1. Application

This specification applies to color TFT-LCD module, LQ10D421
(This specification is only applied for the module which has letter "A" at the end of the lot number of the module.)

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The device listed in these specification sheets was designed and manufactured for use in general electronic equipment.

In case of using the device for applications such as control and safety equipment for transportation(aircraft, trains, automobiles, etc.), rescue and security equipment and various safety related equipment which require higher reliability and safety, take into consideration that appropriate measures such as fail-safe functions and redundant system design should be taken .

Do not use the device for equipment that requires an extreme level of reliability, such as aerospace applications, telecommunication equipment(trunk lines), nuclear power control equipment and medical or other equipment for life support .

SHARP assumes no responsibility for any damage resulting from the use of the device which does not comply with the instructions and the precautions specified in these specification sheets .

Contact and consult with a SHARP sales representative for any questions about this device .

2. Overview

This module is a color active matrix LCD module incorporating amorphous silicon TFT (Thin Film Transistor). It is composed of a color TFT-LCD panel, driver ICs, control circuit and power supply circuit and a backlight unit. Graphics and texts can be displayed on a 640×3×480 dots panel with 262,144 colors by supplying 18 bit data signal (6bit/color), four timing signals,+3.3V/ +5V DC supply voltage for TFT-LCD panel driving and supply voltage for backlight.

The TFT-LCD panel used for this module is a low-reflection and higher-color-saturation type. Therefore, this module is also suitable for the multimedia use.

Optimum viewing direction is 6 o'clock.

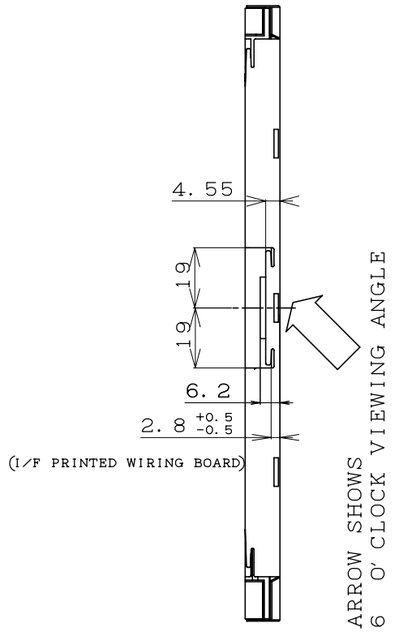
Backlight-driving DC/AC inverter is not built in this module.

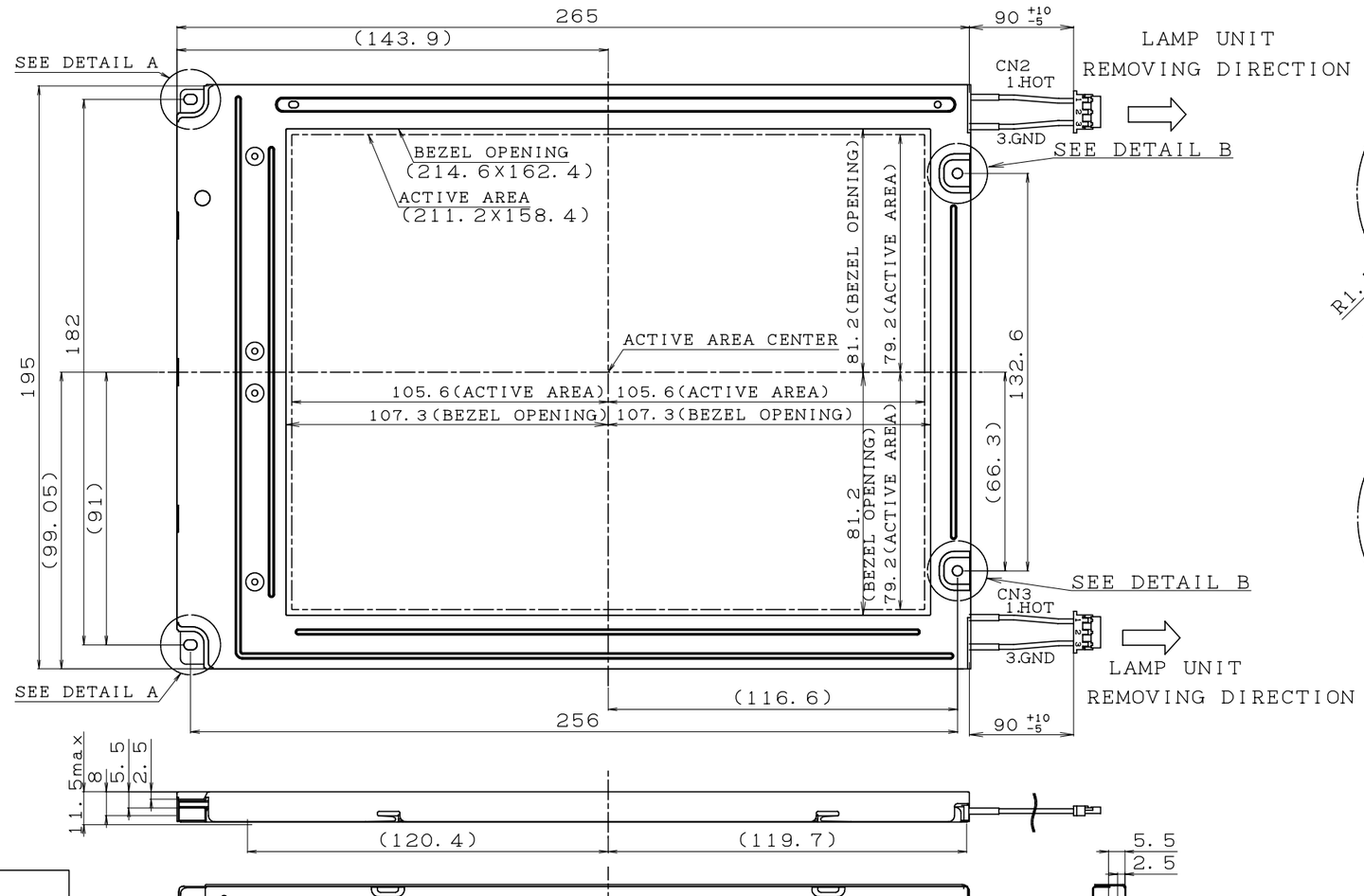
3. Mechanical Specifications

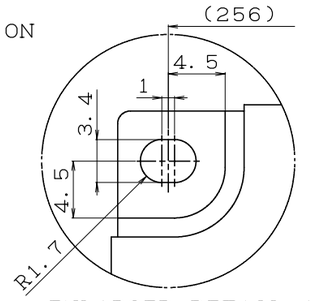
Parameter	Specifications	Unit
Display size	26 (10.4") Diagonal	cm
Active area	211.2(H)×158.4(V)	mm
Pixel format	640(H)×480(V)	pixel
	(1 pixel＝R＋G＋B dots)	
Pixel pitch	0.330(H)×0.330(V)	mm
Pixel configuration	R,G,B vertical stripe	
Display mode	Normally white	
Unit outline dimensions *1	265.0(W)×195.0(H)×11.5max(D)	mm
Mass	620(max)	g
Surface treatment	Clear and hard-coating 3H	

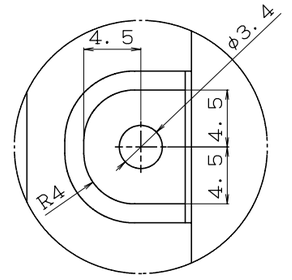
*1.Note: excluding backlight cables.

Outline dimensions is shown in Fig.1









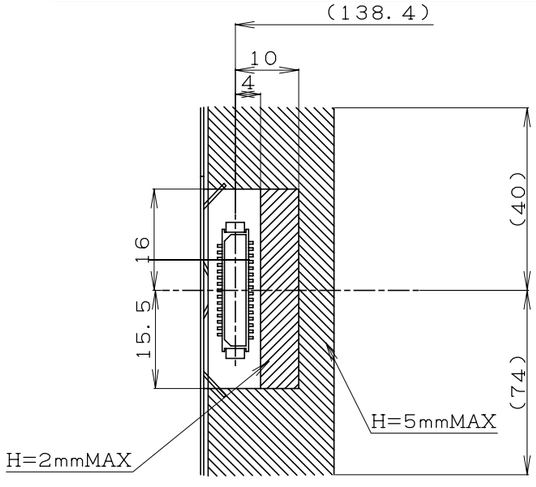
CN1:DF9MA-31P-1V

1	GND
2	CK
3	Hsync
4	Vsync
5	GND
6	RO
7	R1
8	R2
9	R3
10	R4
11	R5
12	GND
13	GO
14	G1
15	G2
16	G3
17	G4
18	G5
19	GND
20	BO
21	B1
22	B2
23	B3
24	B4
25	B5
26	GND
27	ENAB
28	Vcc
29	Vcc
30	R/L
31	U/D

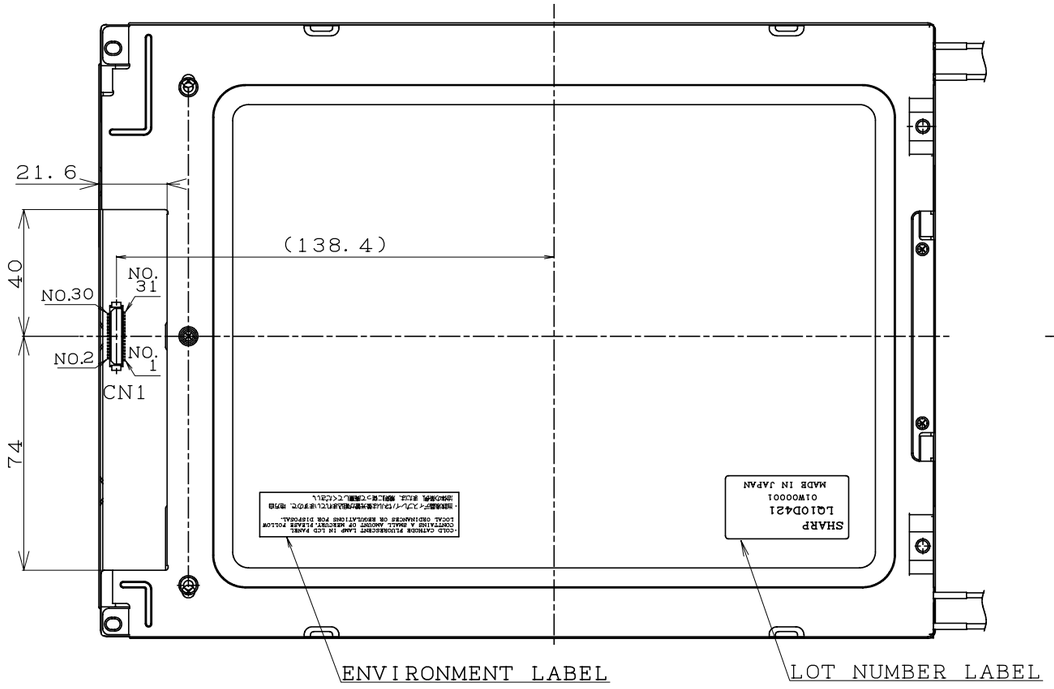
CN2,3:BHR-03VS-1

1	VHIGH
2	NC
3	VLOW

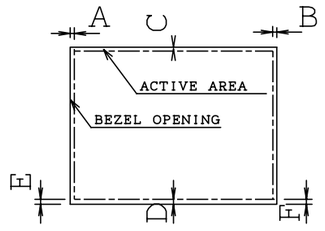
CONNECTOR OF I/F AND CIRCUMFERENCE DIAGRUM



HEIGHT STANDARD(H=0)
IS PRINTED WIRING BOARD



BEZEL/DISPLAY POSITION



1)TOLERANCE X-DIRECTION A:1.7±0.8
2)TOLERANCE X-DIRECTION B:1.7±0.8
3)TOLERANCE Y-DIRECTION C:2.0±0.8
4)TOLERANCE Y-DIRECTION D:2.0±0.8
5)OBLIQUITY OF DISPLAY AREA |E-F|<0.8

NOTES
1. UNSPECIFIED TOLERANCE TO BE ±0.5
2. WARP AND FLOATING FOR PRINTED WIRING BOARD AND CHASSIS ARE EXCLUDED FROM THE THICKNESS OF THE UNIT
3. PLEASE DESIGN USER'S CABINET BOSSES WITH 6mm TO 8mm IN DIAMETER.

D/N:2D-027-026