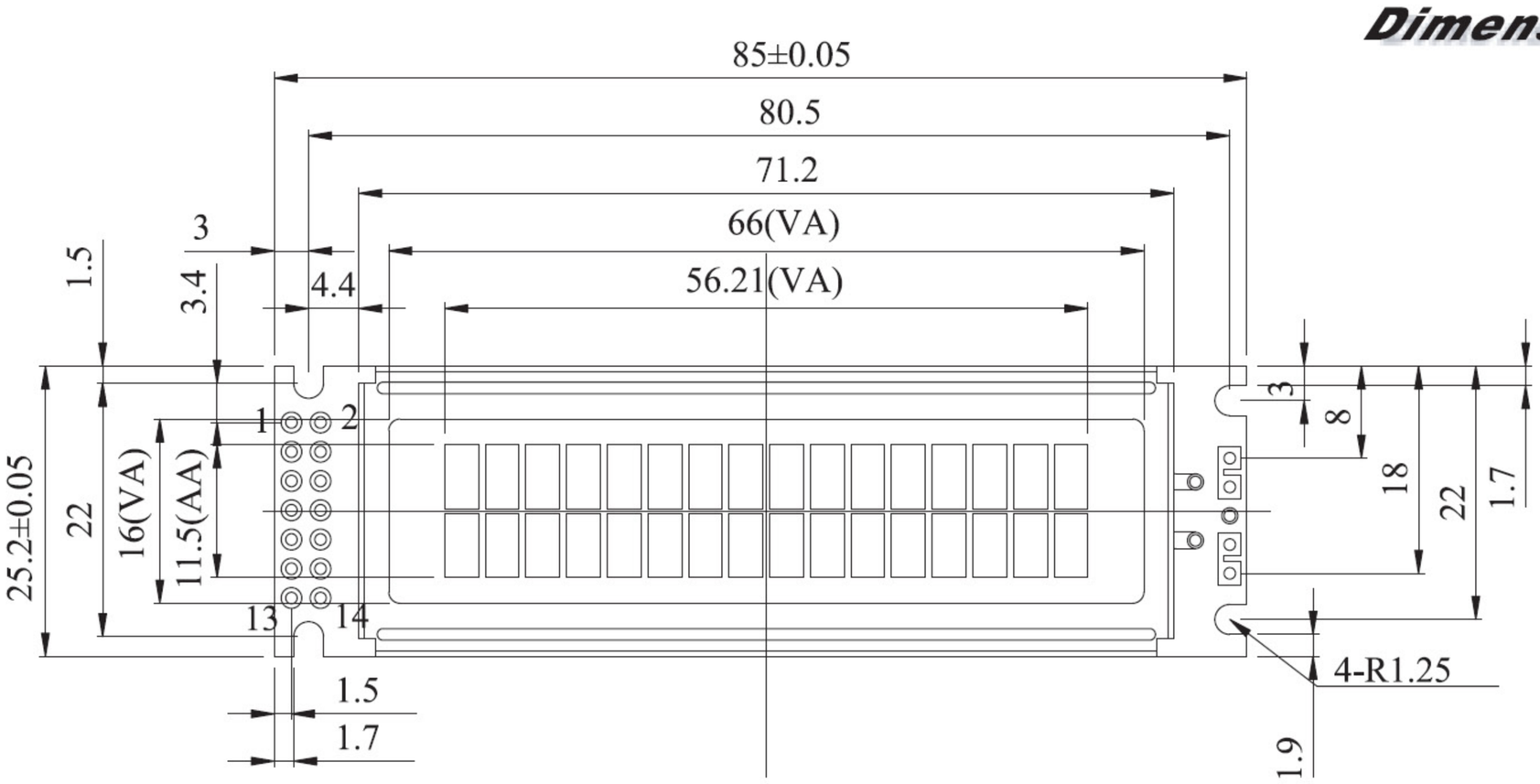
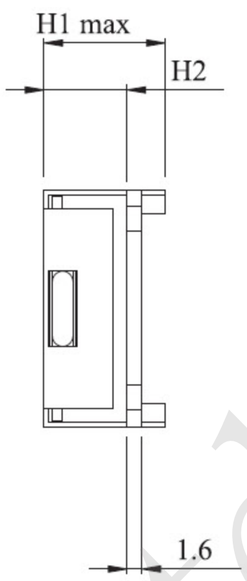
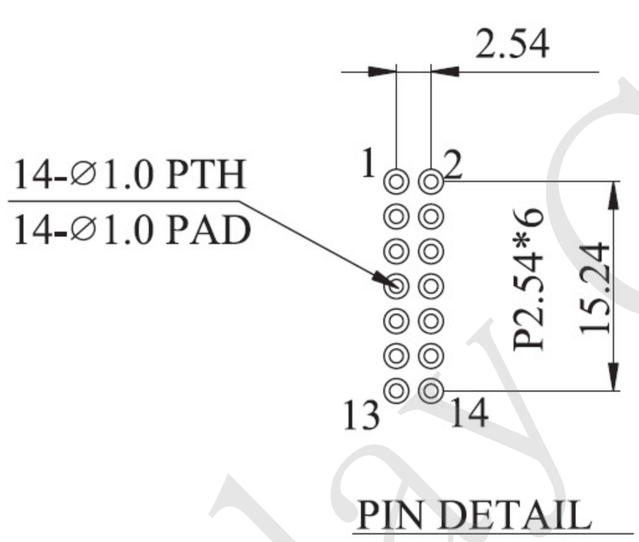
Dimension drawing



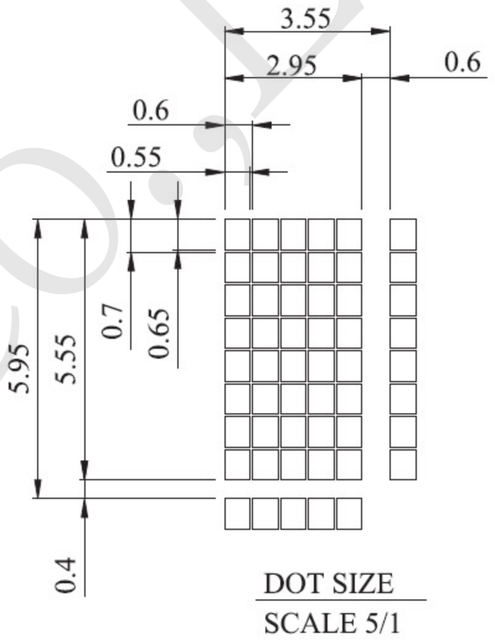


LED-H/L B/L

	High
H1	13.2
H2	8.6



PIN DETAIL



DOT SIZE
SCALE 5/1

Feature

1. 5x8 dots includes cursor
2. Built-in controller (KS0066 or Equivalent)
3. +5V power supply
4. 1/16 duty cycle

Pin NO.	Symbol	Function
1	DB7	Data bus line
2	DB6	Data bus line
3	DB5	Data bus line
4	DB4	Data bus line
5	DB3	Data bus line
6	DB2	Data bus line
7	DB1	Data bus line
8	DB0	Data bus line
9	E	H→L Enable signal
10	R/W	H/L Read/Write signal
11	RS	H/L Register select signal
12	Vo	Contrast Adjustment
13	Vss	GND
14	Vdd	Power Supply(+5V)

Mechanical Data

Item	Standard Value	Unit
Module Dimension	85.0x25.2	mm
Viewing Area	66.0x16.0	mm
Mounting hole	80.5x22.0	mm
Character Size	2.95x5.55	mm

Absolute Maximum Rating

Item	Symbol	Standard Value			Unit
		min.	typ.	max.	
Power Supply	VDD-VSS	-0.3	---	7.0	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	VDD=+5V		4.7	5.0	5.3	V
Supply Current	IDD	VDD=5V		---	1.2	1.5	mA
Recommended LC Driving Voltage for Normal Temp. Version module	VDD-V0	-20℃		---	---	5.3	V
		0℃		4.7	4.8	4.9	
		25℃		4.6	4.7	4.8	
		50℃		4.3	4.4	4.6	
		70℃		4.1	4.2	4.4	
LED Forward Voltage	VF	25℃		---	4.2	4.6	V
LED Forward Current	IF	25℃	Array	---	130	260	mA
			Edge	---	20	40	
EL Power Supply Current	IEL	Vel=110VAC;400Hz		---	---	5.0	mA

Display Character Address Code :

Display position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
DD RAM Address	00	01														0F
DD RAM Address	40	41														4F

WINSTAR Display Co.,Ltd.