Next Vision Display
Brighten The Future

NEXT VISION DISPLAY

SPECIFICATION

CUSTOMER : _____

MODULE NO.: NT043-N001ML

Version	01
Engineering	
Date	2020/05/18

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General Specifications

It is a TFT-LCD module. It is composed of a TFT-LCD panel, driver IC, FPC, a back light unit . The 4.3'' display area contains 480 x (RGB)x 272 pixels and can display up to 16.7M colors. This product accords with ROHS environmental Criterion.

Item	Contents	Unit	Note
LCD Type	TFT	-	
Display color	16.7M		1
Viewing Direction	ALL	O'Clock	
Operating temperature	-30~+85	℃	
Storage temperature	-30~+85	℃	
Module size	105.5X67.2X2.95	mm	2
Active Area(W×H)	95.04X53.86	mm	
Number of Dots	480×272	dots	
Controller	SC7283	-	
Power Supply Voltage	3.3	V	
Backlight	6S2P-LEDs (white)	pcs	
Weight	---	g	
Interface	RGB888	-	

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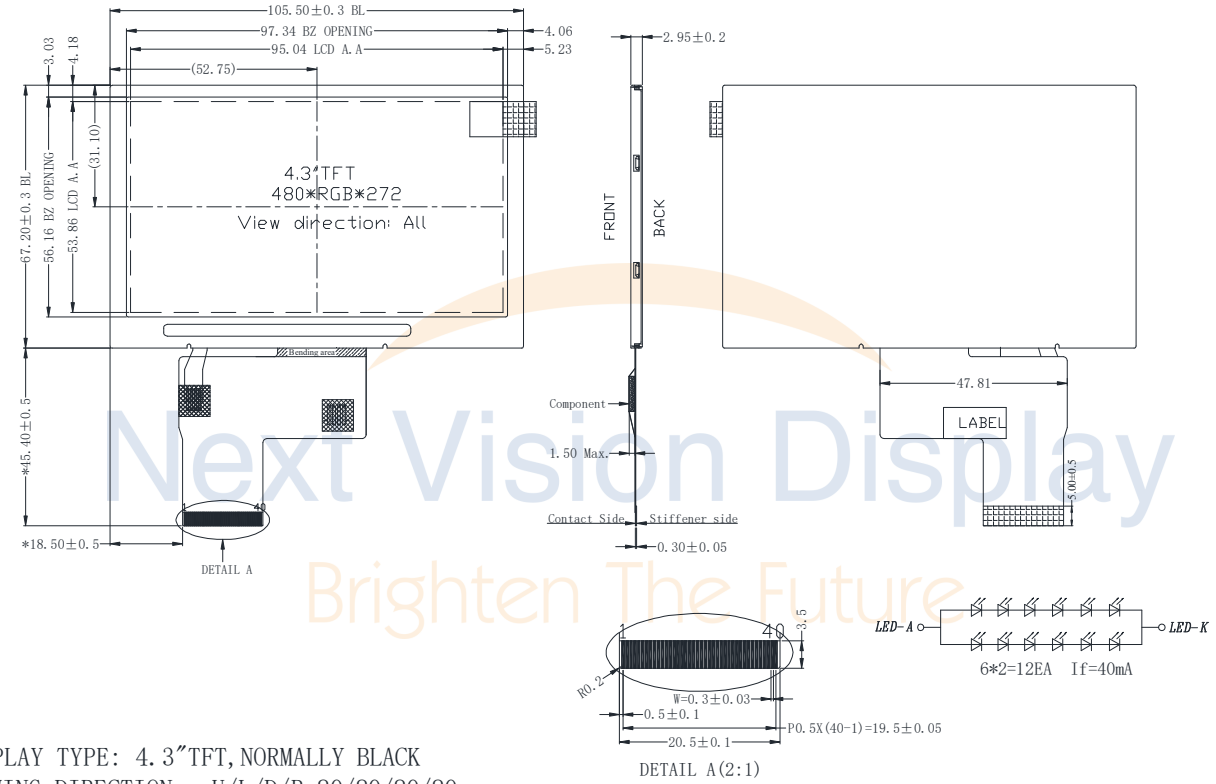
Note 1: Color tune is slightly changed by temperature and driving voltage.

Note 2: Without FPC and Solder .

Outline Drawing

ALL PAGES OF THIS VERSION APPROVED			
SIGNATURE:		DATE:	

REV.	Description	Date
01	New released	



PIN FUCTION	
PIN	SYMBOL
1	VLED-
2	VLED+
3	GND
4	VDD
5	R0
6	R1
7	R2
8	R3
9	R4
10	R5
11	R6
12	R7
13	G0
14	G1
15	G2
16	G3
17	G4
18	G5
19	G6
20	G7
21	B0
22	B1
23	B2
24	B3
25	B4
26	B5
27	B6
28	B7
29	GND
30	PCLK
31	DISP
32	HSYNC
33	VSYNC
34	DE
35	NC
36	GND
37	XR
38	YD
39	XL
40	YU

NOTES:

1. DISPLAY TYPE: 4.3"TFT,NORMALLY BLACK
2. VIEWING DIRECTION : U/L/D/R 80/80/80/80
3. TFT Driver IC : SC7283
4. Top : -30° C ~ 85° C, Tst : -30° C ~ 85° C
5. GENERAL TOLERANCE: ±0.2
6. LCM Luminance:LED/1000cd/㎡ (Typical)

特殊工艺：

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GENERAL TOL 0.30	ALL UNITS: MM	DATE	MODEL NUMBER : NT043-N001ML		SHEET: 1 OF 1
DWN:					
CHK:					DATE:
APP:			DO NOT SCALE THIS DRAWING.	PROJECTION	

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Electrical Specifications

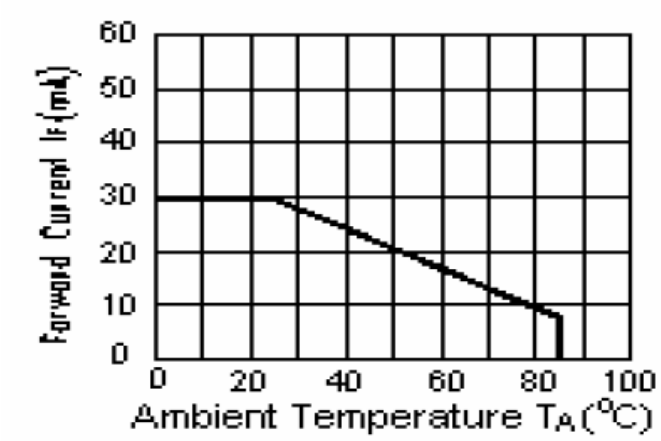
1 Electrical characteristics(Vss=0V ,Ta=25℃)

Parameter		Symbol	Condition	Min	Typ	Max	Unit	Note
Power supply		VDD	Ta=25℃	3.0	3.3	3.6	V	
Input voltage	'H'	V_{IH}	Ta=25℃	0.7*VDD	-	VDD	V	
	'L'	V_{IL}	Ta=25℃	0	-	0.3*VDD	V	

2 LED backlight specification(VSS=0V ,Ta=25℃)

Item	Symbol	Condition	Min	Typ	Max	Unit	Note
Supply voltage	Vf	If=40mA	16.2	18.0	19.8	V	
Uniformity	ΔBp	If=40mA	75	80	-	%	
Life Time	time	If=40mA	30K	50K		hours	1

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Note 1: Brightness to be decreased to 50% of the initial value at ambient temperature TA=25℃

3 Interface signals

Pin No.	Symbol	I/O	Function
1	VLED-	P	LED back light(Cathode)
2	VLED+	P	LED back light(Anode)
3	GND	P	Ground.
4	VDD	P	Power supply
5-12	R0~R7	I	Red data bus
13-20	G0~G7	I	Green data bus
21-28	B0~B7	I	Blue data bus
29	GND	P	Ground.
30	DCLK	I	Data clock
31	DISP	I	Standby mode select pin
32	HSYNC	I	Line sync signal
33	VSYNC	I	Frame sync signal
34	DE	I	Data enable pin
35	NC	-	No connection.
36	GND	P	Ground.
37	XR	I	RTP PIN,no use please NC
38	YD	I	
39	XL	I	
40	YU	I	

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Optical Characteristics

Item	Symbol		Condition	Min.	Typ.	Max.	Unit	Note
Brightness	Bp		θ=0° Φ=0°	-	1000	-	Cd/m^2	1
Uniformity	⊿Bp			75	80	-	%	1,2
Viewing Angle	3:00		Cr≥10	-	80	-	Deg	3
	6:00			-	80	-		
	9:00			-	80	-		
	12:00			-	80	-		
Contrast Ratio	Cr		θ=0° Φ=0°	640	800	-	-	4
Response Time	$T_{r+}T_f$			-	30	40	ms	5
Color of CIE Coordinate	W	x	θ=0° Φ=0°	-	0.324	-	-	1,6
		y			0.372		-	
	R	x			0.629		-	
		y			0.326		-	
	G	x			0.337		-	
		y			0.546		-	
	B	x			0.136		-	
		y			0.143		-	
NTSC Ratio	S			45	50	-	%	

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