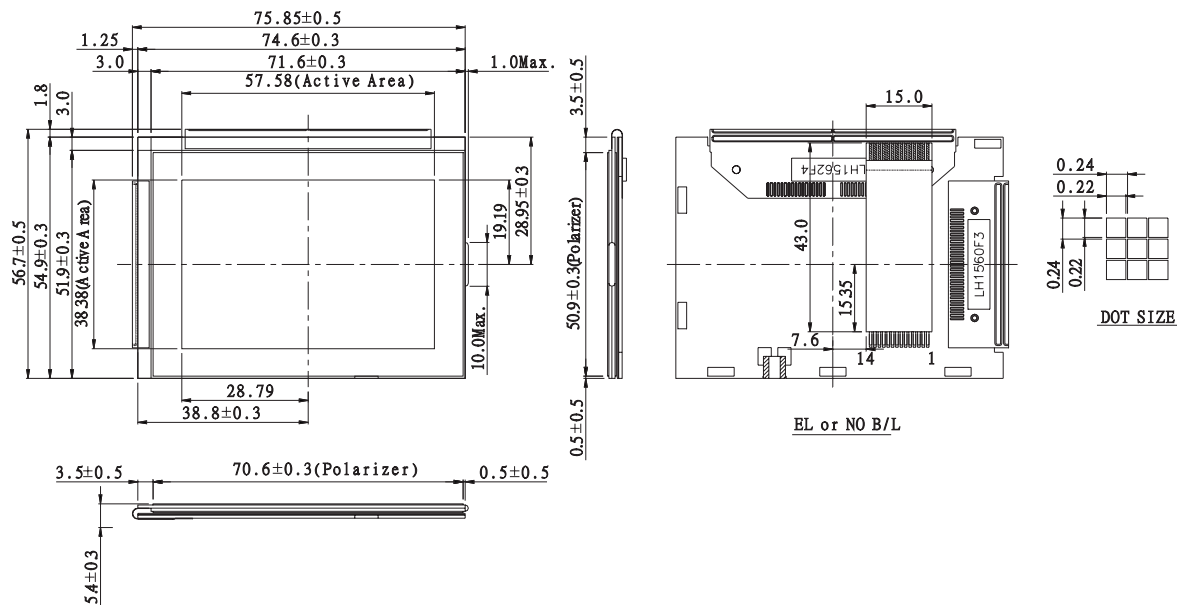


**WX240160A** Graphic 240x160dots**Dimension drawing****Feature**

1. 240x160 dots FSTN
2. 4-bit data bus
3. +5V power supply
4. 1/160 duty cycle
5. Built-in EL Backlight & EL inverter
6. Touch panel option

Mechanical Data

Item	Standard Value	Unit
Module Dimension	75.85x56.7	mm
Active Area	57.58x38.38	mm
Dot Size	0.22x0.22	mm
Dot Pitch	0.24x0.24	mm

Graphic
type

Pin NO.	Symbol	Function
1	CL2(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	Data bus line
6	DB1	Data bus line
7	DB2	Data bus line
8	DB3	Data bus line
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	VELG	Power supply for EL (GND, 0V)
14	VEL	Power supply for EL (+)

Absolute Maximum Rating

Item	Symbol	Standard Value			Unit
		min.	typ.	max.	
Power Supply	VDD-VSS	---	5.0	6.5	V
Input Voltage	VI	0.8V _{DD}	---	VDD	V

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

Electronical 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	Vee-Vss	0°C	19.4	20.5	21.6	V
		25°C	17.9	19.0	20.1	
		50°C	16.9	18.0	19.1	
Power consumption	---	VDD=5V VSS=19.5V	---	0.12	---	mA
EL	IEL	Vel=110VAC;400Hz	---	---	5.0	mA