Next Vision Display
Brighten The Future

NEXT VISION DISPLAY

SPECIFICATION

CUSTOMER : _____

MODULE NO.: NH1602BN001ER

Version	1.1
Engineer	
Date	08/22/14

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Customer:
Approved by

NEXT VISION DISPLAY CO., LTD.

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WEB: www.nextvisiondisplay.com

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

SPECIFICATION

Display Specification

ITEM	STANDARD VALUE	UNIT
Resolution	16 Characters x 2 Lines	--
Display Connector	Pin Header, 16 Pins	--
Operating Temperature	-20 ~ +70	℃
Storage Temperature	-30 ~ +80	℃
Touch Panel Optional	N/A	--
Font Chip Optional	N/A	--

Mechanical Specification

ITEM	STANDARD VALUE	UNIT
Outline Dimension	80.0(W) ×36.0(H) × 13.5(T) (MAX)	mm
Visual Area	64.5(W) × 14.5(H)	mm
Active Area	55.45(W) × 10.85(H)	mm
Character Size	2.95(W) × 5.15(H)	mm
Dot Size	0.55×0.60	mm
Dot Pitch	0.60 ×0.65	mm
Net Weight	32.0 ± 15% grams (typical)	g

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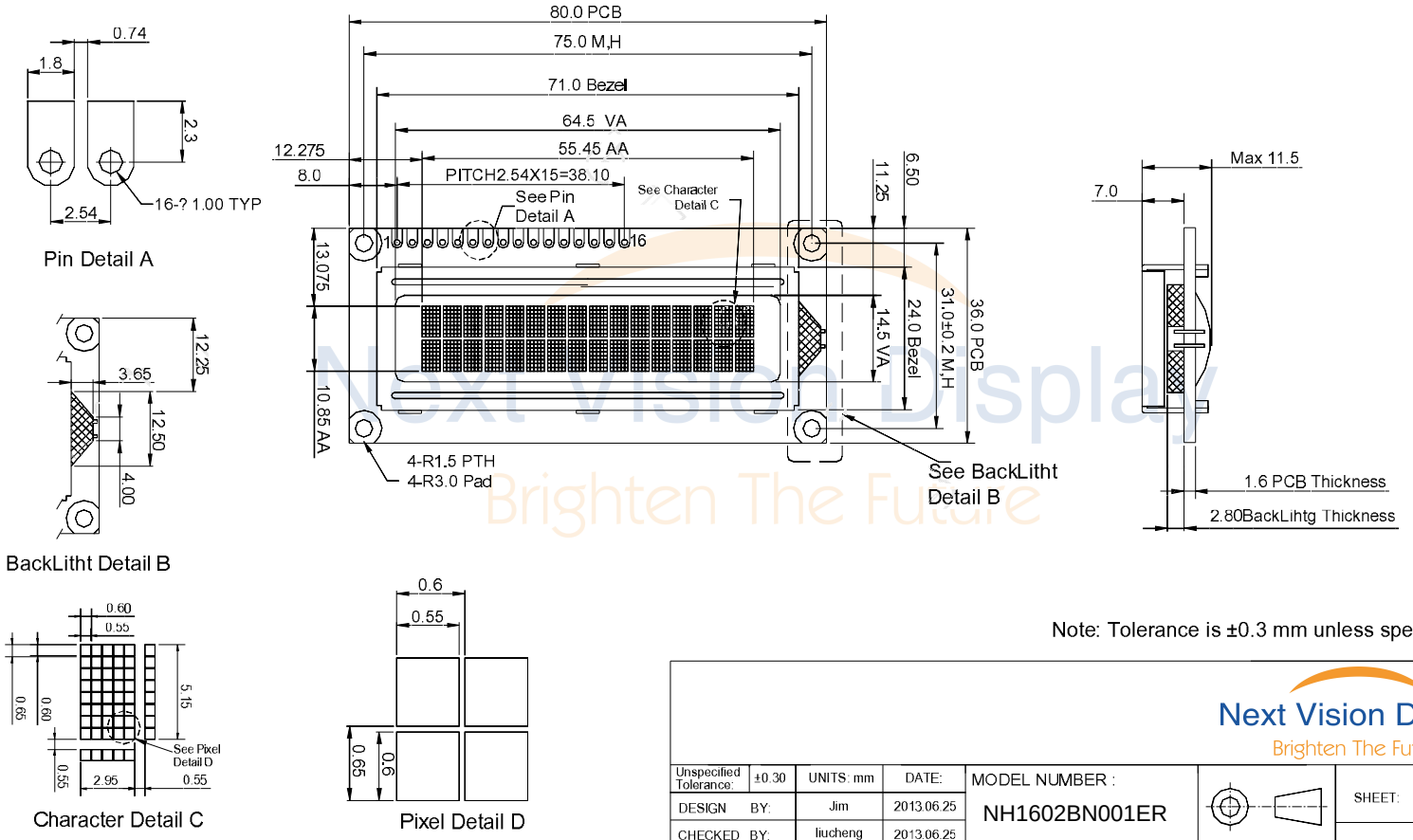
Electrical Specification

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

All Pages Of This Edition Approved			
Signature:		Date:	



Note: Tolerance is ±0.3 mm unless specified.

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Unspecified Tolerance:	±0.30	UNITS: mm	DATE:	MODEL NUMBER : NH1602BN001ER		SHEET: 1 Of 1
DESIGN BY:		Jim	2013.06.25			
CHECKED BY:		liucheng	2013.06.25			DATE: 2013.06.25
APPROVED BY:				DO NOT SCALE THIS DRAWING.	PROJECTION	

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ELECTRICAL SPEC

. Pin Configuration

Pin No	Pin Name	Descriptions
1	VSS	Ground ,0V
2	VDD	Logic Power Supply
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

Absolute Maximum Ratings

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT
Power Supply for Logic	VDD-VSS	-0.3	-	+7.0	V
Power Supply for LCD	VLCD	VDD-15	-	VDD+0.3	V
Input Voltage	VIN	-0.3	-	VDD+0.3	V
Supply Current for Backlight	ILED	-	-	25	mA

Electrical Characteristics

ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Power Supply for LCM	VDD-VSS	-	4.8	5.0	5.2	V
			3.0	3.3	3.6	
Input Voltage	VIL	L Level	-0.2	-	1	V
	VIH	H Level	VDD-1.0	-	VDD	V
LCD Driving Voltage	VDD-V0	-	4.5	4.8	5.1	V
Supply Current for LCM	IDD	VDD=5.0V	-	-	1500	uA
		VDD=3.3V	-	-	1250	
Supply Current for Backlight	ILED	-	-	15	-	mA

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