Next Vision Display
Brighten The Future

NEXT VISION DISPLAY

SPECIFICATION

CUSTOMER : _____

MODULE NO.: NH2004GN002WS

Version	0
Engineer	
Date	2022/11/10

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Customer:
Approved by

NEXT VISION DISPLAY CO., LTD.

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General Specification

Item	Dimension	Unit
Module dimension	74.3 x 36.4 x 6.0	mm
View area	60.5 x 22.18	mm
Active area	58.5 x 20.18	mm
Dot size	0.45x 0.54	mm
Dot pitch	0.50 x 0.59	mm
Character size	2.45 x 4.67	mm
Character pitch	2.95 x 5.17	mm
LCD type	FSTN Positive Transflective (In LCD production, It will occur slightly color difference. We can only guarantee the same color in the same batch.)	
Duty	1/33DUTY,1/6BIAS	
View direction	6 o'clock	
Backlight Type	LED, White	
IC	IST3602	
Interface	I2C	

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Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-20	—	+70	℃
Storage Temperature	TST	-30	—	+80	℃
Input Voltage	VIN	-0.3	—	V_{DD}+0.3	V
Power Supply Voltage	V_{DD}	-0.3	—	4.0	V
LCD Driver Voltage	VLCD	-0.3	—	18.0	V

Electrical Characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For Logic	V_{DD}	—	2.7	3.0	3.3	V
Supply Voltage For LCD	V_O-V_{SS}	Ta=-20℃	—	—	—	V
		Ta=25℃	7.6	7.8	8.0	V
		Ta=70℃	—	—	—	V
Input High Volt.	V_{IH}	—	0.8 V_{DDIO}	—	V_{DD}	V
Input Low Volt.	V_{IL}	—	V_{SS}	—	0.2 V_{DD}	V
Output High Volt.	V_{OH}	—	0.8 V_{DDIO}	—	V_{DD}	V
Output Low Volt.	V_{OL}	—	—	—	0.2 V_{DD}	V
Supply LCM current	IDD	VDD=3.0V	—	1.0	1.5	mA

Please kindly consider to design the Vop to be adjustable while programing the software to match LCD contrast tolerance.

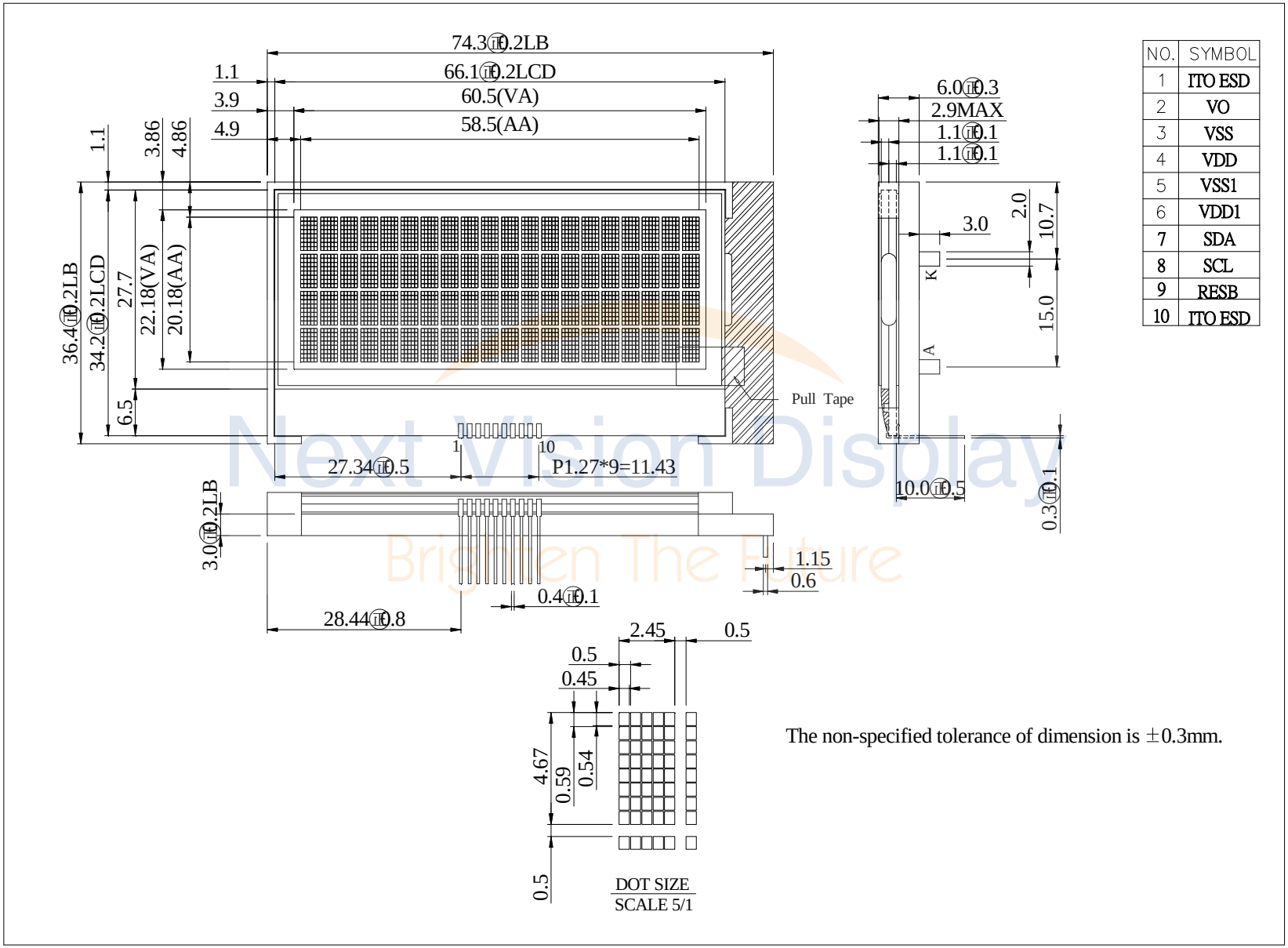
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Interface Pin Function

Pin	Symbol	Function Description
1	ITO ESD	Ground
2	V0	LCD Power Suppply
3	VSS	Ground
4	VDD	Power Suppply
5	VSS1	Ground
6	VDD1	Power Suppply
7	SDA	Serial input data
8	SCL	Serial input clock
9	RESB	Hardware Reset input pin
10	ITO ESD	Ground

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Contour Drawing



NO.	SYMBOL
1	ITO ESD
2	VO
3	VSS
4	VDD
5	VSS1
6	VDD1
7	SDA
8	SCL
9	RESB
10	ITO ESD

The non-specified tolerance of dimension is ±0.3mm.

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