MODEL NO. : <u>G1549FH101GF-001</u> ISSUED DATE: <u>2016-02-02</u> VERSION : <u>A0</u>

Preliminary Specification Final Product Specification

Customer :_____

Approved by	Notes

GVO Confirmed :

Prepared by	Checked by	Approved by
黄素博	Max	魏朝刚

This technical specification is subjected to change without notice.



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Rev	Issue Date	Description	Editor
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			<i>v</i>



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1 General Specifications

	Feature	Spec	Remark
	Screen Size (inch)	5.49	
	Display Mode	AMOLED	
	Resolution(dot)	1080(W)×1920(H)	
	Active Area(mm)	68.31(W)×121.44 (H)	
Display Spec	Pixel Pitch (um)	63.25 (W)×63.25(H)	
	Technology Type	LTPS	
	Color Depth	16.7M	
	Interface	MIPI 4LANE	
	Surface Treatment	Hard Coating	
Mechanical	With TP/Without TP	With TP(on Cell)	
Characteristi cs	Module Outline Dimension(W x H x D) (mm)	70.41(W)x128.29(H)x0.77(D)	
63	Weight (g)	TBD	
Electronic	Driver IC(Type)	RM67195	
Electronic	Touch IC(Type)	GT1151	

Note 1: Requirements on Environmental Protection: RoHS.



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2.1 Main FPC Pin Assignment

FPC connector: AXE340124, B-TO-B Connector.

Main board recommended connector: AXE440124 B-TO-B Connector.

No	Symbol	I/O	Description
1	VPP	Р	Power supply for MTP Programming or Erase. If
Ľ	VFF	Г	it is not used please open it.
2	D3N	Ι	MIPI data lane
3	NC		NC
4	D3P	Ι	MIPI data lane
5	ELON2	0	DC/DC Power IC S-Wire CTRL Pin
6	GND	GND	Ground
7	VDDP_EN	0	DC/DC Power Enable Pin
8	D0N	I/O	MIPI data lane
9	NC		NC
10	D0P	I/O	MIPI data lane
11	TE	Ι	Sync Signal for preventing Tearing Effect
12	GND	GND	Ground
13	NC		Not use please Open it.
14	CKN	I	MIPI clock lane
15	RESX	Ι	Display reset. Active low.
16	СКР	Ι	MIPI clock lane
17	VDDIO	Р	Power supply for TP logic circuits
18	GND	GND	Ground
19	TSP_1.8V	Р	Power supply for display logic circuits
20	D1N	Ι	MIPI data lane
21	VLIN_6.5V	Р	External Power Input for AVDD
22	D1P	Ι	MIPI data lane
23	VCI	Р	Power supply for display analog circuits
24	GND	GND	Ground
25	TSP_SDA	I/O	SDA pin for TP



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26	D2N	Ι	MIPI data lane		
27	TSP_SCL	Ι	SCL pin for TP		
28	D2P	Ι	MIPI data lane		
29	TSP_ATTN	Ι	INT pin for TP		
30	GND	GND	Ground		
31	TSP_ 2.8V	Р	Analog Power for TP		
32	TSP_RESET	Ι	Reset Pin for TP, Active low.		
33	NC		NC		
34	NC		NC		
35	ELVDD	Р	Positive power supply for EL		
36	ELVSS	Р	Negative power supply for EL		
37	ELVDD	Р	Positive power supply for EL		
38	ELVSS	Р	Negative power supply for EL		
39	ELVDD	Р	Positive power supply for EL		
40	ELVSS	Р	Negative power supply for EL		

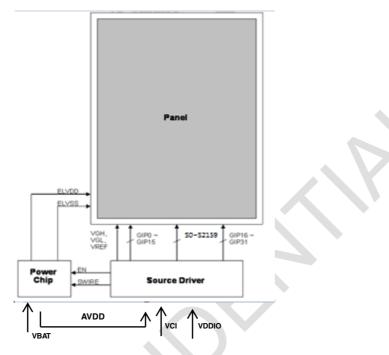
Note: I=Input; O=Output; P=Power; I/O=Input / Output

2.2 TP FPC Pin Assignment-On-cell TP Input / Output Signal Interface

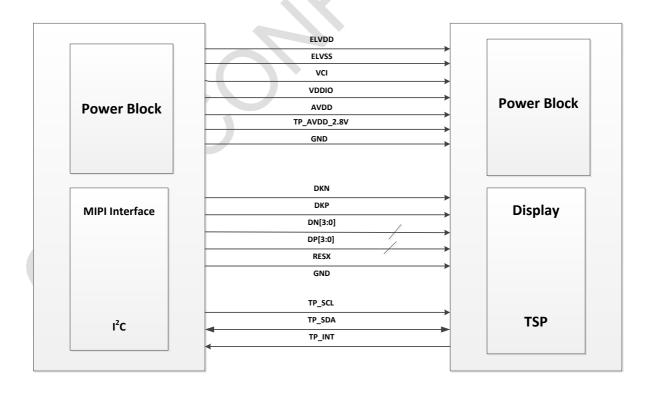
No	Symbol	I/O	Description
1	GND	GND	Ground
2	TSP_RESET	Ι	Reset Pin for TP, Active low
3	TSP_ATTN	I/O	INT pin for TP
4	TSP_SDA	I/O	SDA pin for TP
5	TSP_SCL	I/O	SCL pin for TP
6	TSP_1.8V	Power	Power supply for display logic circuits
7	TSP_2.8V	Power	Analog Power for TP

2.3 Circuit block diagram (Display)

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2.4 MCU and Display Module Interface Conflagration



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3.1 Driving AMOLED Panel

Maximum Ratings (Voltage Referenced to VSS) Vss=0V, Ta=25°C

Item	Symbol	MIN	MAX	Unit
Analog Power supply	VCI	-0.3	+5.0	V
Logic Power supply	VDDIO	-0.3	+4.0	V
Positive Power Input	ELVDD	-	+5.0	V
Negative Power Input	ELVSS	-5.0	-	V

Note: Functional operation should satisfy the limits in the Electrical Characteristics tables or Pin Description section. If the module exceeds the absolute maximum ratings, permanent damage may occur. Besides, if the module is operated with the absolute maximum ratings for a long time, the reliability may also drop.

4 Electrical Characteristics

4.1 Driving A	AMOLED Pane				Ta=	=25 °C
Item		Symbol	MIN	TYP	MAX	Unit
Logic Power s	supply	VDDIO	1.65	1.80	3.30	V
Analog Power	⁻ supply	VCI	2.65	2.80	3.60	V
ELVDD Suppl	y Voltage	ELVDD	4.55	4.60	4.65	V
ELVSS Suppl	ELVSS Supply Voltage		-5.00	-3.00	TBD	V
Input Signal	High Level	VIH	0.80*VDDIO	-	VDDIO	V
Voltage	Low Level	VIL	0.00	-	0.20*VDDIO	V
Output Signal	High Level	VOH	0.80*VDDIO	-	VDDIO	V
Voltage	Low Level	VOL	0.00	-	0.20*VDDIO	V

Note1: The input digital voltage is the I/O reference voltage.

Note2: VDDIO usually ranges from 1.65V to 1.95 V. If VDDIO is changed, the remaining voltage needs to be changed to the same voltage as VDDIO.



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	Surrent Sonsumption								
	Item		Symbol	Condition	Min.	Тур.	Max.	Unit	Remark
	Panel Power		P _{NL}	ELVDD=4.6V	-	1440	1596	mW	Note1
			I _{NL}	ELVSS=TBD	-	196	210	mA	Note2
		Normal	I _{VCI}	VCI=2.8V	-	2.1	3.2	mA	-
	IC		I _{IOVCC}	VDDIO=1.8V	-	25	26.8	mA	-
		Stand by	I _{VCI}	VCI=2.8V	-	38		uA	-
		Stand-by	I _{IOVCC}	VDDIO=1.8V	-	168		uA	-

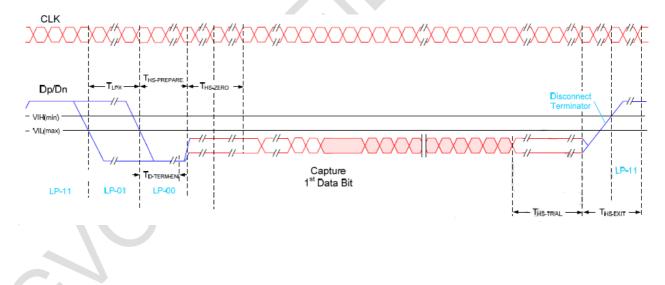
4.2 Current Consumption

Note1: Based on L255 (350 \pm 70nit) full white pattern.

Note2: Video Mode 60Hz.

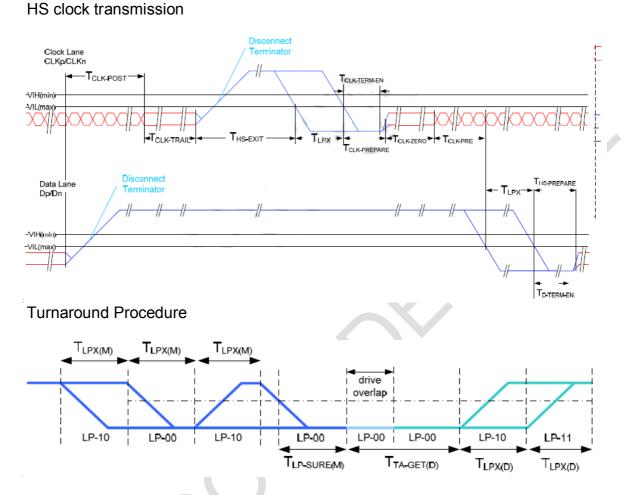
5 AC Characteristics

5.1 MIPI Interface Characteristics HS Data Transmission Burst

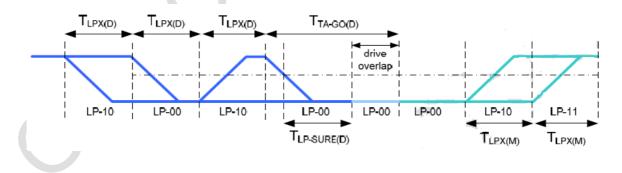




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Bus turnaround (BAT) from MPU to display module timing





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Timing Parameters:

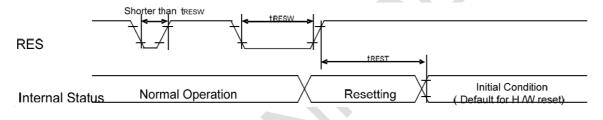
Parameter	Description	Min	Тур	Max	Unit
T _{CLK-POST}	Time that the transmitter continues to send HS clock after the last associated Data Lane has transitioned to LP Mode. Interval is defined as the period from the end of $T_{HS-TRAIL}$ to the beginning of $T_{CLK-TRAIL}$.	60ns + 52*UI			ns
T _{CLK-TRAIL}	Time that the transmitter drives the HS-0 state after the last payload clock bit of a HS transmission burst.	60			ns
T _{HS-EXIT}	Time that the transmitter drives LP-11 following a HS burst.	300			ns
T _{CLK-TERM-EN}	Time for the Clock Lane receiver to enable the HS line termination, starting from the time point when Dn crosses $V_{\text{IL,MAX}}$.	Time for Dn to reach V _{TERM-EN}		38	ns
T _{CLK-PREPARE}	Time that the transmitter drives the Clock Lane LP-00 Line state immediately before the HS-0 Line state starting the HS transmission.	38		95	ns
T _{CLK-PRE}	Time that the HS clock shall be driven by the transmitter prior to any associated Data Lane beginning the transition from LP to HS mode.	8			UI
T _{clk-prepare} + T _{clk-zero}	T _{CLK-PREPARE} + time that the transmitter drives the HS-0 state prior to starting the Clock.	300			ns
T _{D-TERM-EN}	Time for the Data Lane receiver to enable the HS line termination, starting from the time point when Dn crosses V _{IL.MAX} .	Time for Dn to reach V _{TERM-EN}		35 ns +4*UI	
T _{HS-PREPARE}	Time that the transmitter drives the Data Lane LP-00 Line state immediately before the HS-0 Line state starting the HS transmission	40ns + 4*UI		85 ns + 6*Ul	ns
T _{HS-PREPARE} + T _{HS-ZERO}	T _{HS-PREPARE} + time that the transmitter drives the HS-0 state prior to transmitting the Sync sequence.	145ns + 10*UI			ns
T _{HS-TRAIL}	Time that the transmitter drives the flipped differential state after last payload data bit of a HS transmission burst	60ns + 4*Ul			ns



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Parameter	Description	Min	Тур	Max	Unit	Notes
T _{LPX(M)}	Transmitted length of any Low-Power state period of MCU to display module	50		150	ns	1,2
T _{TA-SURE(M)}	Time that the display module waits after the LP-10 state before transmitting the Bridge state (LP-00) during a Link Turnaround.	T _{LPX(M)}		2*T _{LPX(M)}	ns	2
T _{LPX(D)}	Transmitted length of any Low-Power state period of display module to MCU	50		150	ns	1,2
T _{TA-GET(D)}	Time that the display module drives the Bridge state (LP-00) after accepting control during a Link Turnaround.		5*T _{LPX(D)}		ns	2
T _{TA-GO(D)}	Time that the display module drives the Bridge state (LP-00) before releasing control during a Link Turnaround.		4*T _{LPX(D)}		ns	2
T _{TA-SURE(D)}	Time that the MPU waits after the LP-10 state before transmitting the Bridge state (LP-00) during a Link Turnaround.	T _{LPX(D)}		2*T _{LPX(D)}	ns	2

5.2 Display RESET Timing Characteristics Reset input timing:



VDDIO=1.65 to 3.3V, VDD=2.7 to 3.6V, AGND=DGND=0V, Ta=-40 to 85° C

Timing Parameters

Symbol	Parameter	Related Pins	MIN	TYP	MAX	Note	Unit
t _{RESW}	*1) Reset low pulse width	RESX	10	-	-	-	μs
t _{REST}	*2) Reset complete time	-	-	-	5	When reset applied during Sleep in mode	ms
		-		-	120	When reset applied during Sleep out mode	ms

Note1.Spike caused by an electrostatic discharge on RESX line does not cause irregular system reset according to the table below.

RESX Pulse	Action
Shorter than 5µs	Reset Rejected
Longer than 10μs	Reset
Between $5\mu s$ and $10\mu s$	Reset starts (It depends on voltage and temperature condition.)

Note 2. During the resetting period, the display will be blank (The display is entering blanking sequence,

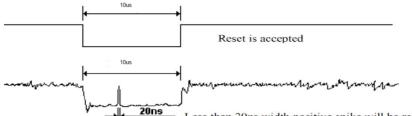


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whose maximum time is 120 ms, when Reset Starts in Sleep Out –mode. The display remains blank in Sleep In –mode) and then return to Default condition for H/W reset.

Note 3. During Reset Complete Time, data in OTP will be latched to internal register during this period. This loading is done every time when there is H/W reset complete time (tREST) within 5ms after a rising edge of RESX.

Note 4. Spike Rejection also applies during a valid reset pulse as shown below:



Note 5. It is necessary to wait 5msec after releasing RESX before sending commands. Also Sleep Out command cannot be sent for 120msec.

5.3 TE Timing Characteristics

Mode1, The Tearing Effect Output line consists of V-Blanking information only.



Tvdh = The LCD display is not updated from the frame memory. Tvdl = The LCD display is updated from the frame memory.



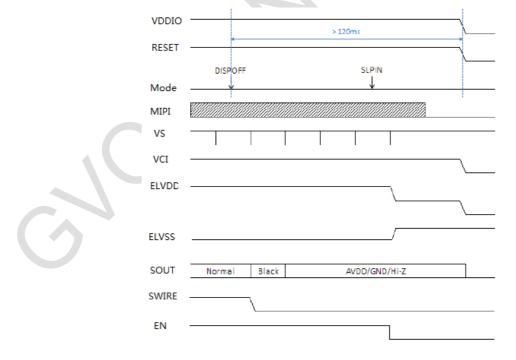
■ 量 光 电 KUNSHAN GOVISIONOX OPTOELECTRONICS CO., LTD G1549FH101GF-011 6 Recommended Operating Sequence

6.1 Display Power on / off Sequence

6.1.1 Power On Sequence

VDDIO)—	* >10m:	-										 							
RESET				-		SLPO	UT				>	120ms		C		I					
Mode MIPI				> 10ms		*									*						
VS														<i>#</i>							
VCI	0V	۰	Na Ord	er	VCI			,	,												
ELVDD ELVSS	0V 0V		/		VCI																
												1									
SOUT									A	VDD/GI	ND/Hi-	Z	 	 			Black	Black	Blac	k	Normal
SWIRE									optl	opt	2										
EN																					

6.1.2 Power Off Sequence





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6.2 Brightness control

In at/Dara		Addı	ress	Dete Tree	Description
Inst/Para	R/W	MIPI	Other	Date Type	Description
BRTCTRL	W	51h	5100h	Hex	Value form 0~255(FF)

7 Application Circuit

TBD



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 8
 Optical Characteristics Optical Specification

Item		Symbol	Condition	Min	Тур	Max	Unit	Remark
		θΤ		75	85			
Viou Anala		θΒ	CR≥10	75	85		Dograa	Note 2
View Angle		θL	CR210	75	85		Degree	Test Equipment: CS2000A
		θR		75	85			
Contrast Rat	io	CR	θ=0°	17500				Note1 Note3 Test Equipment: CS2000A
		T _{ON}						Note1 Note4
Response Ti	me	T _{OFF}	25 ℃			1	ms	Test Equipment: Admesy MSE
	White	х		(0.270)	(0.300)	(0.330)		
	VVIIIC	у		(0.290)	(0.320)	(0.350)		
	Red	х		(0.630)	(0.670)	(0.710)		Test Equipment:
Chromaticity		у		(0.290)	(0.330)	(0.370)		CS2000A
Onnonnationty	Green	х		(0.170)	(0.220)	(0.270)		Note: Chromaticity can be modified according
	Oreen	у		(0.660)	(0.710)	(0.760)	-	to customer demand
	Blue	x		(0.110)	(0.140)	(0.170)	-	
	Diue	у		(0.030)	(0.060)	(0.090)		
Uniformity	,(U	5	75			%	Note1 Note6 Iuminance of center point is 350±70nits Test Equipment: CS2000A
NTSC	1			85	100		%	Note5
Luminance		L		280	350	420	Cd/m ²	Note1 Note7 Test Equipment: CS2000A
Cross-talk						1.5	%	Note8 L≪350nits Test Equipment:



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					CS2000A
Gamma		2.0	2.2	2.4	Gamma=2.2±0.2 (L≤ 350nits) ; Gamma Self-adjustment (L> 350nits) Test Equipment: CS2000A

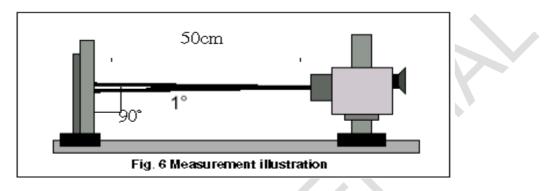
Test Conditions:

- 1. the ambient temperature is 25° C.
- 2. The test systems refer to Note1 and Note2.

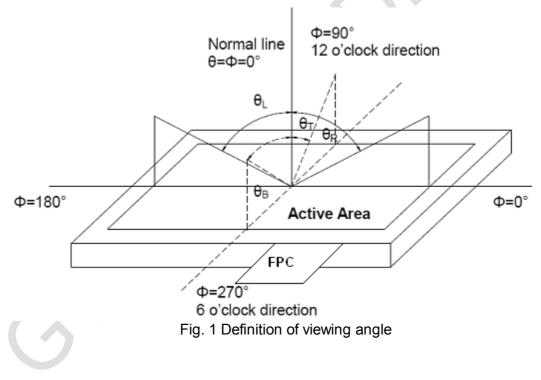
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Note 1: Definition of optical measurement system.

The optical characteristics should be measured in dark room. The optical properties are measured at the center point of the AMOLED screen. All input terminals AMOLED panel must be ground when measuring the center area of the panel.



Note 2: Definition of viewing angle range and measurement system.



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Note 3: Definition of contrast ratio

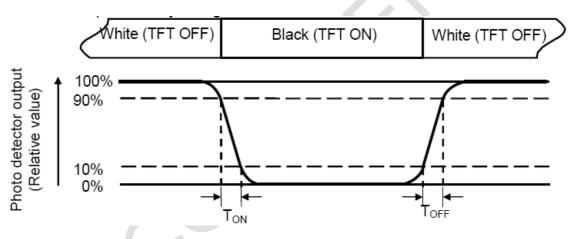
 $Contrast ratio(CR) = \frac{Lumin ance measured when LCD is on the "white" state}{Lumin ance measured when LCD is on the "Black" state}$

"White state ": A state where the AMOLED should be driven by Vwhite.

"Black state": A state where the AMOLED should be driven by Vblack.

Note 4: Definition of response time

The response time is defined as the AMOLED optical switching time interval between "White" state and "Black" state. Rise time (T_{ON}) is the time between photo detector output intensity changing from 90% to 10%. And fall time (T_{OFF}) is the time between photo detector output intensity changing from 10% to 90%.



Note 5: Definition of color chromaticity (CIE1931) Color coordinates are measured at the center point of AMOLED.

Note 6: Definition of luminance uniformity

Active area is divided into 9 measuring areas (Refer Fig. 2). Every measuring point is placed at the center of each measuring area.

Luminance Uniformity(U) = Lmin/ Lmax

L-----Active area length W----- Active area width

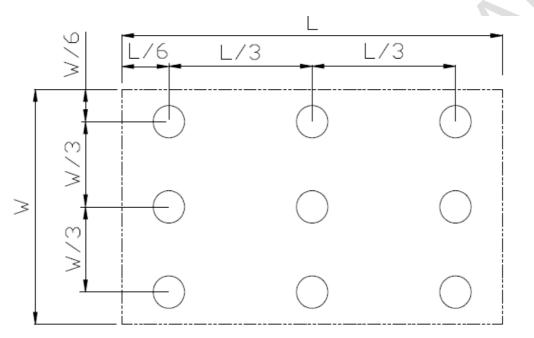


Fig. 2 Definition of uniformity

Lmax: The measured maximum luminance of all measurement position.

Lmin: The measured minimum luminance of all measurement position.

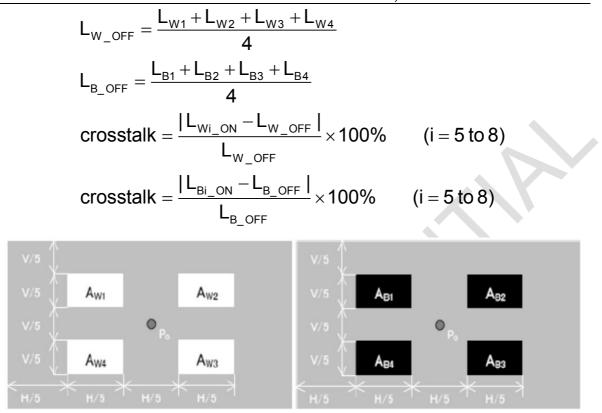
Note 7: Definition of luminance:

Measure the luminance of white state at the center point.

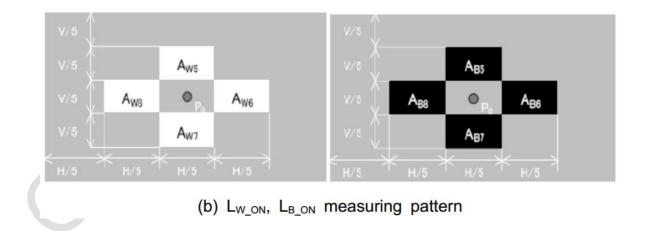
Note 8: Cross Talk

A. Measure luminance at the position, P0.

B. Calculate cross talk as below equation.



(a) Lw_OFF, LB_OFF measuring pattern





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9 Environmental / Reliability Test

No	Test Item	Condition	Remark
1	High Temperature Operation	+60℃, 120hrs	IEC60068-2-1,GB2423.2
2	Low Temperature Operation	-20℃, 120hrs	IEC60068-2-1 GB2423.1
3	High Temperature Storage	+70℃, 120hrs	IEC60068-2-1 GB2423.2
4	Low Temperature Storage	-30℃, 120hrs	IEC60068-2-1 GB2423.1
5	High Temperature & High Humidity Operation	60℃, 90% RH,120hrs	IEC60068-2-78 GB/T2423.3
6	Thermal Shock (Non-operation)	$-40^{\circ}C (30 \text{ min}) \sim +85^{\circ}C (30 \text{ min}),$ Change time:5min, 30 Cycles $T \qquad T \qquad$	Start with cold temperature, End with high temperature, IEC60068-2-14,GB2423.22
7	Electro Static Discharge (Operation)	C=150pF, R=330Ω, 5points/panel Air:±8KV, 5times; Contact:±4KV, 5 times; (Environment: 15°C~35°C, 30%~60%, 86Kpa~106Kpa).	IEC61000-4-2 GB/T17626.2
8	Package Drop Test	1 corner, 3 edges, 6 surfaces Drop height:760mm	IEC60068-2-32 GB/T2423.8
9	Package Vibration Test	Random Vibration: 1.146Grms, 1~200Hz, Random, 30mins/(X,Y,Z)axis	IEC60068-2-34 GB/T2423.11



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10 Quality Level

10.1 AMOLED Module of Characteristic Inspection

The environmental condition and visual inspection shall be conducted as below:

- (1) Ambient temperature: 22± 3°C
- (2) Humidity: 55 ± 10%RH
- (3) Ambient light intensity of visual inspection: 800 ~ 1200 lux
- (4) Ambient light intensity of function inspection: \leq 200lux
- (5) Viewing Distance: 35 ± 5cm
- (6) Viewing angle (tolerance): the front side 90° (Z) ±30°
- (7) Inspection time: 10 ±2 sec

10.2 Sampling Procedures for each item acceptance table

Defect type	Sampling Procedures	AQL
	GB/T2828.1-2003 Inspection level II	
Major defect	normal inspection	0.65
	single sample inspection	
	GB/T2828.1-2003 Inspection level II	
Minor defect	normal inspection	1.0
	single sample inspection	

Major defect:

Any defect may result in functional failure, or reduce the usability of product for its purpose, such as electrical failure, deformation and so on.

Minor defect

A defect does not reduce the usability of product for its intended purpose, such as dot defect and so on.

The criteria on major and/or minor judgment will be according with the classification of defects.

10.3 Inspection Item

No.	Item	Area		Criterion of Defect					
1	Det Defect		Туре	DS	Acceptable number				
1 Dot Defect		AA	Bright Dot	≥10mm	0	Minor			
			Dark Dot	≥10mm	4	WIITO			
2	No Display	AA		/	Not allowed	Major			



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3	Abnormal Display	AA		/		Not allowed	Major
4	Normally white	AA		1		Not allowed	Major
			single line	Brię	ght line	Not allowed	
				Da	ark line	Not allowed	
5	Line Defect	AA	Multiple lines	Bri	ght line	Not allowed	Major
		701		Da	irk line	Not allowed	major
			Half-Line	Brię	ght line	Not allowed	
	D.A.ure				ark line	Not allowed	Maian
6	Mura	AA			Limit samples		Major
			I ne tollowing		applicable to ar	iy side (unit:	
					m)	X	
			type	Z	X	Y	
7	Edge/Side breakage	OA			r	not extended to circuit	Minor
			1	≤T	≤2.0	Area	
						not	
						extended	
						to Frit	
8	Glass crack	AA、OA		1		Not allowed	Major
			W (mm)	L (mm)	DS (mm)	Acceptable number	
			W≤0.03	L<5.0	≥10	Ignore	
		AA	0.03<	L≤2.0	≥10	Ignore	Minor
		~~	0.03 < W≤0.05	2.0< L≤5.0	≥10	2	WIITIO
			0.05 <w< td=""><td>-</td><td>0</td><td>0</td><td></td></w<>	-	0	0	
9				L>5.0	0	0	
9	Panel Scratch		W (mm)	L (mm)	DS (mm)	Acceptable number	
		OA (not	W≤0.03	Ignore	≥10	Ignore	
		including	0.03<	L≤2.0	≥10	Ignore	Minor
		circuit area)	W≤0.05	2.0< L≤5.0	≥10	2	
			0.05 <w< td=""><td>-</td><td>0</td><td>0</td><td></td></w<>	-	0	0	
				L>5.0	0	0	



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		Circuit Area of OA		1		Not allowed		
10	Frit Encapsulation	FA			than the desig	ge.	Minor	
11	raised point	AA、OA		1		Not allowed	Major	
	Concave dot.			D (mm)	DS (mm)	Acceptable number		
	Black and		Front(Encap	D≤0.20	≥10	Ignore		
12	white dot、 Polarizer	AA	surface)	0.20< D≤0.50	≥10	3	Minor	
	Dent/Bubble			0.50 <d< td=""><td>≥10</td><td>0</td><td></td></d<>	≥10	0		
			Rear (LTPS surface)	/	1	Ignore		
			W (mm)	L (mm)	DS	Acceptable number		
	Delerizer		W≤0.03	Ignore	≥10	Ignore		
13	Polarizer Scratch/ Eibor(Lipoar)	AA	0.03< W≤0.05	L≤2.0	≥10	Ignore	Minor	
	Fiber(Linear)			2.0< L≤5.0	≥10	3		
			0.05 <w< td=""><td>-</td><td>≥10</td><td>0</td><td></td></w<>	-	≥10	0		
				L>5.0	≥10	0		
14	Panel dirt	AA		/	1	Not allowed	Minor	
15	UV	Not IC side	Over coating			Not allowed	Minor	
		IC side	The coating of					
		IC and	The coating is	not allowed	l breakage or l	Bubble.	Major	
	C	FPC bonding area	The coating is	not higher	than POL.			
16	Tuffy glue	Other area	Tuffy glue is no of Bubble is no	ot more thar	n 0.5mm.	the diameter	Minor	
			The coating is	not higher	than POL.			
		IC	Not allowed					
	9	FPC		diameter is r	not more than 2	2mm.		
			The component		ot have polarity	opposition.	Major	
			No wrong inse				Major	
17	FPCA	FPC	FPC should not have serious crease which destroy the line, prick and spots damage, scratch is not allowed if Cu layer is exposed.					
					ot be oxidized,	scraped	Major	



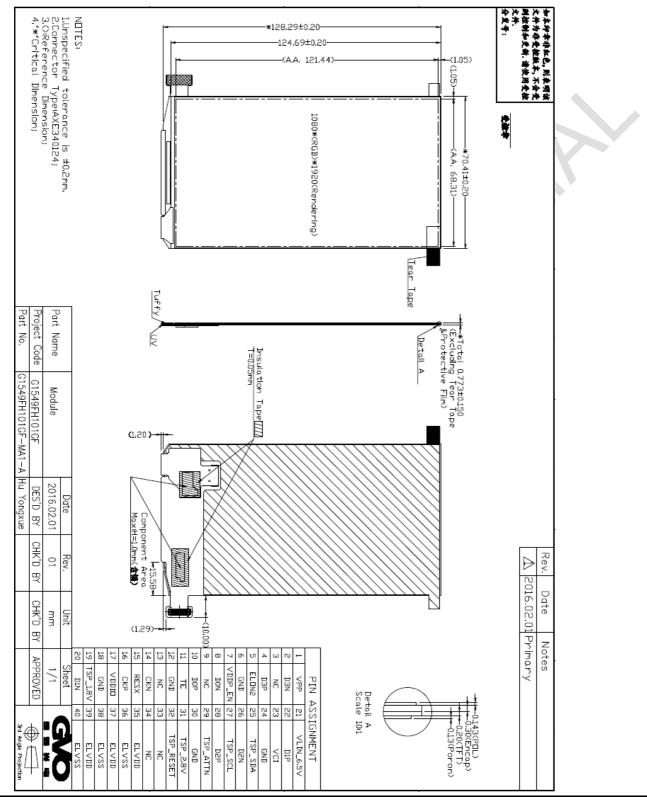
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			folded, impressed, broken, spotted or dissymmetry.		
			Make sure FPC is not scalded, with its location holes not having deficiency or obviously shift.	Major	
			The component of FPC should be the same as BOM list.	Major	
			No remaining soldering Sn	Major	
			No visual particle on the pad line	Minor	
18	FPCA End Overhang	Bonding area	The size above 1/2 of soldering electrode of the parts overhang to the LAND is prohibited. (but contacting near other components is prohibited)	Major	
19	FPCA Tilt Defect	Bonding area	Not allowed	Major	
20	Package	other	Products should put into the anti-static trays, with non-overlapping, and the trays should be staggered placed. Different products cannot be mixed into the same inner package. The package should not have obvious deformation, breakage, and the printing, labels type and quantity are correct. The package should have QC signature. ROHS label is needed if the product is under ROHS control.	Minor	



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11 Mechanical Drawing



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Packing Drawing TBD

12 Precautions for Use of AMOLED Modules

- 12.1 Handling Precautions:
- 12.1.1 The display panel is made of glass. Do not subject it to a mechanical shock by dropping it from height.
- 12.1.2 Do not press down the screen or the adjoining areas too hard because-the color tone may be shifted).
- 12.1.3 The polarizer covering the display surface of the AMOLED module is soft and easily scratched. Handle this polarizer carefully.
- 12.1.4 If the display surface is contaminated, blow on the surface and gently wipe it with a soft dry cloth. If it is still not completely clear, moisten the cloth with ethyl alcohol.
- 12.1.5 Solvents may damage the polarizer. Do not use water, ketone or aromatic solvents except ethyl alcohol.
 - Do not attempt to disassemble the AMOLED Module.
- 12.1.6 If the logic circuit power is off, do not apply the input signals.
- 12.1.7 To prevent destruction from static electricity, be careful to maintain an optimum working environment.
- 12.1.8 Be sure to make yourself in contact with the ground when handling with the AMOLED Modules.
- 12.1.9 Tools required for assembly, such as soldering irons, must be properly ground.
- 12.1.10 To reduce the generation of static electricity, do not conduct assembly or other work under dry conditions.
- 12.1.11 To protect the display surface, the AMOLED Module is coated with a film. Be careful when peeling off this protective film, because static electricity may generate.
- 12.2 Storage Precautions:
- 12.2.1 When storing the AMOLED modules, be sure that they are not directly exposed to the sunlight or the light of fluorescent lamps.
- 12.2.2 The AMOLED modules should be stored under the storage temperature range. If the AMOLED modules will be stored for a long time, the recommended condition is: Temperature: 0°C~40°C Relatively humidity: ≤80%
- 12.2.3 The AMOLED modules should be stored in the room without acid, alkali or harmful gas.
- 12.3 Transportation Precautions:
- 12.3.1 The AMOLED modules should not be suffered from falling and violent shocking during transportation. Besides, excessive press, water, damp and sunshine, should be avoided.