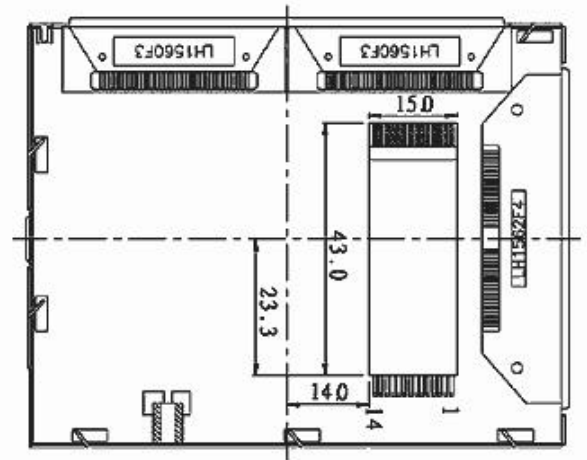
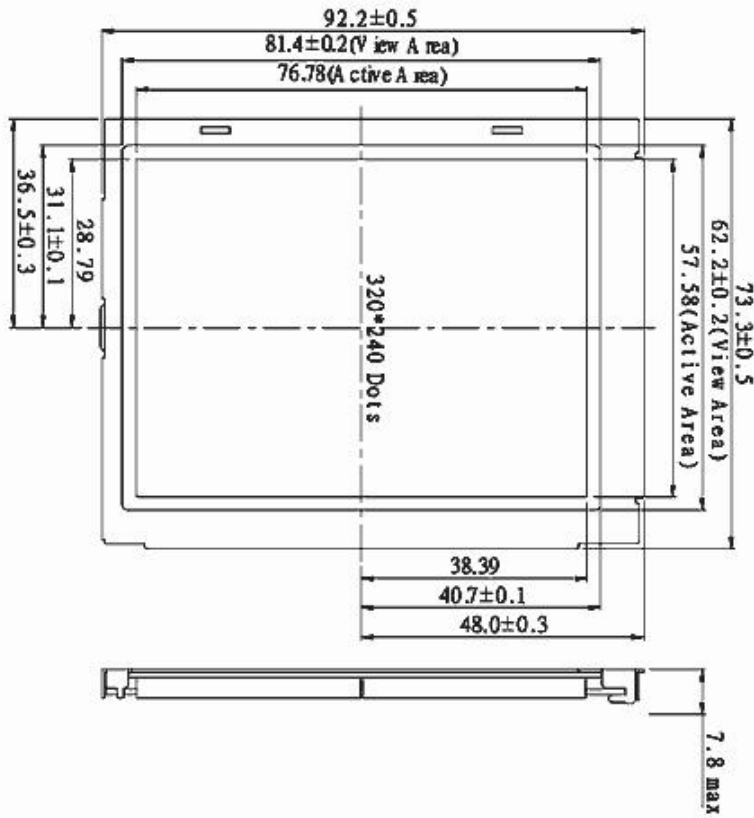
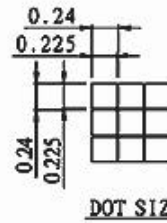


Dimension drawing



EL or NO B/L



DOT SIZE

Feature

1. 320x240 dots FSTN
2. 4-bit data bus
3. Built-in EL backlight & EL inverter
4. +5V power supply
5. 1/240 duty cycle

Pin NO	Symbol	Function
1	CL1(SCP)	Data shift pulse
2	CL1(LP)	Data latch pulse
3	FLM	Scan start-up signal
4	M(N.C.)	Frame reverse signal (alternate signal)
5	DB0	Display data
6	DB1	Display data
7	DB2	Display data
8	DB3	Display data
9	Vee	Power supply for LCD (+V)
10	Vdd	Power supply for LOGIC
11	Vss	Power supply (0V)
12	BLE	H:EL enable L:EL disable
13	V _{0.5}	Power supply for EL (GND, 0V)
14	Ve1	Power supply for EL (+)

Mechanical Data

Item	Standard Value	Unit
Module Dimension	92.2(H)x73.3(W)x7.8	mm
Viewing Area	81.4x62.2	mm
Dot Size	0.22x0.22	mm
Dot Pitch	0.24x0.24	mm

Absolute Maximum Rating

Item	Symbol	Standard Value			Unit
		min.	typ.	max.	
Power Supply	VDD-VSS	2.7	3.0	3.3	V
Input Voltage	VI	0.8V _{DD}	---	VDD	V

Note : VSS=0 Volt, VDD=5.0 Volt.

Electrical Characteristics

Item	Symbol	Condition	Standard Value			Unit
			min.	typ.	max.	
Input Voltage	VDD	L level	0.8V _{DD}	---	V _{0e}	V
	VIO	H level	V _{SS}	---	0.2V _{DD}	V
Supply Current	IDD	VDD=5V	---	---	---	mA
Recommended LC Driving Voltage for Normal Temp. Version module	VDD-V0	0°C	---	---	---	V
		25°C	---	21.6	---	
		50°C	---	---	---	
Power consumption	---	VDD=5V VEE=21.6V VEL=5V	---	0.52	---	mA