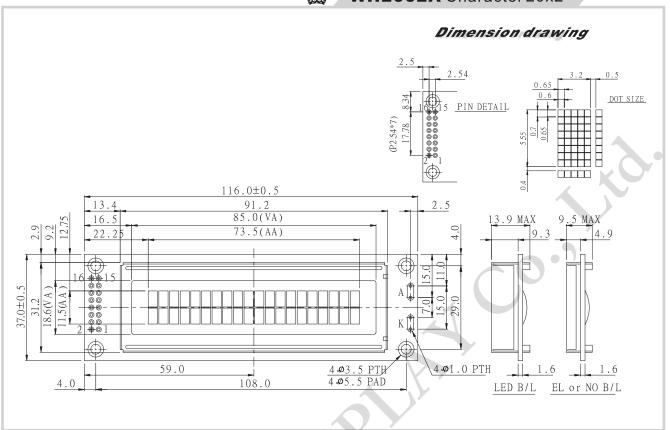
WH2002A Character 20x2



Feature

- 1.5x8 dots includes cursor
- 2. Built-in controller (ST 7066 or Equivalent)
- 3. +5V power supply (Also available for +3V)
- 4.1/16 duty cycle
- 5. LED can be driven by pin1,pin2,pin15,pin16 or A and K
- 6. N.V. optional for +3V power supply

Pin NO.	Symbol	Function
1	Vss	GND
2	Vdd	+3V or + 5V
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	H/L Data bus line
8	DB1	H/L Data bus line
9	DB2	H/L Data bus line
10	DB3	H/L Data bus line
11	DB4	H/L Data bus line
12	DB5	H/L Data bus line
13	DB6	H/L Data bus line
14	DB7	H/L Data bus line
15	A/Vee	+4.2V for LED /Negative Voltage output
16	K	Power supply for B/L (0V)

Mechanical Data

Item	Standard Value	Unit
Module Dimension	116.0x37.0	mm
Viewing Area	85.0x18.6	mm
Mounting hole	108.0x 29.0	mm
Character Size	3.2x5.55	mm

Absolute Maximum Rating

lt o ma	Symbol	Stan	Unit			
Item	Symbol	min.	typ.	max.	Omit	
Power Supply	VDD-VSS	-0.3		7.0	>	
Input Voltage	VI	-0.3		VDD	V	

Note: VSS=0 Volt, VDD=5.0 Volt.

Electronical Characteristics

Item	0	O = == d;4; = ==	Stan					
nem	Symbol	Condition	min.	typ.	max.	Unit		
Innut Valtage	VDD	VDD=+5V	4.7	5.0	5.3	>		
Input Voltage	VUU	VDD=+3V	2.7 3.0 5		5.3	>		
Supply Current	IDD	VDD=5V	I	1.0	1.2	mA		
		-20°C	5.0	5.1	5.7			
Recommended LC Driving		o°C	4.6	4.8	5.2			
Voltage for Normal Temp.	VDD-V0	25°C	4.1	4.5	4.7	٧		
Version module		50°C	3.9	4.2	4.5			
		70°C	3.7	3.9	4.3			
LED Forward Voltage	VF	25°C		4.2	4.6	٧		
LED Forward Current	IF	25°C		210	420	mΑ		
EL Power Supply Current	IEL	Vel=110VAC;400Hz			5.0	mΑ		

Display Character Address Code:

_	1 1			141	
1)	ICN	12V	$n \cap s$	itior	

Display position																		
•			1	2	3	4	5	6	7	8	9	10	11	12	13	 	20	
DD RA	M A	ddress	00	01													13	
DD RA	M A	ddraee	40	41						П							53	

