

# Reachlight Optoelectronic Limited

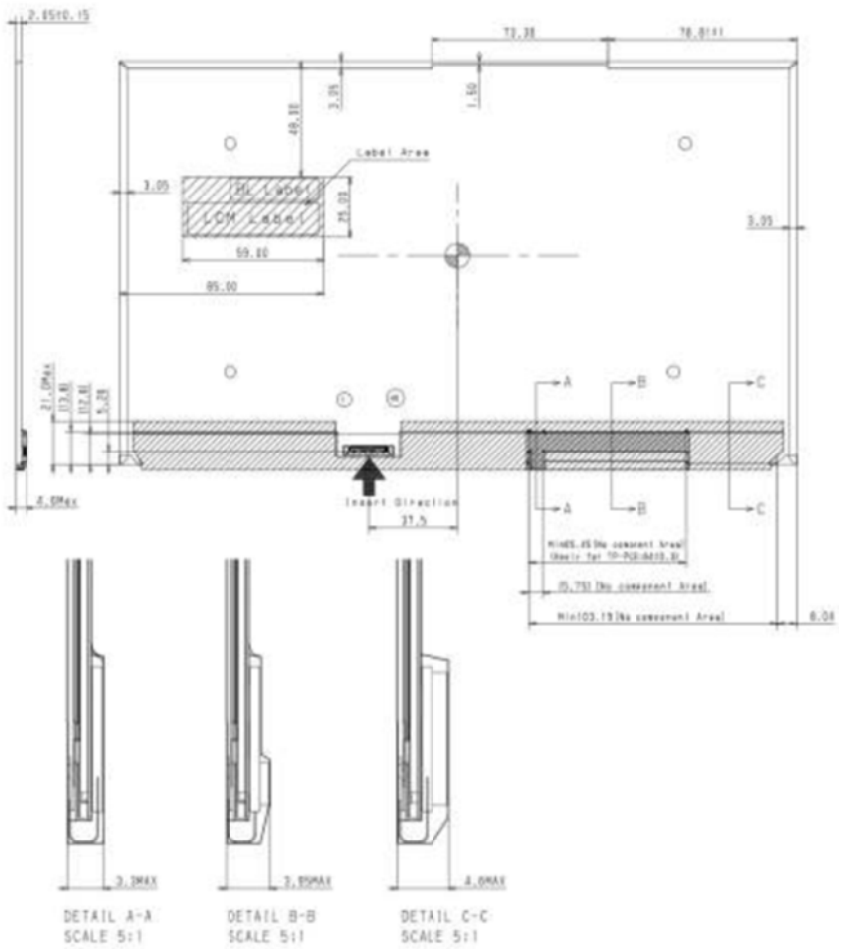
## 1. General Specifications

*The 12.5inch is a TFT-LCD module. It is composed of a TFT-LCD panel, driver IC, FPC, a back light unit. This display area contains 3840\*2160 pixels and can display up to 16.7M colors. This product accords with ROHS environmental criterion.*

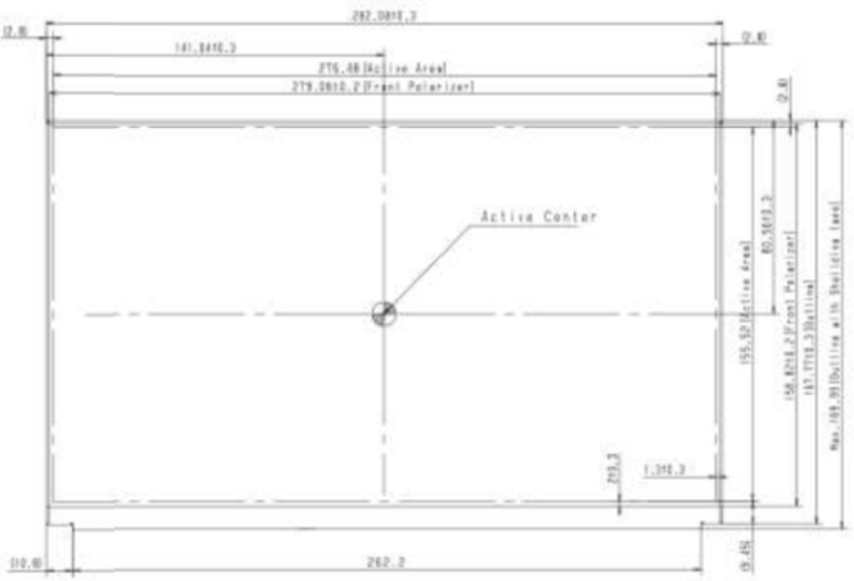
Item	Contents	Unit	Note
LCD Type	TFT	-	
Display color	16.7M		
Viewing Direction	ALL	O'Clock	
Operating temperature	-0~+50	°C	
Storage temperature	-25~+60	°C	
Module size	282.08×167.77×2.05	mm	
Active Area(W×H)	276.48×155.52	mm	
Number of Dots	3840×2160	dots	
Display Controller	-	-	
Power Supply Voltage	3.3	V	
Backlight	-	pcs	
Display Interface	EDP	-	

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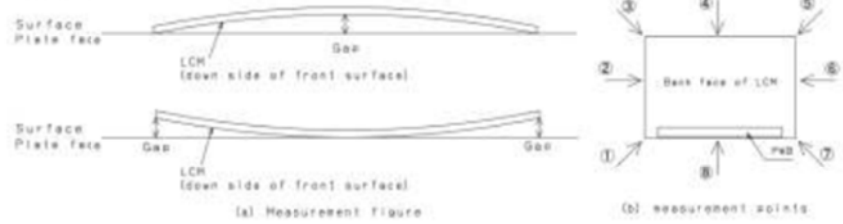
## 2. Outline Drawing




Note  
 • Unspecified tolerance to be  $\pm 0.5$   
 • Without Warpage and deflection  
 • Applicable inspection area for pol defects (scratches, dents, bubbles) is more than 1.0mm inside area from each side of the polarizer.  
 • Any wrinkles of PWD cover on PWD are no object



■ Gap: 0.20, 0mm MAX  
 ■ Measurement method  
 Put LCM on surface plate (select front surface downward) and measure the gap between module and surface plate by clearance gauge. 7 measurement points are set as below (a).



1	NC
2	H_GND
3	Lane3_N
4	Lane3_P
5	H_GND
6	Lane2_N
7	Lane2_P
8	H_GND
9	Lane1_N
10	Lane1_P
11	H_GND
12	Lane0_N
13	Lane0_P
14	H_GND
15	AUX_CH_P
16	AUX_CH_N
17	H_GND
18	VDD
19	VDD
20	VDD
21	VDD
22	BIST_Enable
23	LCD_GND
24	LCD_GND
25	LCD_GND
26	LCD_GND
27	HPD
28	BL_GND
29	BL_GND
30	BL_GND
31	BL_GND
32	BL_ENABLE
33	BL_PWM_DIM
34	HsyncO
35	NC(SDA)
36	VBL
37	VBL
38	VBL
39	VBL
40	NC(SCL)

Article NO.	RLLQ125D1
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## 3. Optical Characteristics

Item	Symbol	Condition	Min.	Typ.	Ma x.	Unit	Note
Brightness	Bp	$\theta=0^\circ$ $\Phi=0^\circ$	340	400	-	Cd/m <sup>2</sup>	
Uniformity	$\Delta$ Bp		-	-	-	%	
Viewing Angle	3:00	Cr $\geq$ 10	80	89	-	Deg	
	6:00		80	89	-		
	9:00		80	89	-		
	12:00		80	89	-		
Contrast Ratio	Cr	$\theta=0^\circ$ $\Phi=0^\circ$	800	1500	-	-	
Response Time	T <sub>r</sub> +T <sub>f</sub>		-	30	-	ms	
Color of CIE Coordinate	W	x	$\theta=0^\circ$ $\Phi=0^\circ$	Typ- 0.03	0.313	Typ+0.0 3	-
		y			0.329		-
	R	x			0.640		-
		y			0.330		-
	G	x			0.210		-
		y			0.710		-
	B	x			0.150		-
		y			0.060		-
NTSC Ratio	S	-	-	-	%		

Note : The parameter is slightly changed by temperature, driving voltage and materiel