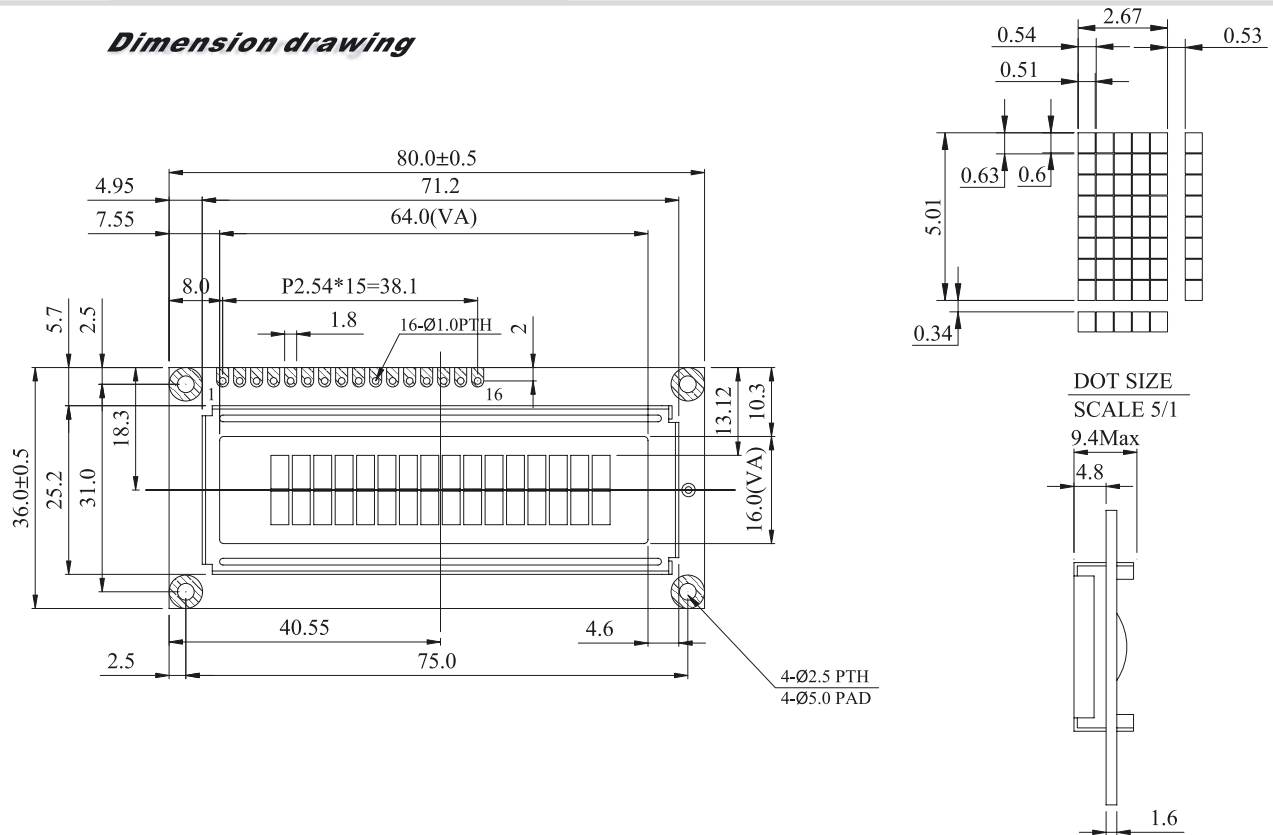


**WP1602B** Character 16x2**Dimension drawing**

Graphic type

Feature

1. PLED 16 Words, 2 lines.
2. Built-in controller (Compatible with HD44780)
3. Low power consumption
4. High contrast ratio and wide viewing angle
5. Compatible with LCD 16X2 type

Pin NO.	Symbol	Function
1	Vss	GND
2	Vdd	Power supply
3	Vo	Contrast Adjustment
4	RS	H/L register select signal
5	R/W	H/L Read / Write signal
6	E	H→L Enable signal
7	DB0	Data bus line
8	DB1	Data bus line
9	DB2	Data bus line
10	DB3	Data bus line
11	DB4	Data bus line
12	DB5	Data bus line
13	DB6	Data bus line
14	DB7	Data bus line
15	NC	No connection
16	NC	No connection

Mechanical Data

Item	Standard Value	Unit
Module Dimension	80x36x9.4	mm
Viewing Area	66x16	mm
Mounting hole	75x31	mm
Character Size	2.67x5.01	mm

Absolute Maximum Rating

Symbol	Parameter	Min	Typ	Max	Unit
VDD	Supply voltage for Logic	4.5	5.0	5.5	V
T _{opr}	Operating temperature	-20	---	50	°C
T _{atg}	Storage temperature	30	---	70	°C
V _{bt}	Brightness control voltage	2	3	5	V
T _{solder}	Soldering Temperature	260°C for S seconds			
P _d	Module power consumption @V _{bt} =3V (Note 1)	50	63	113	mW
P _s	Power saving mode @V _{bt} =2.5V (Note 2)	38	50	63	mW

Item	Operating		Storage	
	Min	Max	Min	Max
Ambient Temperature	20°C	50°C	30°C	70°C
Humidity	45°C 85%RH		45°C 85%RH	
Corrosive gas	Not Acceptable		Not Acceptable	

Electronical Characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit
Power supply voltage	VDD		4.5		5.5	V
Brightness control voltage	VBT		2	3	5	V
Power supply current	I _{cc}	VDD=5V (Logical only)		0.35	0.6	mA
High level input voltage	V _{ih}		0.7VDD		VDD	V
Low level input voltage	V _{il}		-0.3		0.55	V
Leakage current	I _i		-1		1	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