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SPECIFICATIONS FOR Field Induced Pad MODULE

CUSTOMER	STD
MODEL	JA-MA0215-AGN-B (7") VER 2
CUSTOMER APPROVED	

APPROVED BY	CHECKED BY	ORGANIZED BY
 <p>TP 產品部 2010/08/03 黃炳文</p>	 <p>TP 產品部 2010/08/03 葉大維</p>	 <p>TP 產品部 2010/7/29 林晏生</p>

APPROVAL FOR SPECIFICATIONS ONLY

APPROVAL FOR SPECIFICATIONS AND SAMPLE (10050373)

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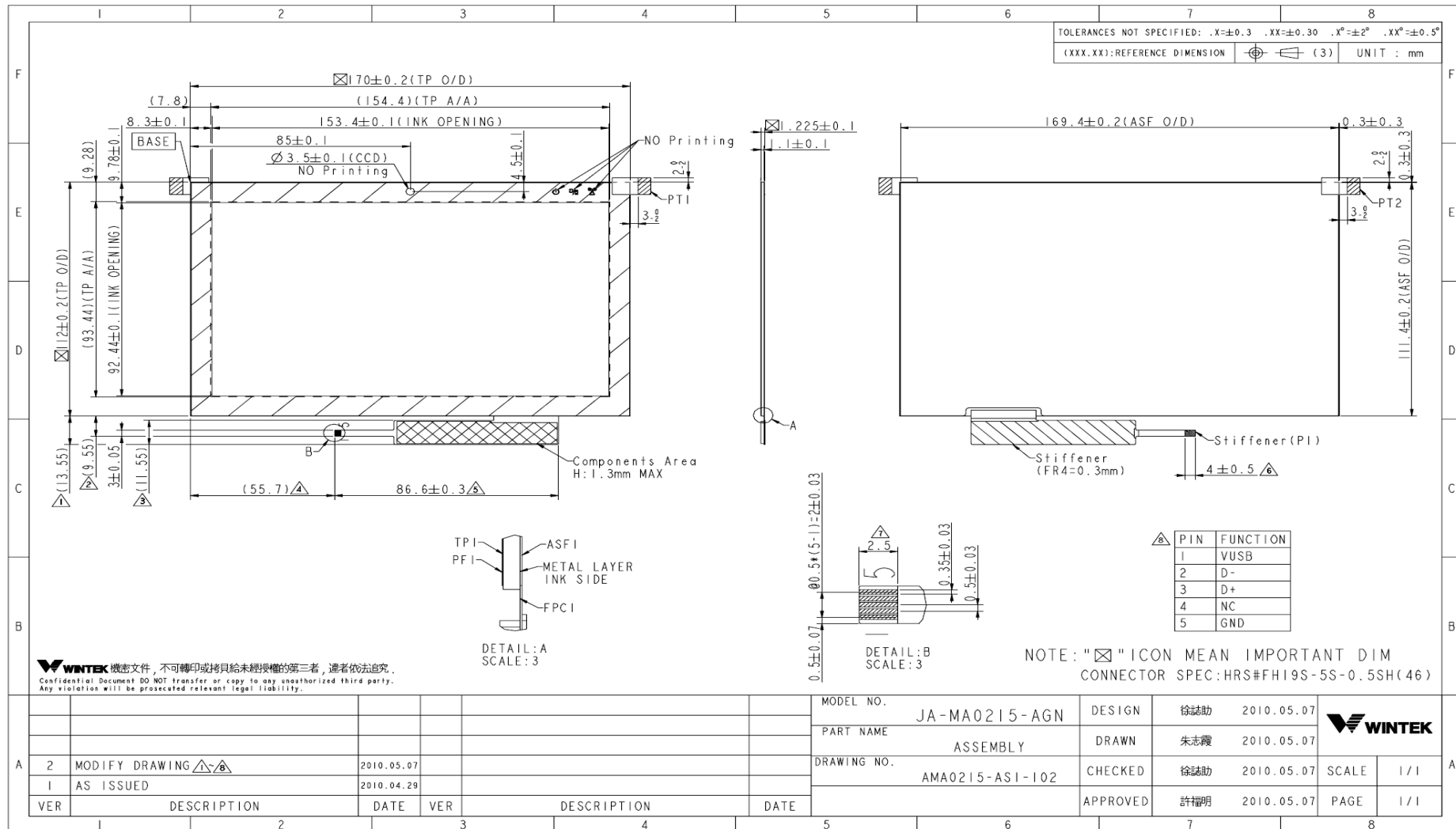
History of Version

Version	Contents	Date	Note
B1	Factory transferring	2010.05.26	SPEC
B2	Add electrical performance	2010.07.29	Sample

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(1) Outline and Dimension

1.1 Assembly Drawing



(2) Features

ITEM	Specification
Total Thickness	1.225 mm
Total Weight	58.15 g
Work Dimension	7 inch
Storage Temperature	-30 ~ 80
Operation Temperature	-20 ~ 70

(3) Module Specification

3.1 Mechanical Unit

Item	Dimension		UNIT
Outline Dimension of main components	Window lens	170(W) X 112(L) X 1.225(T)	mm
Key Dimension	Sensor A/A	154.4(W) X 93.44 (L)	mm

3.2 Module Characteristic

ITEM	STANDARD VALUE	NOTE
Touch Panel Resolution	2048X2048	-
Interface	USB	-
Report Rate	100Hz	-
Input	Real 2Points	-

(4) Sensor Specification

ITEM	Max	Unit	Tolerance
Row Trace resistance	10K	Ohm	20%
Column Trace resistance	10K	Ohm	20%

(5) Optical Units

ITEM	STANDARD VALUE	UNIT
TRANSPARENCY	Min 85 (BYK Haze-grad plus)	%
Haze	Max 2.0 (BYK Haze-grad plus)	%

(6) Electronic Units

6.1 Absolute Maximum Ratings

ITEM	SYMBOL	MIN	TYP	MAX	UNIT	NOTE
Operating Temperature	T _{OP}	-20	-	70		-
Storage Temperature	T _{ST}	-30	-	80		-
input voltage range	V _{DD}	-0.3		5.5	V	V _{DD} to V _{ss}
ESD (HBM test)		2K			V	
Static Electricity	Be sure that you are grounded when handing TP					

Note1: If the module exceeds the absolute maximum ratings, it may be damaged permanently. Also, if the module operated with the absolute maximum ratings for a long time, its reliability may drop.

6.2 Electrical Characteristics

(T_a=25 , V_{DD}=5V)

ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT	Remark
Input power voltage	V _{DD_TP}	-	4.8	5	5.2	V	-
Supply Current	*I _{DD}	V _{DD_TP} =5V	-	-	63	mA	-

6.3 Interface Pin Function

NO.	SYMBOL	I/O	FUNCTION
1	VUSB	P	USB Power supply
2	USB_D-	I/O	USB data -
3	USB_D+	I/O	USB data +
4	NC	-	Dummy
5	GND	P	Ground

PS: System Requirements:

Windows-base PC

Windows 7

(7) Reliability test

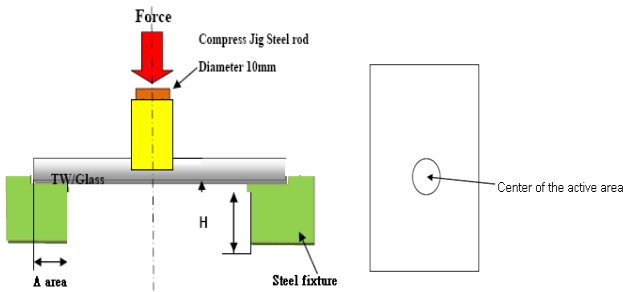
7.1 Environment Test

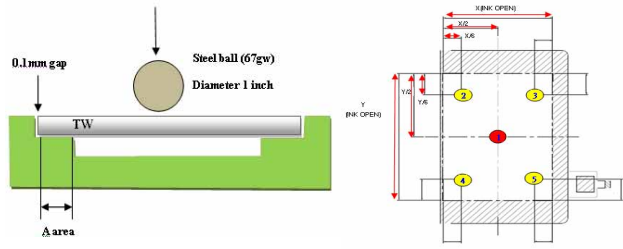

No	Item	Description
01	High temperature operation	The sample should be allowed to stand at 70 °C for 240 (-0, +48) hours under driving condition.
02	Low temperature operation	The sample should be allowed to stand at -20 °C for 240 (-0, +48) hours under driving condition.
03	High temperature resistance	The sample should be allowed to stand at 80 °C for 240 (-0,+48) hours under no-load condition, and then returning it to normal temperature condition, and allowing it stand for 30 minutes.
04	Low temperature resistance	The sample should be allowed to stand at -30 °C for 240 (-0,+48) hours under no-load condition, then returning it to normal temperature condition, and allowing it stand for 24 hours.
05	Moisture resistance	The sample should be allowed to stand at 60 °C, 90 % RH MAX for 240 (-0,+48) hours under no-load condition excluding the polarizer, then taking it out and drying it at normal temperature.
06	Thermal shock resistance	The sample should be allowed to stand the following 10 cycles of operation: -40°C for 30 minutes → normal temperature for 5 minutes → +80°C for 30 minutes → normal temperature for 5 minutes , as one cycle.

7.2 Durability Test

Item		conditions	Pass / Fail Criteria
FPC Reliability	Direction of peeling off	90°	Pass Criteria: Over Min 500gf/cm
	Speed	50mm/min	

7.3 Mechanical test

Item		conditions	Pass / Fail Criteria
Static Press Test	Rod diameter	10mm	Pass Criteria: Min 20kg Center of panel (press until broken)
	Speed	5mm/min	
	Test Jig A area	not allow over the length of panel active/area	
			

Ball Drop Test	Steel ball weight	67g	Pass Criteria: Min 60cm
	Method	each cycle drop 5points, each point drop 1 time only	
	Test Jig A area	not allow over the length of panel active/area	
			
Hardness	Test weight	750g	Pass Criteria: 6H (Glass) Condition: Inspect under luminance light. Criterion: any scratch on surface after sliding will judge NG
			

(8) Inspection Specification

8.1 Specification of Quality Assurance

8.1.1 Purpose

This standard for Quality Assurance should affirm the quality of Touch Panel module products to supply to purchaser by WINTEK CORPORATION (Supplier).

8.1.2 Standard for Quality Test

a. Inspection:

Before delivering, the supplier should take the following tests, and affirm the quality of product.

b. Electro- Optical Characteristics:

According to the individual specification to test the product.

c. Test of Appearance Characteristics:

According to the individual specification to test the product.

d. Test of Reliability Characteristics:

According to the definition of reliability on the specification for testing products.

e. Delivery Test:

Before delivering, the supplier should take the delivery test.

(i) Test method: According to **ANSI/ASQC Z1.4-2003.General Inspection Level II take a single time.**

(ii) The defects classify of AQL as following:

Major defect: AQL=0.65

Minor defect: AQL=2.5

Total defects: **AQL=2.5**

AQL=2.5

8.1.3 Nonconforming Analysis & Deal With Manners

a. Nonconforming analysis:

(i) Purchaser should supply the detail data of non -conforming sample and the non - suitable state.

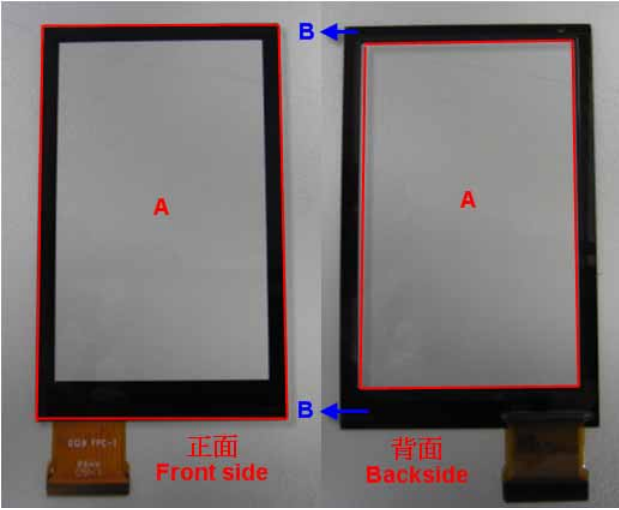
(ii) After accepting the detail data from purchaser, the analysis of nonconforming should be finished in two weeks.

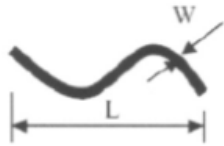
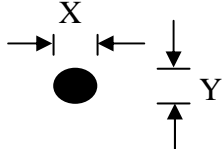
(iii) If supplier can not finish analysis on time, must announce purchaser before two weeks.

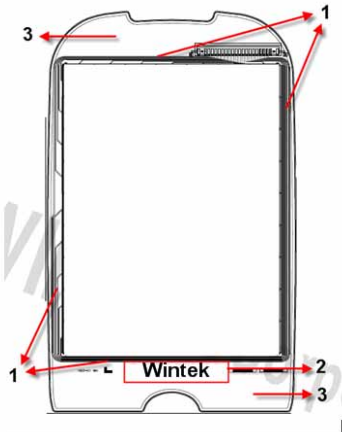
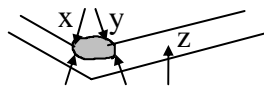
b. Disposition of nonconforming:

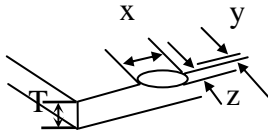
(i) If find any product defect of supplier during assembly time, supplier must change the good product for every defect after recognition.


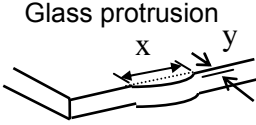
(ii) Both supplier and customer should analyze the reason and discuss the disposition of nonconforming when the reason of nonconforming is not sure.

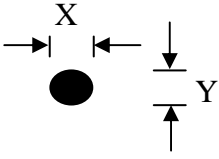
	Item	Acceptance/Reject level	Inspection equipment
Cosmetic Inspection Item	Area classify	<p>1. Area A: The whole front side and view area of back side, it belong to control area</p> <p>2. Area B: Back side black mask area, not control area</p> 	Naked eye, Cosmetic template
	Defect Types	<p>Linear defects(Scratch, Fiber), dot defect(White dot, Black dot , Particle, Bubble), dirty on the surface, pin hole, light leakage (missing print on Perimeter), BM scratch</p>	
	Sample Types	<p>There are 3 Chapters in this document. If sample is designed with BM and grinding process (CNC routing), please refer to Chapter 1 to inspect, otherwise refer to Chapter 2 (Without BM or without grinding process(CNC routing)).</p> <p>Chapter 3 and 4 are applicable for all types of sample.</p>	

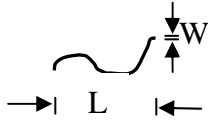
<p>Definition of Counting Defect</p>	<p>Defects count method、number and distance between defects</p>	<p>A. Linear defects scale by the length / width, dot defects scale by diameter</p>  <p>B. Dot measurement as below diagram. $\psi = (x + y) / 2$</p> 
<p>Inspection Environment</p>	<p>Inspection Environment</p>	<p>A. The luminance in appearance detecting should be between 1000LUX~1300LUX</p> <p>B. The detecting distance should be 30cm +/-5cm.</p> <p>C. No other objects and raised appearance on the surface.</p> <p>D. Be inspected under general daylight lamp.</p> <p>E. Inspection view-angle: 45 degree of all around view-angle(except the light leakage on side)</p> <p>F. Be inspected with black/white board at back of the product.</p>

<p>1.With BM, CNC routing</p>	<p>1-1 Pin hole, Light Leakage, Ink dirt and printing failure</p>	<p>Please inspect front side/back side of sample as a standard.</p> <p>1-1-1. Border area allow $\psi < 0.2\text{mm}$, quantity of light leakage: ignored (It could be passed if it's under spec by spreading with pen of same color) Use while plate at back side to inspect.</p> <p>1-1-2. Light leakage not allowed around logo area. (It could be passed if it's under spec by spreading with pen of same color) Use while plate at back side to inspect.</p> <p>1-1-3. The size and quantity of light leakage will be ignored apart from trace zone and logo area as inspected nothing by black plate at the back side</p> <p>1-1-4. Light leakage at edge could be ignored if it is in the area that outside from glass edge toward inner 0.25mm.</p> 	<p>2.5</p>						
	<p>1-2 Sensor /Breakage on corner</p>	<p>Corner chip :</p> <table border="1"> <thead> <tr> <th>z : Chip depth</th> <th>y : Chip width</th> <th>x : Chip length</th> </tr> </thead> <tbody> <tr> <td>1/2T</td> <td>y 0.3mm</td> <td>x 0.3mm</td> </tr> </tbody> </table>  <p>◎ Chip length may not affect Touch Pane product assembly</p> <p>Note : May not damage bonding area or ITO circuits (including traces and alignment mark, not including resistance test mark).</p>	z : Chip depth	y : Chip width	x : Chip length	1/2T	y 0.3mm	x 0.3mm	<p>2.5</p>
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1/2T	y 0.3mm	x 0.3mm							

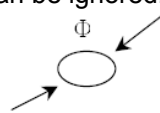
1-3 Sensor /Breakage on edge	Regular chips : Glass side				2.5
	Z : Chip depth	Y : Chip width	X : Chip length	Acceptable Qty	
	Z 1/2T	Y 0.1mm	X 0.1mm	Ignore	
	Z 1/2T	0.1mm<Y 0.2mm	0.1mm<X 0.2mm	N 2	
	1/2T<Z	0.2mm<Y	0.2mm<X	Not allow	
	BM side				
	Z : Chip depth	Y : Chip width	X : Chip length	Acceptable Qty	
	Z 1/2T	Y 0.1mm	X 0.1mm	Ignore	
	Z 1/2T	0.1mm< Y 0.2mm	0.1mm<X 0.2mm	N 5	
	1/2T<Z	0.2mm< Y	0.2mm< X	Not allow	
					
<p>Note: Regular chips as above could not damage the metal trace.</p>					

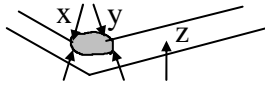
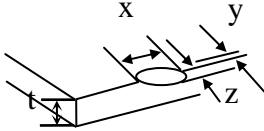
<p>1.With BM, CNC routing</p>	<p>1-4 Glass crack, Glass protrusion</p>	<p>Glass crack :</p>  <p>⊙ No glass cracks of any kind allowed (including creeping cracks).</p> <p>Glass protrusion</p>  <table border="1"> <tr> <td>y : width</td> <td>x : length</td> </tr> <tr> <td>y 0.25mm</td> <td>x 2mm</td> </tr> </table> <p>Note: Glass protrusion may not over out dimension.</p>	y : width	x : length	y 0.25mm	x 2mm	<p>0.65</p>
y : width	x : length						
y 0.25mm	x 2mm						
	<p>1-5 Electrical testing</p>	<p>1-5-1. No short circuits allowed.。 1-5-2. Reject if no operation during electrical testing.。</p>	<p>0.65</p>				


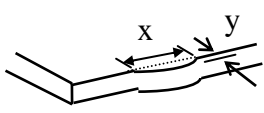
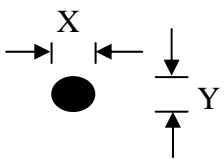
1.With BM, CNC routing	1-6 Black spot, white spot, internal contamination, pinhole contamination (internal contamination), exposed segments, black/white lines (clearly visible spot including lit up and non-lit up)	1-6-1. Round shape : (see Figure below) $\psi = (x + y) / 2$ 	2.5															
		Sample < 3" Size inspection criteria																
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1.With BM, CNC routing	1-6 Black spot, white spot, internal contamination, pinhole contamination (internal contamination), exposed segments, black/white lines (clearly visible spot including lit up and non-lit up)	8" Sample < 16" Size inspection criteria			2.5
		Size	Acceptable Q'TY	Minimum separated distance	
		ψ 0.1	Ignore	Distance 1mm over	
		$0.10 < \psi$ 0.25	Ignore	Distance 5mm over	
		$0.25 < \psi$ 0.5	7	Distance 5mm over	
		$\psi > 0.5$	0	--	
		1-6-2. Linear shape : (see Fig below)			
					
		Sample < 3" Size inspection criteria			
		Length (L)	Width (W)	Acceptable Q'TY	
Do not count	W 0.03	Ignore , distance 5mm over			
L 12.0	$0.03 < W$ 0.05	5 , distance 5mm over			
L 6.0	$0.05 < W$ 0.1	3 , distance 5mm over			
-	$0.1 < W$	0			

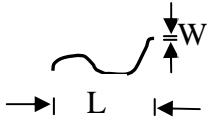
1.With BM, CNC routing	1-6 Black spot, white spot, internal contamination, pinhole contamination (internal contamination), exposed segments, black/white lines (clearly visible spot including lit up and non-lit up)	3" Sample < 5" Size inspection criteria			2.5	
		Length (L)	Width (W)	Acceptable Q'TY		
		Ignore	W 0.03	Ignore , distance 5mm over		
		L 12.0	0.03 < W 0.05	7 , distance 5mm over		
		L 6.0	0.05 < W 0.1	5 , distance 5mm over		
		-	0.1 < W	0		
		5" Sample < 8" Size inspection criteria				
		Length (L)	Width (W)	Acceptable Q'TY		
		Ignore	W 0.03	Ignore , distance 5mm over		
		L 12.0	0.03 < W 0.05	9 , distance 5mm over		
		L 6.0	0.05 < W 0.1	7 , distance 5mm over		
		-	0.1 < W	0		
		8" Sample < 16" Size inspection criteria				
		Length (L)	Width (W)	Acceptable Q'TY		
		不計 Ignore	W 0.03	Ignore , distance 5mm over		
		L 12.0	0.03 < W 0.05	11 , distance 5mm over		
		L 6.0	0.05 < W 0.1	9 , distance 5mm over		
		-	0.1 < W	0		

1.With BM, CNC routing	1-7 Other additional parts	1-7-1. PCB/FPC, please follow the inspection criteria LM-I-0018 1-7-2. SMT, please follow the inspection criteria LM-S-8009 1-7-3. For connector, please follow inspection criteria LM-S-8009	2.5									
	1-8 Lamination	It's defected (NOT allowed) that touch panel (sensor) separated with other parts.	0.65									
	1-9 Bubble	<p>This spec is for lamination bubble between sensor and ASF or AG film, the bubble between sensor and PF can be ignored.</p>  <table border="1"> <thead> <tr> <th>Dimension φ (mm)</th> <th>Acceptable</th> </tr> </thead> <tbody> <tr> <td>ψ 0.1</td> <td>Ignored (distance 5mm over)</td> </tr> <tr> <td>$0.1 < \psi$ 0.3</td> <td>n 5 (distance 5mm over)</td> </tr> <tr> <td>$0.3 < \psi$ 0.4</td> <td>n 4 (distance 5mm over)</td> </tr> <tr> <td>$\psi > 0.4$</td> <td>NG</td> </tr> </tbody> </table>	Dimension φ (mm)	Acceptable	ψ 0.1	Ignored (distance 5mm over)	$0.1 < \psi$ 0.3	n 5 (distance 5mm over)	$0.3 < \psi$ 0.4	n 4 (distance 5mm over)	$\psi > 0.4$	NG
Dimension φ (mm)	Acceptable											
ψ 0.1	Ignored (distance 5mm over)											
$0.1 < \psi$ 0.3	n 5 (distance 5mm over)											
$0.3 < \psi$ 0.4	n 4 (distance 5mm over)											
$\psi > 0.4$	NG											

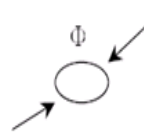
2. Without BM or without CNC routing	2-1 Sensor /Breakage on corner	<p style="text-align: center;">Corner chip</p>  <table border="1"> <tr> <td>z : Chip depth</td> <td>y : Chip width</td> <td>x : Chip length</td> </tr> <tr> <td>z T (Ignore)</td> <td>y 3mm</td> <td>x 3mm</td> </tr> </table> <p> © Chip length may not affect Touch Pane product assembly Note : May not damage bonding area or ITO circuits (including traces and alignment mark, not including resistance test mark). </p>	z : Chip depth	y : Chip width	x : Chip length	z T (Ignore)	y 3mm	x 3mm	2.5
z : Chip depth	y : Chip width	x : Chip length							
z T (Ignore)	y 3mm	x 3mm							
	2-2 Sensor /Breakage on edge	<p style="text-align: center;">Regular chips</p>  <table border="1"> <tr> <td>z : Chip depth</td> <td>y : Chip width</td> <td>x : Chip length</td> </tr> <tr> <td>Z T (Ignore)</td> <td>y 2mm</td> <td>x 3mm</td> </tr> </table> <p> Note: Regular chips as above could not damage the metal trace. © If there are two or more chips, x is the total length of each chip. </p>	z : Chip depth	y : Chip width	x : Chip length	Z T (Ignore)	y 2mm	x 3mm	2.5
z : Chip depth	y : Chip width	x : Chip length							
Z T (Ignore)	y 2mm	x 3mm							

	<p>2-3 Glass crack, Glass protrusion</p>	<p style="text-align: center;">Glass crack</p>  <p>⊙ No glass cracks of any kind allowed (including creeping cracks)</p> <p style="text-align: center;">Glass protrusion</p>  <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">y : width</td> <td style="text-align: center;">x : length</td> </tr> <tr> <td style="text-align: center;">y 0.25mm</td> <td style="text-align: center;">x 2mm</td> </tr> </table> <p>Note: Glass protrusion may not over out dimension.</p>	y : width	x : length	y 0.25mm	x 2mm	0.65											
y : width	x : length																	
y 0.25mm	x 2mm																	
	<p>2-4 Black spot, white spot, internal contamination, pinhole contamination (internal contamination)</p>	<p>2-4-1. Round shape : (see Fig below)</p> $\psi = (x + y) / 2$  <p style="text-align: center;">Sample < 3" Size inspection criteria</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Size</th> <th>Acceptable Q'TY</th> <th>Minimum separated distance</th> </tr> </thead> <tbody> <tr> <td>$\psi \leq 0.1$</td> <td>Ignore</td> <td>Distance 1mm over</td> </tr> <tr> <td>$0.10 < \psi \leq 0.25$</td> <td>Ignore</td> <td>Distance 5mm over</td> </tr> <tr> <td>$0.25 < \psi \leq 0.35$</td> <td>4</td> <td>Distance 5mm over</td> </tr> <tr> <td>$\psi > 0.35$</td> <td>0</td> <td>--</td> </tr> </tbody> </table>	Size	Acceptable Q'TY	Minimum separated distance	$\psi \leq 0.1$	Ignore	Distance 1mm over	$0.10 < \psi \leq 0.25$	Ignore	Distance 5mm over	$0.25 < \psi \leq 0.35$	4	Distance 5mm over	$\psi > 0.35$	0	--	2.5
Size	Acceptable Q'TY	Minimum separated distance																
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$\psi > 0.35$	0	--																

2. Without BM or without CNC routing	2-4 Black spot, white spot, internal contamination, pinhole contamination (internal contamination)	3" Sample < 5" Size inspection criteria			2.5
		Size	Acceptable Q'TY	Minimum separated distance	
		$\psi < 0.1$	Ignore	Distance 1mm over	
		$0.10 < \psi < 0.25$	Ignore	Distance 5mm over	
		$0.25 < \psi < 0.45$	5	Distance 5mm over	
		$\psi > 0.45$	0	--	
		5" Sample < 8" Size inspection criteria			
		Size	Acceptable Q'TY	Minimum separated distance	
		$\psi < 0.1$	Ignore	Distance 1mm over	
		$0.10 < \psi < 0.25$	Ignore	Distance 5mm over	
		$0.25 < \psi < 0.5$	6	Distance 5mm over	
		$\psi > 0.5$	0	--	
		8" Sample < 16" Size inspection criteria			
		Size	Acceptable Q'TY	Minimum separated distance	
		$\psi < 0.1$	Ignore	Distance 1mm over	
		$0.10 < \psi < 0.25$	Ignore	Distance 5mm over	
		$0.25 < \psi < 0.5$	7	Distance 5mm over	
		$\psi > 0.5$	0	--	

2. Without BM or without CNC routing	2-4 Black spot, white spot, internal contamination, pinhole contamination (internal contamination)	2-4-2. Linear shape : (see Fig below)  Sample < 3" Size inspection criteria	2.5																														
		<table border="1"> <thead> <tr> <th>Length (L)</th> <th>Width (W)</th> <th>Acceptable Q'TY</th> </tr> </thead> <tbody> <tr> <td>Ignore</td> <td>W 0.03</td> <td>Ignore , distance 5mm over</td> </tr> <tr> <td>L 12.0</td> <td>0.03 < W 0.05</td> <td>5 , distance 5mm over</td> </tr> <tr> <td>L 6.0</td> <td>0.05 < W 0.1</td> <td>3 , distance 5mm over</td> </tr> <tr> <td>-</td> <td>0.1 < W</td> <td>0</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="3">3" Sample < 5" Size inspection criteria</th> </tr> <tr> <th>Length (L)</th> <th>Width (W)</th> <th>Acceptable Q'TY</th> </tr> </thead> <tbody> <tr> <td>Ignore</td> <td>W 0.03</td> <td>Ignore , distance 5mm over</td> </tr> <tr> <td>L 12.0</td> <td>0.03 < W 0.05</td> <td>7 , distance 5mm over</td> </tr> <tr> <td>L 6.0</td> <td>0.05 < W 0.1</td> <td>5 , distance 5mm over</td> </tr> <tr> <td>-</td> <td>0.1 < W</td> <td>0</td> </tr> </tbody> </table>		Length (L)	Width (W)	Acceptable Q'TY	Ignore	W 0.03	Ignore , distance 5mm over	L 12.0	0.03 < W 0.05	5 , distance 5mm over	L 6.0	0.05 < W 0.1	3 , distance 5mm over	-	0.1 < W	0	3" Sample < 5" Size inspection criteria			Length (L)	Width (W)	Acceptable Q'TY	Ignore	W 0.03	Ignore , distance 5mm over	L 12.0	0.03 < W 0.05	7 , distance 5mm over	L 6.0	0.05 < W 0.1	5 , distance 5mm over
Length (L)	Width (W)	Acceptable Q'TY																															
Ignore	W 0.03	Ignore , distance 5mm over																															
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2. Without BM or without CNC routing	2-4 Black spot, white spot, internal contamination, pinhole contamination (internal contamination)	5" Sample < 8" Size inspection criteria			2.5
		Length (L)	Width (W)	Acceptable Q'TY	
		Ignore	W 0.03	Ignore , distance 5mm over	
		L 12.0	0.03 < W 0.05	9 , distance 5mm over	
		L 6.0	0.05 < W 0.1	7 , distance 5mm over	
		-	0.1 < W	0	
		8" Sample < 16" Size inspection criteria			
		Length (L)	Width (W)	Acceptable Q'TY	
		Ignore	W 0.03	Ignore , distance 5mm over	
		L 12.0	0.03 < W 0.05	11 , distance 5mm over	
L 6.0	0.05 < W 0.1	9 , distance 5mm over			
-	0.1 < W	0			
2-5 Electrical testing	2-5-1 No short circuits allowed. 2-5-2 Reject if no operation during electrical testing.			0.65	
2-6 Other additional parts	2-6-1. PCB/FPC, please follow the inspection criteria LM-I-0018 2-6-2. SMT, please follow the inspection criteria LM-S-8009 2-6-3. For connector, please follow inspection criteria LM-S-8009			2.5	

	<p>2-7 Lamination</p>	<p>It's defected (NOT allowed) that touch panel (sensor) separated with other parts.</p>	<p>0.65</p>										
<p>2. Without BM or without CNC routing</p>	<p>2-8 Bubble, pressure mark, dent, lump</p>	<p>This spec is for lamination bubble between sensor and ASF or AG film, the bubble between sensor and PF can be ignored.</p>  <table border="1"> <thead> <tr> <th>Dimension ϕ (mm)</th> <th>Acceptable</th> </tr> </thead> <tbody> <tr> <td>$\phi \leq 0.1$</td> <td>Ignored (distance 5mm over)</td> </tr> <tr> <td>$0.1 < \phi \leq 0.3$</td> <td>n = 5 (distance 5mm over)</td> </tr> <tr> <td>$0.3 < \phi \leq 0.4$</td> <td>n = 4 (distance 5mm over)</td> </tr> <tr> <td>$\phi > 0.4$</td> <td>NG</td> </tr> </tbody> </table>	Dimension ϕ (mm)	Acceptable	$\phi \leq 0.1$	Ignored (distance 5mm over)	$0.1 < \phi \leq 0.3$	n = 5 (distance 5mm over)	$0.3 < \phi \leq 0.4$	n = 4 (distance 5mm over)	$\phi > 0.4$	NG	<p>2.5</p>
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$\phi > 0.4$	NG												

(9) Packing method



Touch Panel 包裝規格書 Touch Panel Packaging Specifications		Package No		AMA0215-T1-01		
		Date	2010/5/7		VER	1
		Approve		Check		Contact
		林建谷		蔡鎮隆		徐福珍
1. 包裝材料規格表 (Packaging Material) : (per carton)						
Item	Model		Dimensions(mm)	Unit Weight(kg)	Quantity	
成品 (Product)	Touch Panel		170.0*112.0	0.05	96	
Tray 盤 (Tray)	H 237	PET	320*217*12*1.0	0.1	54	
包裝袋 (Package Bag)	C5		467*321*0.08	0.023	6	
內紙盒 (Product Box)	C01		320*219*70	0.131	6	
外紙箱 (Carton)	C62		475*345*250	0.857	1	
總重量 (Total Weight)	11.9 Kg ± 5%					
2. 包裝數量規格表 (Packaging Specifications and Quantity) :						
(1) Touch Panel quantity per tray : no. per row			2 x no. per column n1 = 2			
(2) Touch Panel quantity per box : quantity per tray			2 x no. of trays 8 = 16			
(3) Total Touch Panel quantity in carton : quantity per box			16 x no. of boxes 6 = 96			
<p>Use empty tray</p> <p>Put products into the tray</p> <p>Tray stacking</p> <p>Use package bag</p> <p>Wintek Tape</p> <p>The tape to seal carton</p> <p>QC inspection label</p> <p>Carton label</p> <p>Rotate tray 180 degrees and place on top of stack. Check the tray stack using Fig. B.</p> <p>Detail B: Tray 4, Tray 3, Tray 2, Tray 1</p>						
3 標籤規格表 (Label Specifications) :					特記事項 (Mark)	
(1) 品保檢驗標籤 (QC Inspection Label) <p>MODEL : (依照出貨申請單)</p> <p>LOT NO : (依照出貨申請單)</p> <p>QC CHECK :</p> <p>DATE :</p> <p>Qty : (依照出貨申請單)</p> <p>標籤顏色—綠色 Label Color----Green</p>						
(2) 外紙箱標籤 (Carton Label) <p>Wintek Part No : (依照內部申請單)</p> <p>Purchase Order No : (依照內部申請單)</p> <p>Qty : (依照數量規格表)</p> <p>標籤顏色—白色 Label Color----White</p>						

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