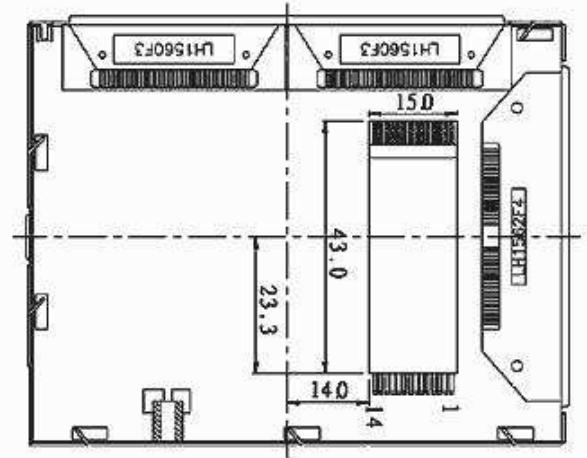
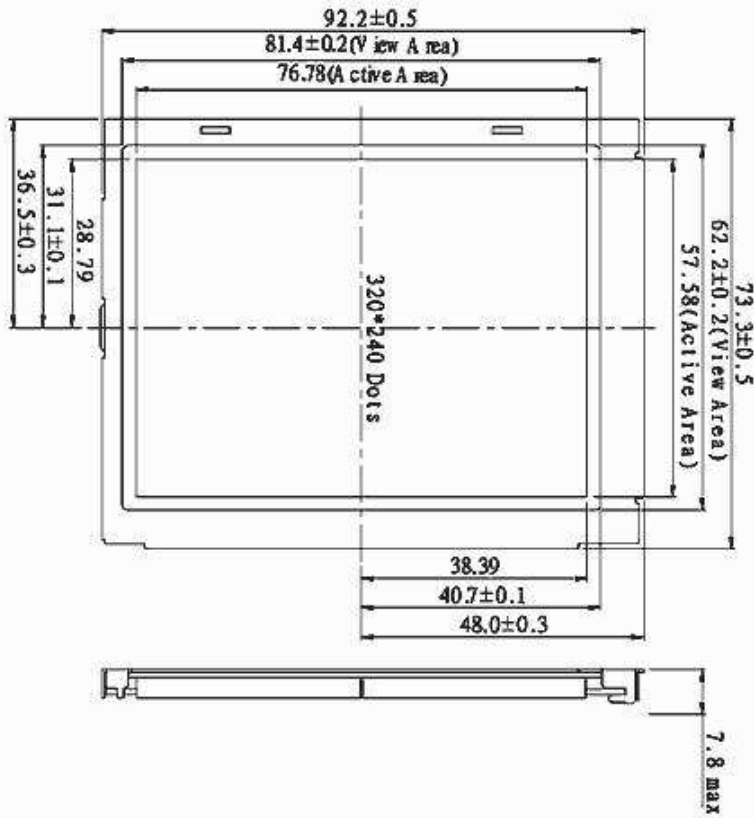
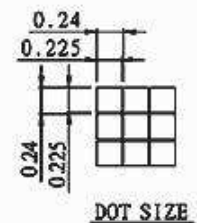


Dimension drawing



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

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

Pin NO	Symbol	Function
1	CL(SCP)	Data shift pulse
2	CL(LPI)	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 _{EL} (GND)	Power supply for EL (GND, 0V)
14	V _{EL}	Power supply for EL (+)

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 _{DD}	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