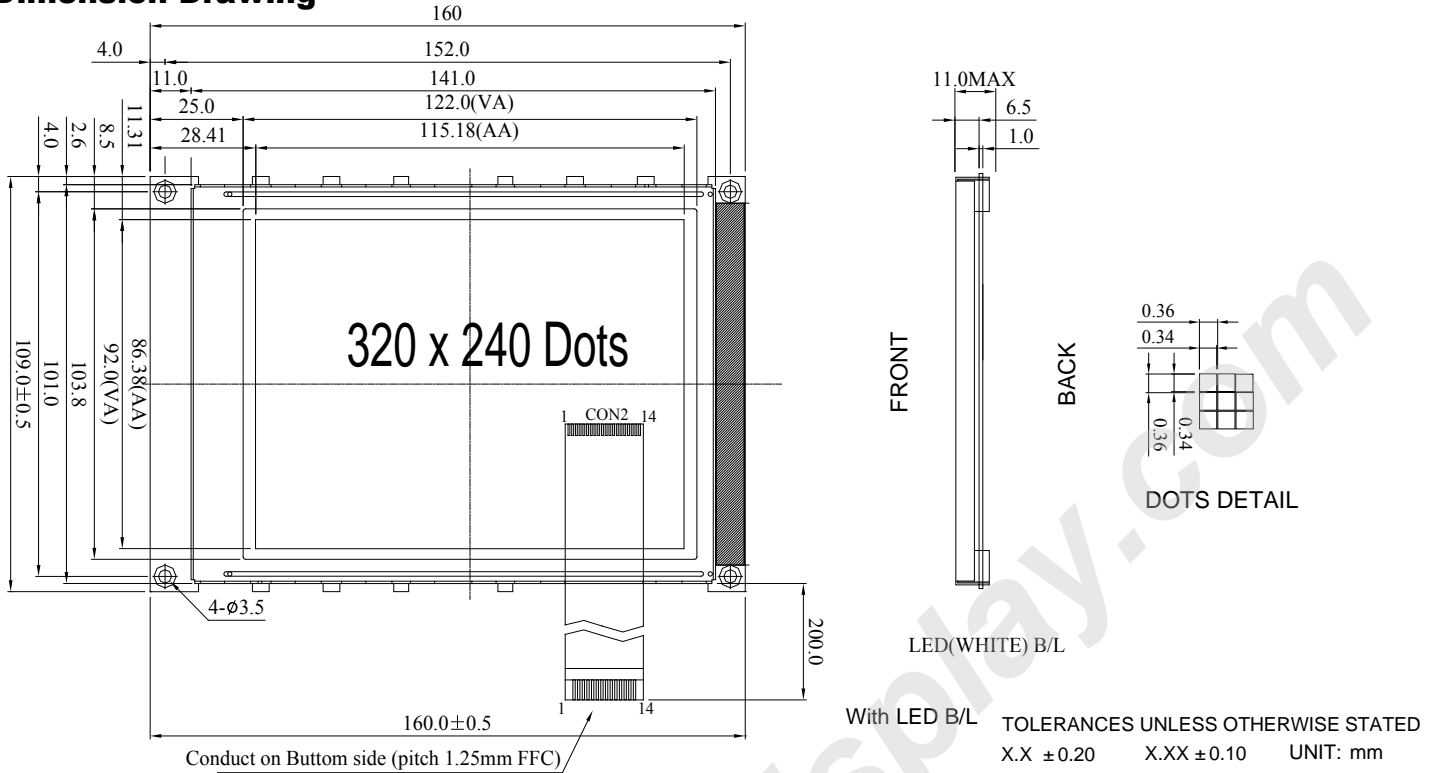


Dimension Drawing



Feature:

1. 320 x 240 Dots graphic display
2. Built-in drive ic (RA0086 or equivalent)
3. +5V Power supply(also available for +3.3V)
4. 1/240 Duty cycle
5. STN or FSTN Mode
6. Internal character generator font
7. Match all kind colors of LED back light
8. ROHS compliant

Interface Pin Connections

PIN NO.	Symbol	Function
1	DB0	H/L Data bus line
2	DB1	H/L Data bus line
3	DB2	H/L Data bus line
4	DB3	H/L Data bus line
5	/DISPOFF	Display control signal H: Display on L: Display off
6	FLM	Fist line marker
7	NC	Non-connection
8	LP	Data latch signal
9	CP	Clock signal for shifting data
10	VDD	+5V or +3.3V
11	VSS	GND
12	VEE	Negative voltage output
13	V0	Contrast adjustment
14	FGND	Frame Ground

Mechanical Data

Item	Standard	Unit
Module dimension	160.0 x 109.0	mm
Viewing area	122.0 x 92.0	mm
Mounting hole	152.1 x 101.0	mm
Dots size	0.33 x 0.33	mm

Absolute Maximum Rating

Item	Symbol	Standard			Unit
		Min	Typ	Max	
Power supply	VDD-VSS	-0.3	---	7.0	V
Input voltage	VI	-0.3	---	VDD+0.3	

Electronical Characteristics

Item	Symbol	Condition	Standard			Unit
			Min	Typ	Max	
Input voltage	VDD	+5.0V	4.5	5.0	5.5	V
		+3.3V	2.7	3.3	4.5	
Supply current	I _{DD}	VDD=5V	----	----	0.5	mA
Recommended LCD driving voltage for normal temp version module	VDD-V0 (VDD=5V)	-20 °C	18.8	19.0	19.2	V
		0 °C	18.5	18.7	19.0	
		25 °C	18.2	18.5	18.8	
		50 °C	18.0	18.3	18.5	
LED forward voltage	VF	25 °C	----	3.0	3.3	V
LED forward current	IF	25 °C Edge	----	180	200	mA
EL power supply	I _{EL}	V _{EL} =110V AC 400Hz	----	----	5.0	mA