Next Vision Display
Brighten The Future

NEXT VISION DISPLAY

SPECIFICATION

CUSTOMER : _____

MODULE NO.: NH1602BN002ER

Version	
Engineer	
Date	

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Customer:
Approved by

NEXT VISION DISPLAY CO., LTD.

地址: 中國上海小木橋路600號
ADD: 600 XIAO MU QIAO ROAD, SHANGHAI, CHINA

WEB: www.nextvisiondisplay.com

TECHNICAL: technical@nextvisiondisplay.com
MARKETING: marketing@nextvisiondisplay.com
SALES: sales@nextvisiondisplay.com

Display Specification

ITEM	STANDARD VALUE	UNIT
Resolution	16 Characters x 2 Lines	--
Display Connector	Pin Header,14 pin	--
Operating Temperature	-20 ~ +70	℃
Storage Temperature	-30 ~ +80	℃

Mechanical Specification

ITEM	STANDARD VALUE	UNIT
Outline Dimension	85.0(W) × 30.0(H) × 12.2(T) (MAX)	mm
Visual Area	64.3(W) × 16.0(H)	mm
Active Area	55.46(W) × 10.76(H)	mm
Character Size	2.96(W) × 5.16(H)	mm
Dot Size	0.56×0.61	mm
Dot Pitch	0.60 ×0.65	mm
Net Weight	40.0 ± 15% grams (typical)	g

Next Vision Display
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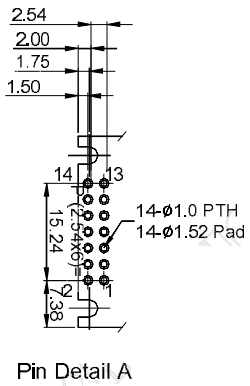
Electrical Specification

ITEM	STANDARD VALUE	UNIT
IC Package	COB	--
Controller	HD44780 or Equivalent KS0066 or SPLC780	--
Interface	6800 8-bit Parallel, 6800 4-bit Parallel	--

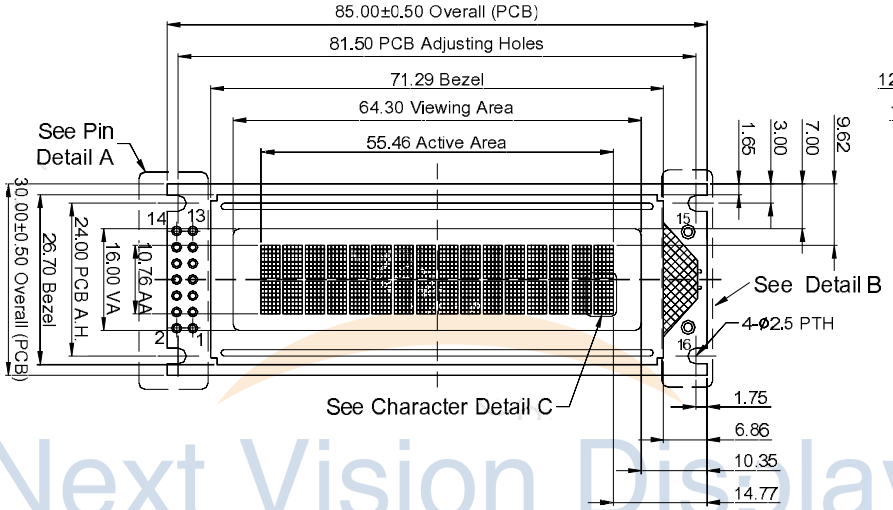
Optical Specification

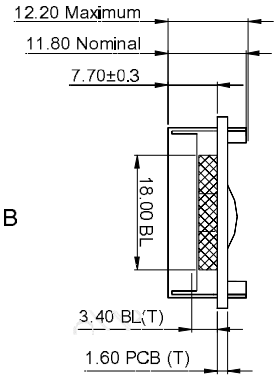
ITEM	STANDARD VALUE	UNIT
Viewing Direction	6:00	Clock
LCD Duty	1/16	Duty
LCD Bias	1/5	Bias

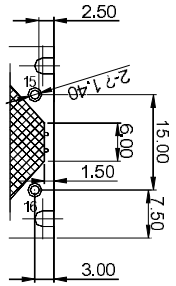
Tolerance is ±0.2mm unless specified.



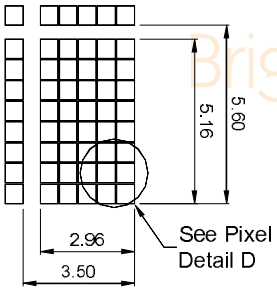
Pin Detail A



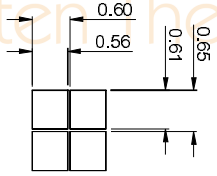




Detail B



Character Detail C



Pixel Detail D

Note:
1. Pin 15 and Pin 16 should be non-connected if Pin A and Pin K of backlight is connected to power supply.

2. R7 and R8 should be removed if Pin 15 and Pin 16 is connected to power supply.

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Unspecified Tolerance: ±0.30	UNITS: mm	DATE:	MODEL NUMBER : NH1602BN002ER		SHEET: 1 Of 1
DESIGN BY:	Jim	Sep-29-2013			
CHECKED BY:	liucheng	Sep-29-2013			DATE: Sep-29-2013
APPROVED BY:			DO NOT SCALE THIS DRAWING.	PROJECTION	

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Pin Configuration

Pin No	Pin Name	Descriptions
1	VDD	Logic Power Supply
2	VSS	Ground ,0V
3	V0	Operating voltage for LCD
4	RS	Data / Instruction Register Select (H: Data Signal, L: Instruction Signal)
5	R/W	Read / Write (H: Read Mode, L: Write Mode)
6	E	Enable Signal
7	DB0	Data Bit 0
8	DB1	Data Bit 1
9	B2	Data Bit 2
10	DB3	Data Bit 3
11	DB4	Data Bit 4
12	DB5	Data Bit 5
13	DB6	Data Bit 6
14	DB7	Data Bit 7
15	LED_A	Backlight Anode
16	LED_K	Backlight Cathode

Note:

1. Pin 15 and Pin 16 should be non-connected if Pin A and Pin K of backlight is connected to power supply.
2. S1,S2 should be open and solder R12 with 0ohm resistor if pin15 and pin 16 is connected to power supply.