Application

This specification is applied to the 5.7 inch VGA supported TFT-LCD module, and can display true 262,144 colors(6 bit/ color). The module is designed for OA, Car TV application and other electronic products which require flat panel display of digital signal interface. This module is composed of a 5.7”TFT-LCD panel, a driver circuit and LED backlight unit and used as the input devices for general electric appliances via both finger and pen-entry.

Features

- VGA (640×480 pixels) resolution.
- Digital 18 bit parallel RGB.
- Dot inversion mode with stripe type.
- Transparent Touch panel
  - 4-Wire
  - Analog Resistive

General Specifications

Item	Specifications	Unit
Screen Size	5.7 (Diagonal)	inch
Display Format	640RGB(H)×480(V)	dot
Active Area	115.2(H)×86.4(V)	mm
PIXEL Pitch	0.060(H)×0.180(V)	mm
Pixel Configuration	RGB Vertical Stripe	-
Display Mode	TN Type Transmissive Mode Normally White	-
Surface Treatment	Anti-Glare and Hard Coating(3H)	-
Viewing Direction	6 O’clock (The Gray Inversion will appear at this direction)	-
Outline Dimension	144.0(W)×104.6(H)×14.5(D)	mm
Weight	（259）	g
RoHS Compliance	RoHS Compliance	-

Represented by:

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Absolute Maximum Ratings

Absolute Ratings of Environment

Item	Symbol	Value		Unit	Note
		Min.	Max.		
Storage Temperature	T_{ST}	-30	+80	°C	(1)
Operating Ambient Temperature	T_{OP}	-20	+70	°C	(1)

Note (1) Temperature and relative humidity range are shown in the figure below.
(a) 90%RH Max. (Ta≦40°C).
(b) Wet-bulb temperature should be 39°C Max. (Ta>40°C).
(c) No condensation.

Electrical Absolute Ratings

TFT-LCD Module

(Ta=25±2°C, GND=VSS=0V)

Item	Symbol	Value		Unit	Note
		Min.	Max.		
Digital Power Supply Voltage	VCC	-0.3	4.3	V	-

Backlight Unit

(Ta=25±2°C)

Item	Symbol	Value		Unit	Note
		Min.	Max.		
Current of Backlight Unit	I_B	-	175	mA	(1)
Reverse voltage	V_R	-	15	V	(1)

Note (1) Permanent damage to the device may occur if maximum values are exceeded or reverse voltage is loaded.

Input / Output Terminals Pin Assignment

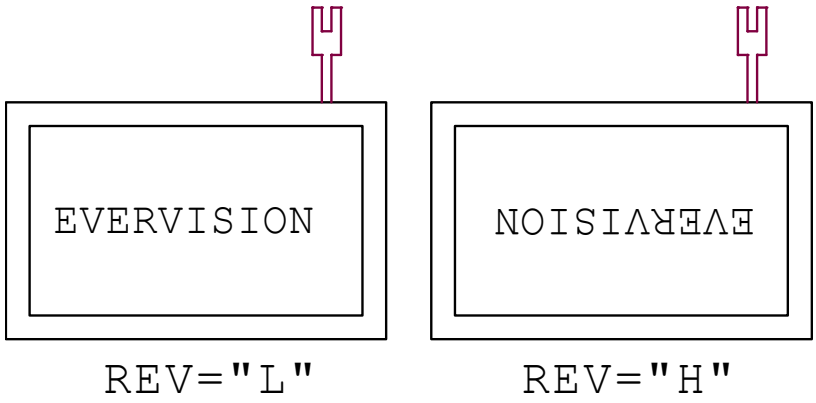
TFT-LCD Module

Connector: CVILUX CF25331D0R0-05

Pin No.	Symbol	I/O	Description
1	VSS	I	Ground
2	CLK	I	Clock signal
3	IHS	I	Horizontal synchronous signal
4	IVS	I	Vertical synchronous signal
5	VSS	I	Ground
6	R0	I	RED data (LSB)
7	R1	I	RED data
8	R2	I	RED data
9	R3	I	RED data
10	R4	I	RED data
11	R5	I	RED data(MSB)
12	VSS	I	Ground
13	G0	I	GREEN data(LSB)
14	G1	I	GREEN data
15	G2	I	GREEN data
16	G3	I	GREEN data
17	G4	I	GREEN data
18	G5	I	GREEN data(MSB)
19	VSS	I	Ground
20	B0	I	Blue data(LSB)
21	B1	I	Blue data
22	B2	I	Blue data
23	B3	I	Blue data
24	B4	I	Blue data
25	B5	I	Blue data(MSB)
26	VSS	I	Ground
27	DEN	I	Input data enable control
28	VCC	I	+3.3V power supply
29	VCC	I	+3.3V power supply

Pin No.	Symbol	I/O	Description
30	REV	I	Selection signal for horizontal/ vertical scanning direction. Note (1)
31	VSS	I	Ground
32	NC	I	No connection
33	VSS	I	Ground

Note (1)



Backlight Unit

Connector: JST BHSR-02VS-1(N)

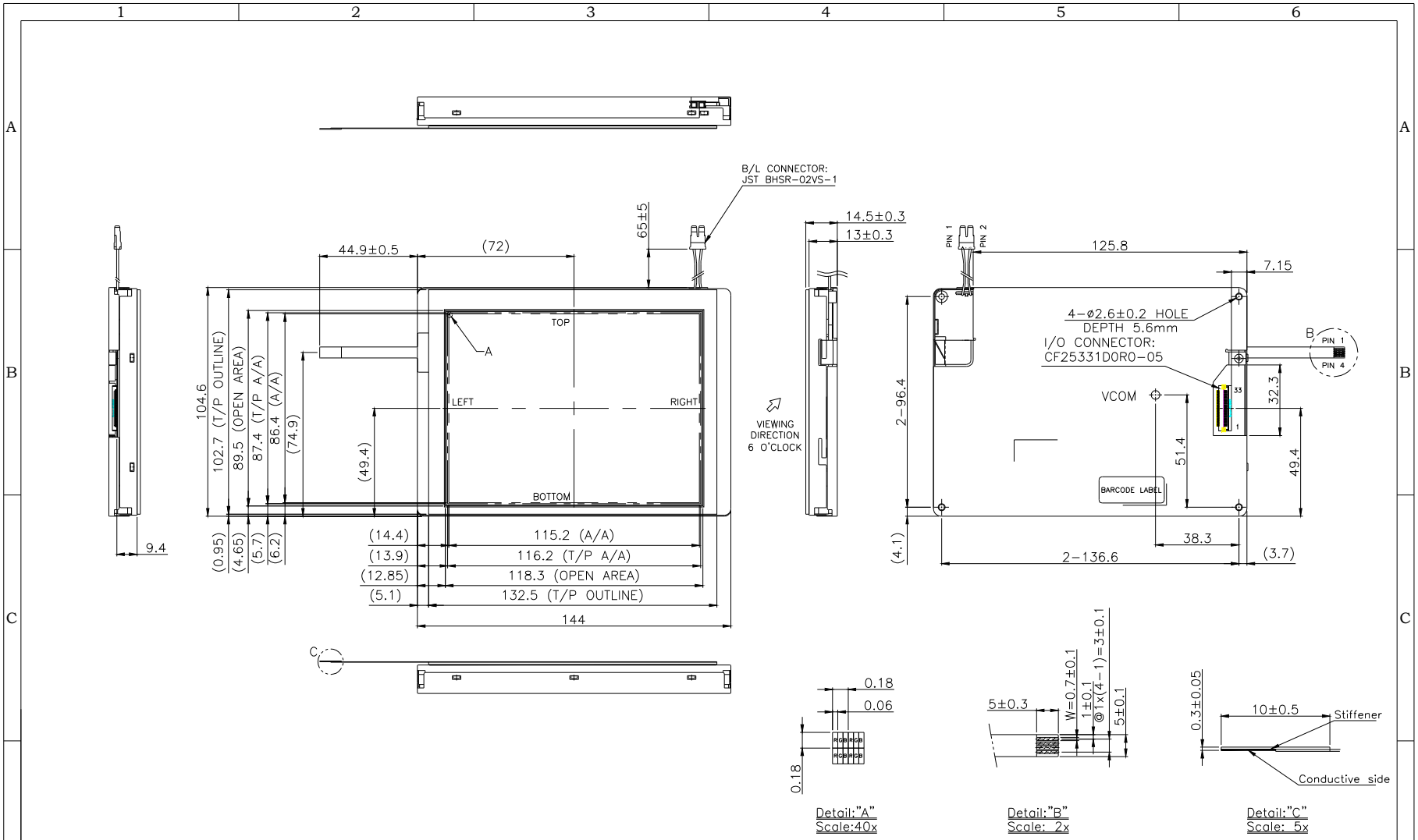
Pin No.	Symbol	I/O	Description	Wire Color
1	VLEDA	I	Backlight LED Anode.	Red
2	VLEDC	I	Backlight LED Cathode.	Black

Transparent Touch Panel

Connector: CVILUX CF25041D0R0-10

Pin No.	Symbol
1	TOP
2	RIGHT
3	BOTTOM
4	LEFT

Outline Drawing



REVISION	DESCRIPTION	REVISER	DATE												
4				DRAWING	Ino	DATE	5/4'20	MODEL	VGG644803-6UFLW	EVERVISION 偉力光電股份有限公司					
3				CHECK		DATE		TYPE	Assembly						
2				APPROVE		DATE		PAGE	1 OF 1						
1	INITIAL DRAWING	Ino	5/4'20	TOLERANCE	.X	±0.3	.XX	±0.3	.X°	±	REV.	1	UNIT	mm	(3)
				MATERIAL			Part Number				SCALE		SIZE	A4	

EVERVISION

MODEL NO. VGG644803-6UFLWQ-FC

SPEC ONLY

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