm outside from a boundary of the active corresponds to this area.

C:Pressing prohibition area.  
The area which forbids pressing, because an excessive load is applied a transparent electrode and a serious damage is given to touch panel function by pressing.

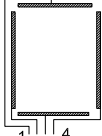
D:Non-Active area  
The area which does not activate even if passed.

- Notes:
- Type: film+glass+FPC  
Film: Matte screen (0.175mm)
  - Operating Voltage: 3V 5V
  - operation Temperature: -10℃ ~ 60℃ ≤90%RH  
Storage Temperature: -20℃ ~ 70℃ ≤90%RH
  - Life: 1,000,000 times
  - Response Time: ≤10ms
  - Linearity: ≤1.5%
  - Transmittance: ≥80%
  - Surface Hardness: 3H (Pencil)
  - operation force: ≤100g
  - Resistance:  
(ITO Film) x: 200Ω ~ 1000Ω  
(ITO Glass) y: 200Ω ~ 900Ω
  - Unspecified Tolerance: ±0.20
  - ROHS Standard




Black double-sided adhesive  
thickness=0.15MM

Pin NO:	Assignment
1	YU(Y-)
2	XL(X-)
3	YD(Y+)
4	XR(X+)



Circuit Diagram

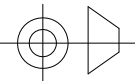


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# 深圳旭日东方科技有限公司

## EASTRISING TECHNOLOGY CO.,LTD

TEL:86-755-33503871 33503873 FAX:86-755-33507642-801

APPROVALS	DATE	MODEL NUMBER : ER-TP050-2		GENERAL TOL. UNITS MM	
APP				SCALE: N.T.S.	
CHK				SHEET:	1
		131107	DO NOT SCALE THIS DRAWING.	PROJECTION	