



Winstar Display Co., LTD

華凌光電股份有限公司



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SPECIFICATION

CUSTOMER : _____

MODULE NO.: TSG320240B1141XXXX00

<p>APPROVED BY:</p> <p>(FOR CUSTOMER USE ONLY)</p>	<p>PCB VERSION: DATA:</p>
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SALES BY	APPROVED BY	CHECKED BY	PREPARED BY
<p>ISSUED</p> <p>DATE:</p>			



MODLE NO :

RECORDS OF REVISION

DOC. FIRST ISSUE

VERSION	DATE	REVISED PAGE NO.	SUMMARY
0	2006-9-28		First issue

1. General Specification

ITEM	STANDARD VALUE	UNIT
Outline dimension	140.0±0.2(L) x 104.0±0.2(W) x 1.5±0.1(T)	mm
View area	122.1(L) x 93.3(W)	mm
Active area	119.2(L) x 90.3(W)	mm

2. Absolute Maximum Ratings

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT
Operating Temperature	T _{OP}	-10	—	+60	°C
Storage Temperature	T _{ST}	-40	—	+80	°C
Operating temperature		20		90	%RH
Storage temperature		20		90	%RH
Light transmission			80		%
Notes Life		10 ⁵			Words
Input Life		10 ⁶			Times

3. Reliability

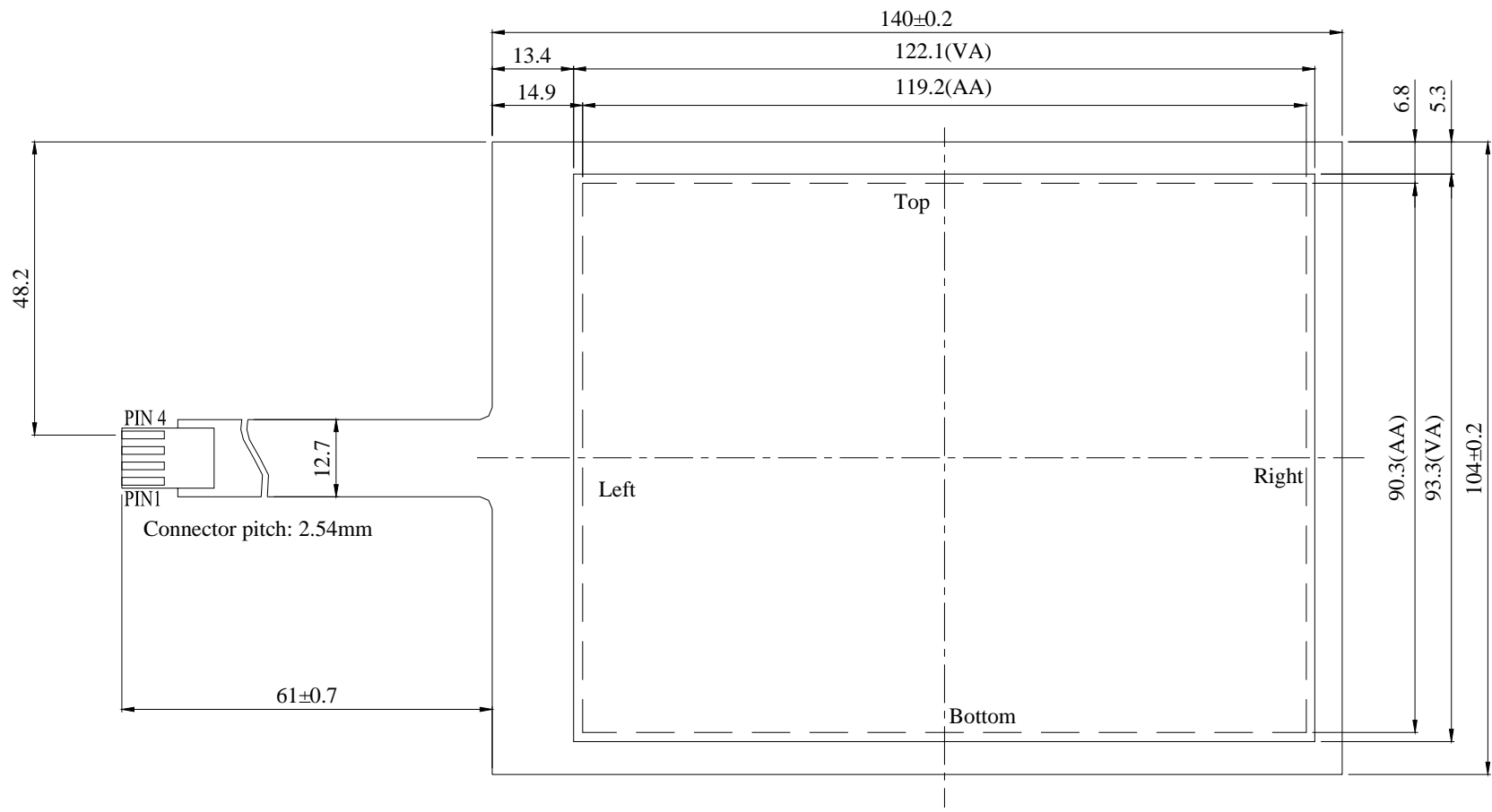
■ Content of Reliability Test

Environmental Test			
Test Item	Content of Test	Test Condition	Applicable Standard
High Temperature storage	Endurance test applying the high storage temperature and operating test .	60°C 120hrs	—
Low Temperature storage	Endurance test applying the high storage temperature for a long time.	-10°C 120hrs	—

***The test of above being finished, touch screen must satisfy the specification as below:

Resistance between leads :

- (1) Film : 570~920 Ohm , Glass: 220 ~ 330 Ohm
- (2) Linearity : Less than 1.5%
- (3) Insulation resistance: 10M Ohm or more.



The non-specified tolerance of dimension is ± 0.3 mm.

PIN NO.	Assignment
1	Right
2	Left
3	Bottom
4	Top

TOUCH PANEL PIN ASSIGNMENT

4. Material List of Components for RoHs

1. WINSTAR Display Co., Ltd hereby declares that all of or part of products (with the mark “#”in code), including, but not limited to, the LCM, accessories or packages, manufactured and/or delivered to your company (including your subsidiaries and affiliated company) directly or indirectly by our company (including our subsidiaries or affiliated companies) do not intentionally contain any of the substances listed in all applicable EU directives and regulations, including the following substances.

Exhibit A : The Harmful Material List

Material	(Cd)	(Pb)	(Hg)	(Cr6+)	PBBs	PBDEs
Limited Value	100 ppm	1000 ppm	1000 ppm	1000 ppm	1000 ppm	1000 ppm
Above limited value is set up according to RoHS.						

2.Process for RoHS requirement :

(1) Use the Sn/Ag/Cu soldering surface ; the surface of Pb-free solder is rougher than we used before.

(2) Heat-resistance temp. :

Reflow : 250°C,30 seconds Max. ;

Connector soldering wave or hand soldering : 320°C, 10 seconds max.

(3) Temp. curve of reflow, max. Temp. : 235±5°C ;

Recommended customer's soldering temp. of connector : 280°C, 3 seconds.



Panel Item Number : _____

1、Panel Specification :

1. Panel Type : Pass NG , _____
2. View Direction : Pass NG , _____
3. Numbers of Dots(Icon) : Pass NG , _____
4. Operating Temperature : Pass NG , _____
5. Storage Temperature : Pass NG , _____
6. Others : _____

2、Mechanical Specification :

1. Dots(Icon) Size : Pass NG , _____
2. VA Size : Pass NG , _____
3. AA Size : Pass NG , _____
4. Outline Dimension : Pass NG , _____
5. Others : Pass NG , _____

3、Summary :

Sales signature : _____

Customer Signature : _____

Date : / /