LCD / LCM SPECIFICATION

WINSTAR Display Co.,Ltd.

華凌光電股份有限公司

Winstar Display Co., LTD
華凌光電股份有限公司
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SPECIFICATION

CUSTOMER : _____

MODULE NO.: TST0007R0K1241XXXX00

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

SALES BY	APPROVED BY	CHECKED BY	PREPARED BY

VERSION	DATE	REVISED PAGE NO.	SUMMARY
A	2015/02/11		Modify Contour Drawing.

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MODLE NO：

RECORDS OF REVISION			DOC. FIRST ISSUE
VERSION	DATE	REVISED PAGE NO.	SUMMARY
0	2014/08/14		First issue
A	2015/02/11		Modify Contour Drawing.

Contents

1.General Specification

1.1. ITEM	STANDARD VALUE	UNIT
Outline dimension	165.0*99.0±0.3	mm
View area	156.6*89.1	mm
Active area	154.48*86.98	mm
Total thickness	1.5±0.1	mm

2.Electrical Characteristics

1、Driving condition: DC3～7V；

2、Loop resistance: X: 430~910Ω　　Y: 150~530Ω

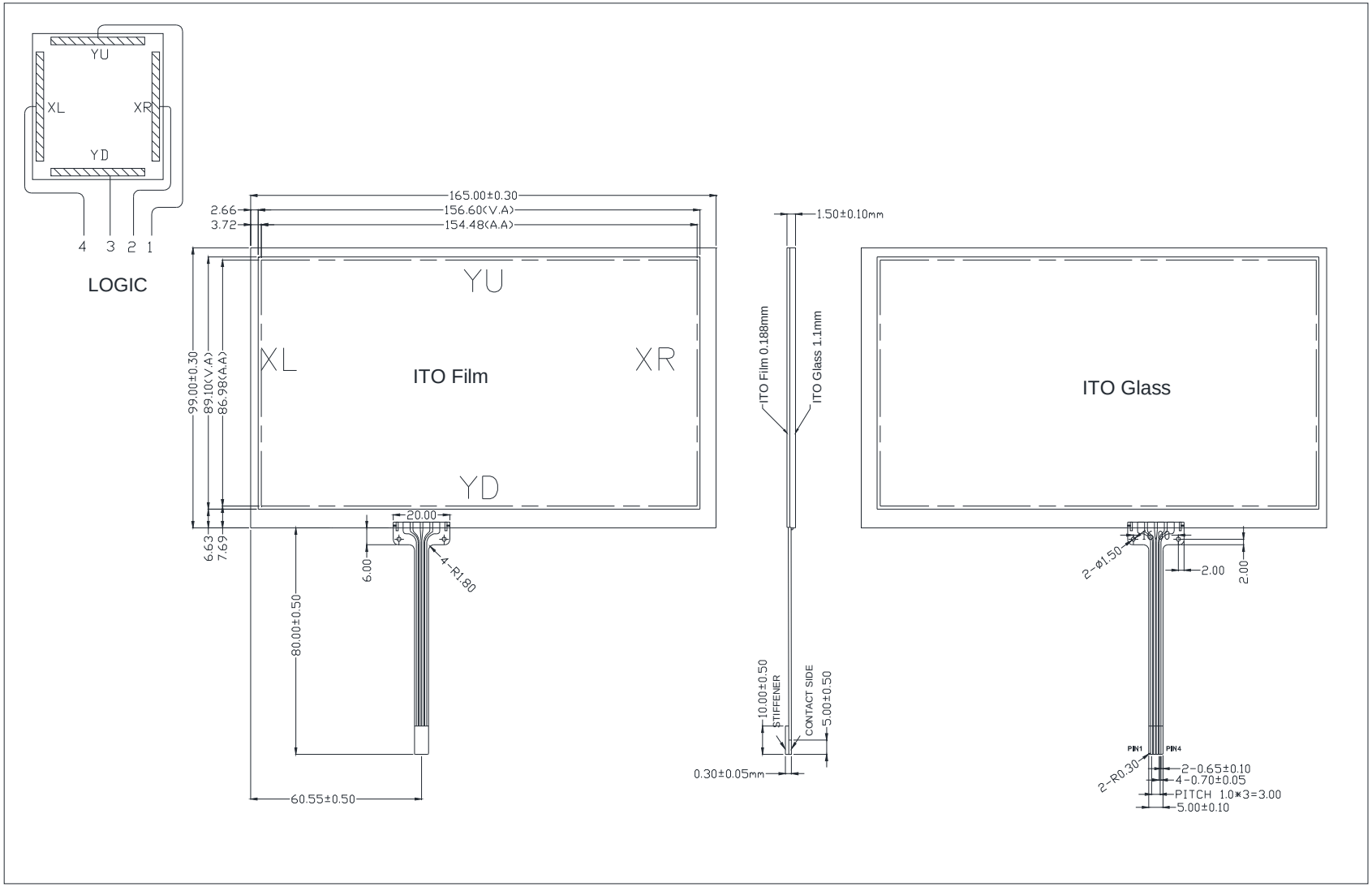
3、Linearity: ≤±1.5%

4、Insulation resistance:＞10MΩ，At DC 25V；

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

6、Chatting time：＜10ms

3.Contour Drawing



4.Other

4.1. Product type

Resistance type　　analogy type
Film/Glass type

Griteria of materials

Upper electrode

Base material：ITO FILM
Type：clear and anti-newton ring coating
Thickness：188±10um
Resistance：400±100Ω/sq

Lower electrode

Base material：ITO FILM（ITO strengthen glass）
Thickness：1.1±0.1mm
Resistance：400±100Ω/sq

Mechanical characteristics

Input method: Pen
Operating force: 30~80g　　A.A area shrinked within 3mm
Shape of pen end ： Ø0.3mm～ Ø0.5mm
Hardness of Surface：Hard Surface ≥3H　[JIS K5400]
Heat Seal intensity: X>2 kg f、Y＞500g f、Z＞150g f,

Optical characteristics

Total transmittance: ＞75% [JISK 7105]

Processing environment

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

Environmental test

High temperature: +70℃, 120hr.

Low temperature: -20℃, 120hr.

High temp./ high humidity test : 70℃&90%, 120hr.

High low temperature test : -30℃ 30min / +80℃ 30min, this is the test of 1 cycle with 24hr. (30min in either temperature increase). Taken out from environmental measurement machine, and placed 24hr in room temperature before test. The followings conditions are necessary:

▲Closed impedance
430Ω＜X Axis＜910Ω　　150Ω＜Y Axis＜530Ω
▲Linearity error
X Axis：≤±1.5%　　Y Axis：≤±1.5%
▲Insulation impedance
＞10MΩ@ DC 25V

Notes life ≥2×10^4 words 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
430Ω＜X Axis＜910Ω 150Ω＜Y Axis＜530Ω
▲Linearity error
X Axis：≤±1.5% Y Axis：≤±1.5%
▲Insulation impedance
＞10MΩ@ DC 25V

Notes life ≥2×10^6 times min
Shape of pen end: R0.8mm Materials of pen: SIR60°
Load : 150g Frequency : 60mm/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
430Ω＜X Axis＜910Ω 150Ω＜Y Axis＜530Ω
▲Linearity error
X Axis：≤±1.5% Y Axis：≤±1.5%
▲Insulation impedance
＞10MΩ@ DC 25V