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SPECIFICATION

CUSTOMER : _____

MODULE NO.: TST0010R1A1241XXXX00

APPROVED BY: (FOR CUSTOMER USE ONLY)	**PCB VERSION:** **DATA:**

SALES BY	APPROVED BY	CHECKED BY	PREPARED BY
first FC components			

VERSION	DATE	REVISED PAGE NO.	SUMMARY
0	2016/10/08		First issue

General Specification

1.1. Mechanical characteristics:

Outside dimension：234.00±0.20 mm×139.90±0.20 mm

View area：225.52mm×128.08mm

Active area：224.52mm×127.08mm

Thickness： 1.60±0.15mm

Input method：Pen or Finger

Operating force： 20-100g 20～100g A.A area shrinked within 3mm

Shape of pen end: ø0.3 mm～ ø0.5mm

Hard surface : ≥3H [JIS K 5400]

Heat seal intensity: X>2.0kgf Y>500gf Z>200gf

Electrical Characteristics

Operating Voltage：DC5V

Loop resistance: X：450-1100Ω Y：100-500Ω

Linearity : ≤±1.5%

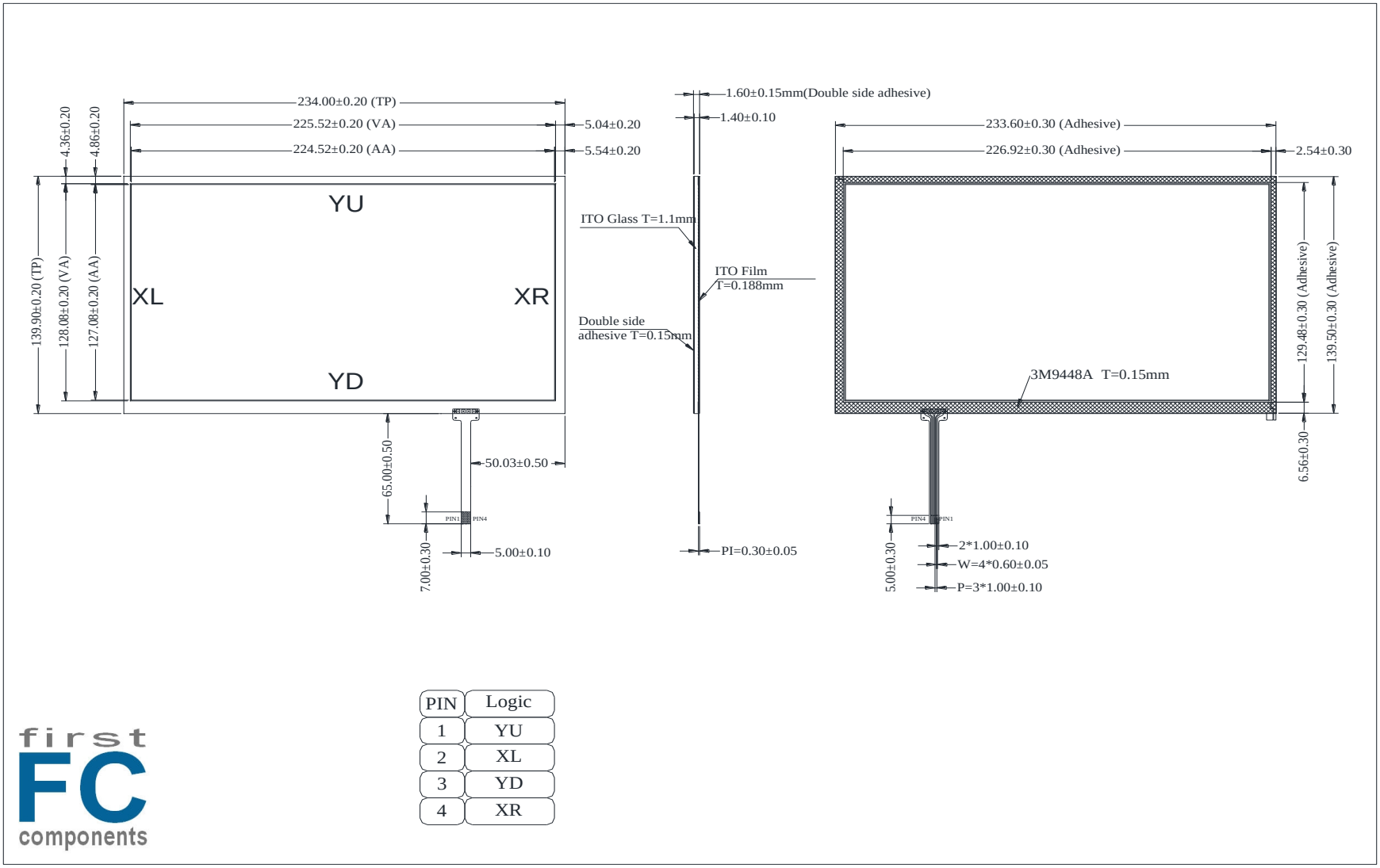
Insulation resistance: ＞20MΩ At DC 25V.

Insulation ability: ≥60sec. At DC 25V.

Chatting times: <10ms

C≦6n

Contour Drawing



PIN	Logic
1	YU
2	XL
3	YD
4	XR

4.Other

4.1. Optical Characteristics

Total Transmittance: ≥78%

4.2. Processing Environment

Operating Temperature: -20℃～+70℃
Operating Humidity: ≤90%RH
Storage Temperature: -30℃～+80℃
Storage Humidity: < 90%RH

4.3. Environmental test

1. High temperature： +70℃，96 hr.
2. Low temperature： -20℃，96 hr.
3. High temp./high humidity test: 70℃&90%, 96hr.
4. High Low temperature test: -20℃ 30min/+70℃ 30min, This is the test of 1

Cycle with 24hr.(30min in either temperature increase or decrease). Taken out from environmental measurement machine, and placed 24hr in room temperature before test.
The followings conditions are necessary：
▲Closed impedance： 450Ω< X Axis <1100Ω 100Ω< Y Axis <500Ω
▲Linearity error: X Axis：≤±1.5% Y Axis：≤±1.5 %
▲Insulation impedance：＞20MΩ @ DC 25V

5. Notes life ≥2×104words min

Shape of pen end: R0.8mm Materials of pen: Poly acetal resin written
Load: 150g Speed：60mm/s
sliding range:A.A area shrinked within 3mm
Underlined 100,000 times in a fixed position of TOUCH PANEL. If sliding back and force, it counts twice , The following conditions are necessary:
▲Closed impedance：450Ω< X Axis <1100Ω 100Ω< Y Axis <500Ω
▲Linearity error:X Axis：≤±1.5 % Y Axis：≤±1.5%
▲Insulation impedance：＞20MΩ @ DC 25V
5.6 Input life ≥1×10^6 times min
Shape of pen end: R8.0mm Materials of pen: SIR60°
Load: 150g Frequency: 2times/s
Click range:A.A area shrinked within 3mm
Pointed-making 1million times in a fixed position of TOUCH PANEL. The following conditions are necessary:
▲Closed impedance: ：450Ω< X Axis <1100Ω 100Ω< Y Axis <500Ω
▲Linearity error: X Axis：≤±1.5% Y Axis：≤±1.5 %
▲Insulation impedance： ＞20MΩ @ DC 25V