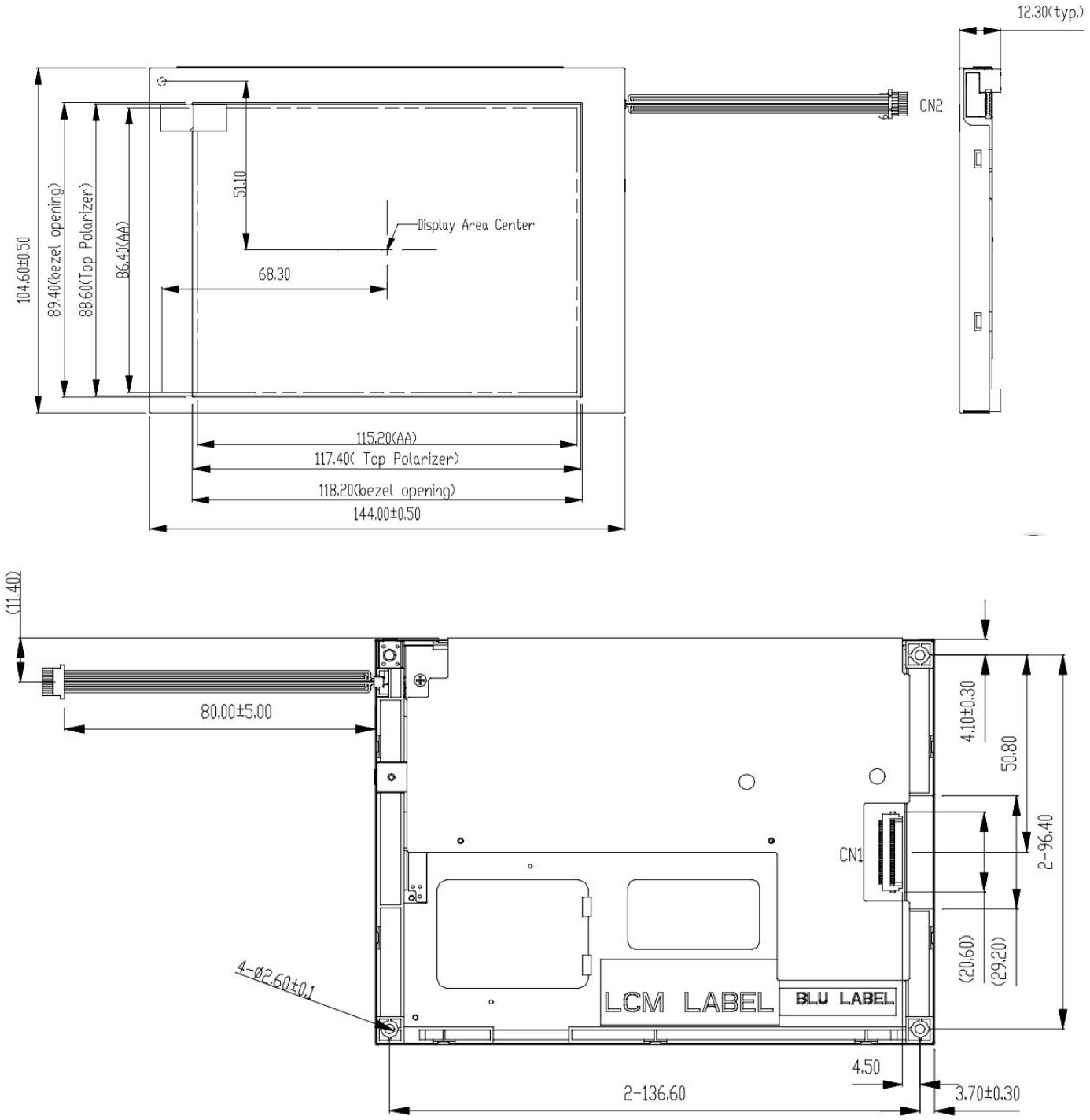

Backlight interface: CN2 Matching Connector type: SM06B-SHLS-TF (JST)

No.	Symbol	I/O	Description	Remark
1	AN1	P	LED driving anode 1 (high voltage)	Red
2	AN2	P	LED driving anode 2 (high voltage)	Red
3	AN3	P	LED driving anode 3 (high voltage)	Red
4	CA1	P	LED driving cathode 1 (low voltage)	White
5	CA2	P	LED driving cathode 2 (low voltage)	Blue
6	CA3	P	LED driving cathode 3 (low voltage)	Black

Pin Connections: CN1 Matching FPC type: 33 pin, pitch: 0.5mm, height: 0.3mm.

Pin	Symbol	I/O	Function
1	GND	0V	Power ground
2	DOTCLK	H/L	Pixel clock
3	HSYNC	H/L	Horizontal sync signal
4	VSYNC	H/L	Vertical sync signal
5	GND	0V	Power ground
6~11	R0~R5	H/L	Red data
12	GND	0V	Power ground
13~18	G0~G5	H/L	Green data
19	GND	0V	Power ground
20~25	B0~B5	H/L	Blue data
26	GND	0V	Power ground
27	DE	H/L	Data enable
28、29	V_{CC}	3.3V	Power supply voltage
30	RL	H/L	Set horizontal scan direction: Low/NC: left to right; High: right to left
31	UD	H/L	Set vertical scan direction: High/NC: up to down; Low: down to up
32	NC	-	No connection
33	GND	0V	Power ground

Basic Specifications

Item	Specifications
Size	5.7 inch
Resolution	320×3(RGB)×240
Color depth	262K
Viewing direction	6 o'clock
Operation temperature	-20 ℃ ~70 ℃
Storage temperature	-30 ℃ ~ 80 ℃
Interface type	RGB interface

DC Electrical Characteristics&Backlight Driving Conditions

Item	Symbol	Min.	Typ.	Max.	Unit
Power supply	V_{CC}	3.0	3.3	3.6	V
Supply current	I_{DD}	-	-	-	mA
Input signal voltage	V_{IH}	0.7 V_{DD}	-	V_{DD}	V
	V_{IL}	0	-	0.3 V_{DD}	V
Output signal voltage	V_{OH}	0.7 V_{DD}	-	V_{DD}	V
	V_{OL}	0	-	0.3 V_{DD}	V
Power supply for LED backlight	V_F	14.85	-	18.15	V
Current for LED backlight	I_F (Each channel)	-	25	-	mA
Operating life time for LED backlight	Ta=25℃ and I_F =25mA(Each channel)	-	20000	-	Hrs

Optical Specifications

Item		Symbol	Condition	Min.	Typ.	Max.	Unit
View angles	VERT	θT	CR≧10 (Note)	50	70	-	Degree
		θB		40	50	-	
	HOR	θL		50	70	-	
		θR		50	70	-	
Contrast ratio		CR	θ=0°	400	500	-	-
Chromaticity	White	X	Backlight is on	0.25	0.30	0.35	
		Y		0.25	0.30	0.35	
Luminance		L	Ta=25℃	-	400	-	cd/m^2

Note: T:Top 12 o'clock; B:Bottom 6 o'clock; L:Left 9 o'clock; R:Right 3 o'clock