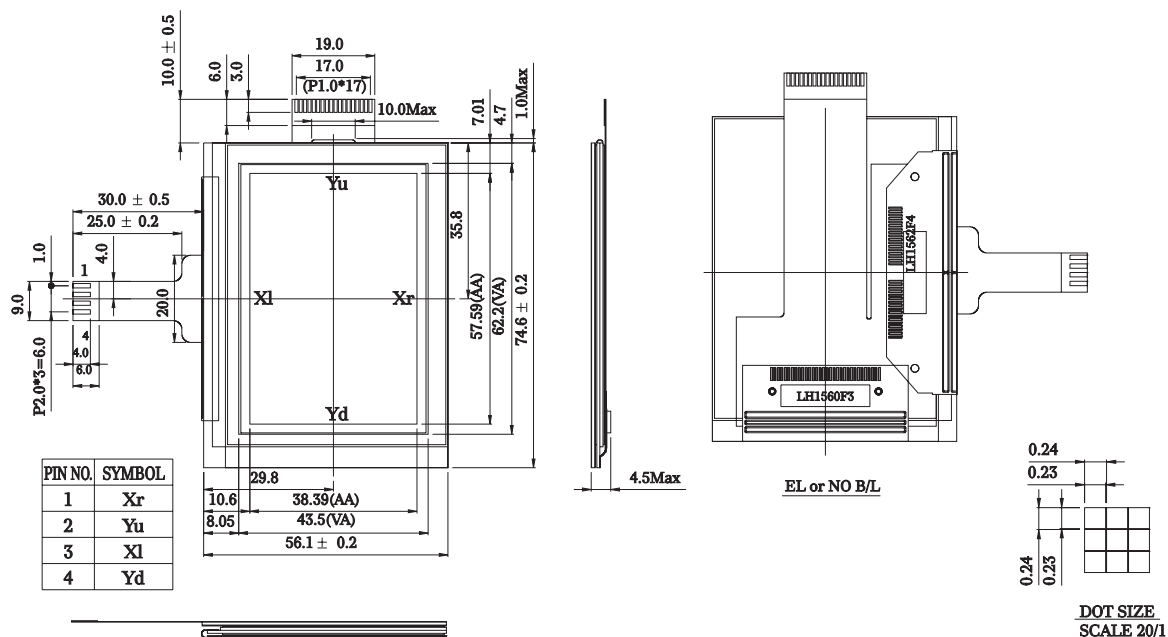


Graphic 240x160dots **WX240160B****Dimension drawing****Feature**

1. 240x160 dots FSTN
2. 4-bit data bus
3. +5V power supply
4. 1/160 duty cycle
5. Touch panel option

Graphic
type

Pin NO.	Symbol	Function
1	V5	Bias voltage for non-select
2	V2	Bias voltage for non-select
3	VEE	Power supply for LCD
4	VDD	Power supply for logic
5	FR	Frame start signal
6	VGND	Ground
7	LOAD	Data latch pulse
8	VSS	Logic GND
9	DF	Switch signal input for LC drive waveform
10	DOFF	H:display DN,L:display OFF
11	CP	Data shift pulse
12	V4	Bias voltage for non-select
13	V3	Bias voltage for non-select
14	D3	Data bus 3
15	D2	Data bus 2
16	D1	Data bus 1
17	D0	Data bus 0
18	NC	No connection

Mechanical Data

Item	Standard Value	Unit
Module Dimension	74.6x56.1	mm
Viewing Area	62.2x43.5	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	---	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	Vo-Vss	0°C	19.4	20.5	21.6	V
		25°C	18.9	19.0	20.1	
		50°C	16.9	18.0	19.1	
Power consumption	---	VDD=5V VSS=19.5V	---	0.12	---	mA
EL	---	Vel=110VAC;400Hz	---	---	5.0	mA