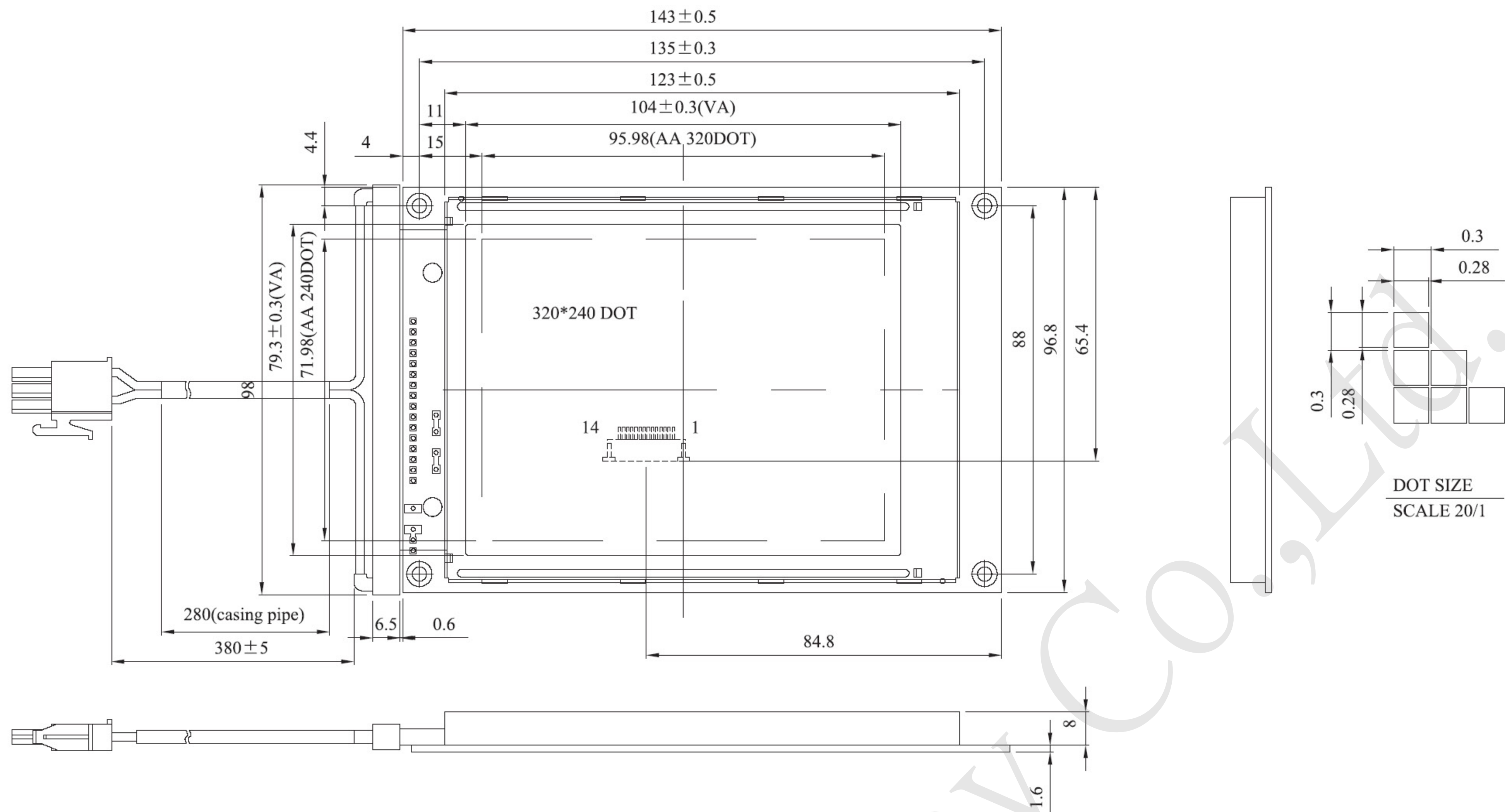


**Dimension drawing**



**Feature**

- 1. 320x240 dots
- 2. +5V power supply
- 3. 1/240 duty cycle
- 4. No controller
- 5. Touch screen option

**Mechanical Data**

Item	Standard Value	Unit
Module Dimension	143.0x96.8x9.6	mm
Viewing Area	104.0x79.3	mm
Mounting hole	135.0x88.0	mm
Dot Pitch	0.3x0.3	mm

Pin NO.	Symbol	Function
1	FRAME	First line marker
2	NC	No connection
3	LOAD	Data latch
4	CP	Data shift
5	$\overline{\text{DISPOFF}}$	H:Display ON L:Display OFF
6	D	Data bus line
7	D1	Data bus line
8	D2	Data bus line
9	D3	Data bus line
10	Vdd	Power supply for logic
11	Vss	GND
12	Vee	Negative voltage
13	Vo	Operating voltage LCD driving
14	FG	Fix hole ground

**Absolute Maximum Rating**

Item	Symbol	Standard Value			Unit
		min.	typ.	max.	
Power Supply	VDD-VSS	4.75	5.0	5.25	V
Input Voltage	VI	-0.3	---	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	0.7V <sub>DD</sub>	---	V <sub>DD</sub>	V
	VIO	H level	0	---	0.3V <sub>DD</sub>	V
Supply Current	IDD	VDD=5V	---	10.0	15.0	mA
Recommended LC Driving Voltage for Normal Temp. Version module	VDD-V0	0°C	22.0	23.0	24.0	V
		25°C	21.3	22.4	23.0	
		50°C	19.5	20.8	22.1	
CCFL Starting Voltage	VFLS	25°C	---	600	---	Vrms
CCFL Driving Voltage	VFLD	25°C	---	268	---	Vrms
CCFL Driving Current	IFLD	VFQ=450Vrms 30KHZ	---	5.0	---	mA <sub>rms</sub>