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SPECIFICATION

CUSTOMER ：

MODULE NO.: WF43-480272G#008-FC

General Specification

Item	Dimension	Unit
Dot Matrix	480 x RGBx272(TFT)	dots
Module dimension	106.7 x 69.6 x 5.9	mm
Active area	95.04 x 53.856	mm
Dot pitch	0.066 x 0.198	mm
LCD type	TFT, Negative, Transmissive	
View Direction	12 o'clock	
Gray Scale Inversion Direction	6 o'clock	
Backlight Type	LED,Normally White	
Controller IC	SSD1963	
Interface	Digital 8080 family MPU	

Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	T_{OP}	-20	—	+70	℃
Storage Temperature	T_{ST}	-30	—	+80	℃

Electrical Characteristics

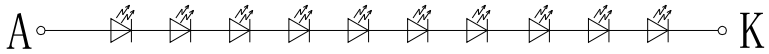
Operating conditions:

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For Logic	VDD	—	3.1	3.3	3.5	V

LED driving conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit	Remark
LED current		-	20	-	mA	
Power Consumption			640	680	mW	
LED voltage	VBL+	30	32	34	V	Note 1
LED Life Time		-	50,000	-	Hr	Note 2,3,4

Note 1 : There are 1 Groups LED



Note 2 : Ta = 25 ℃

Note 3 : Brightess to be decreased to 50% of the initial value

Note 4 : The single LED lamp case

DC Characteristics

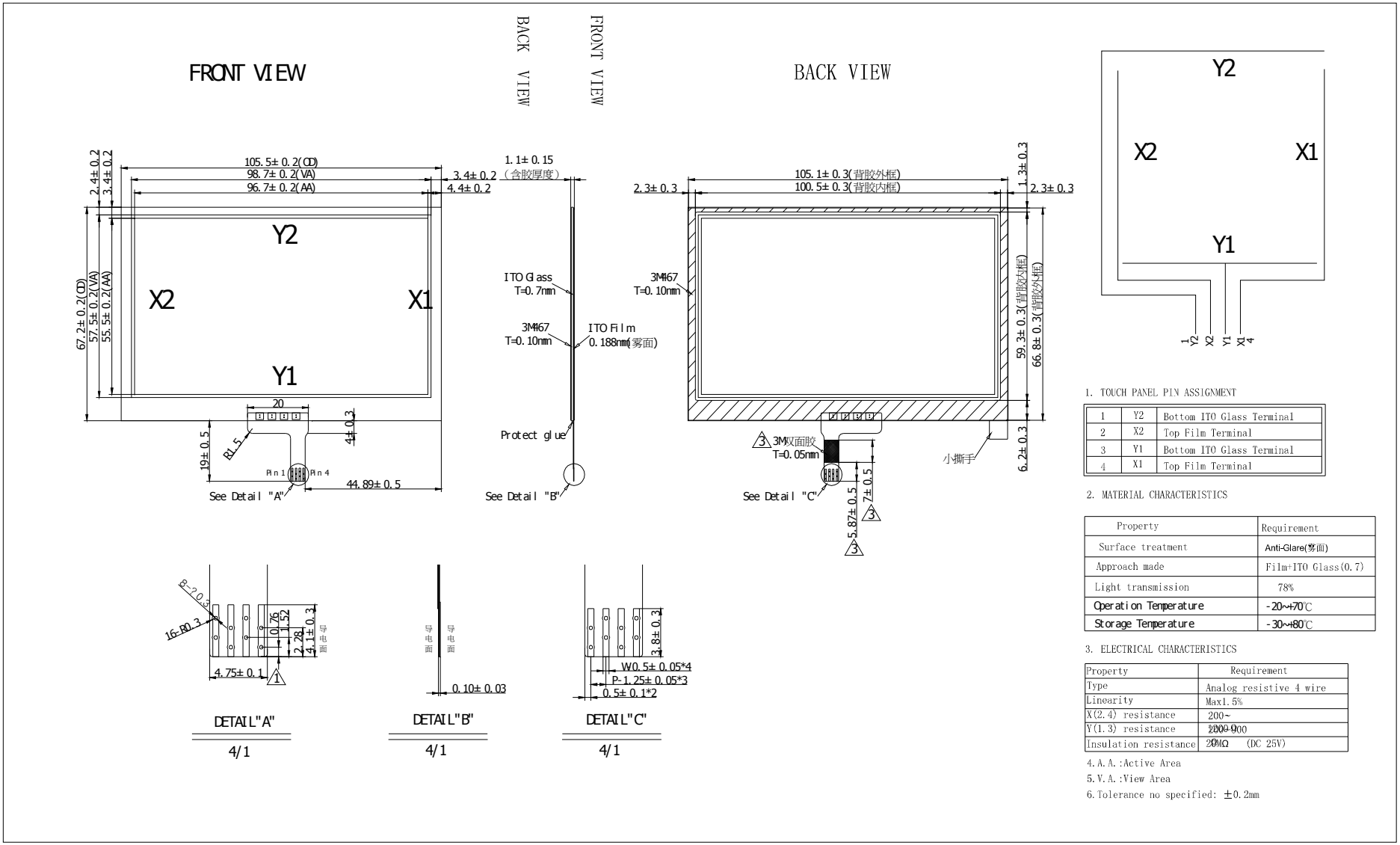
Parameter	Symbol	Rating			Unit	Condition
		Min	Typ	Max		
Low level input voltage	V_{IL}	0	-	0.3 VDD	V	
Hight level input voltage	V_{IH}	0.7 VDD	-	VDD	V	

Interface

LCM PIN Definition

Pin	Symbol	I/O	Function	Remark
1	GND		Systen ground pin of the IC. Connect to systen ground.	
2	VDD		Power Supply : +3.3V	
3	BL E		Backlight control signal , H: On \ L:Off	
4	D/C		Data/Command select	
5	WR		Write strobe signal	
6	RD		Read strobe signal	
7	D0		Data bus	
8	D1		Data bus	
9	D2		Data bus	
10	D3		Data bus	
11	D4		Data bus	
12	D5		Data bus	
13	D6		Data bus	
14	D7		Data bus	
15	D8		Data bus	
16	D9		Data bus	
17	D10		Data bus	
18	D11		Data bus	
19	D12		Data bus	
20	D13		Data bus	
21	D14		Data bus	
22	D15		Data bus	
23	NC		No connection	
24	NC		No connection	
25	CS		Chip select	
26	RST		Hardware reset	
27	NC		No connection	
28	X1		Right electrode	
29	Y1		Bottom electrode	
30	X2		Left electrode	
31	Y2		Top electrode	
32	DIP ON		Display control H: On \ L:Off	

Touch panel Information



1. TOUCH PANEL PIN ASSIGNMENT

1	Y2	Bottom ITO Glass Terminal
2	X2	Top Film Terminal
3	Y1	Bottom ITO Glass Terminal
4	X1	Top Film Terminal

2. MATERIAL CHARACTERISTICS

Property	Requirement
Surface treatment	Anti-Glare(雾面)
Approach made	Film+ITO Glass(0.7)
Light transmission	78%
Operation Temperature	-20~+70℃
Storage Temperature	-30~+80℃

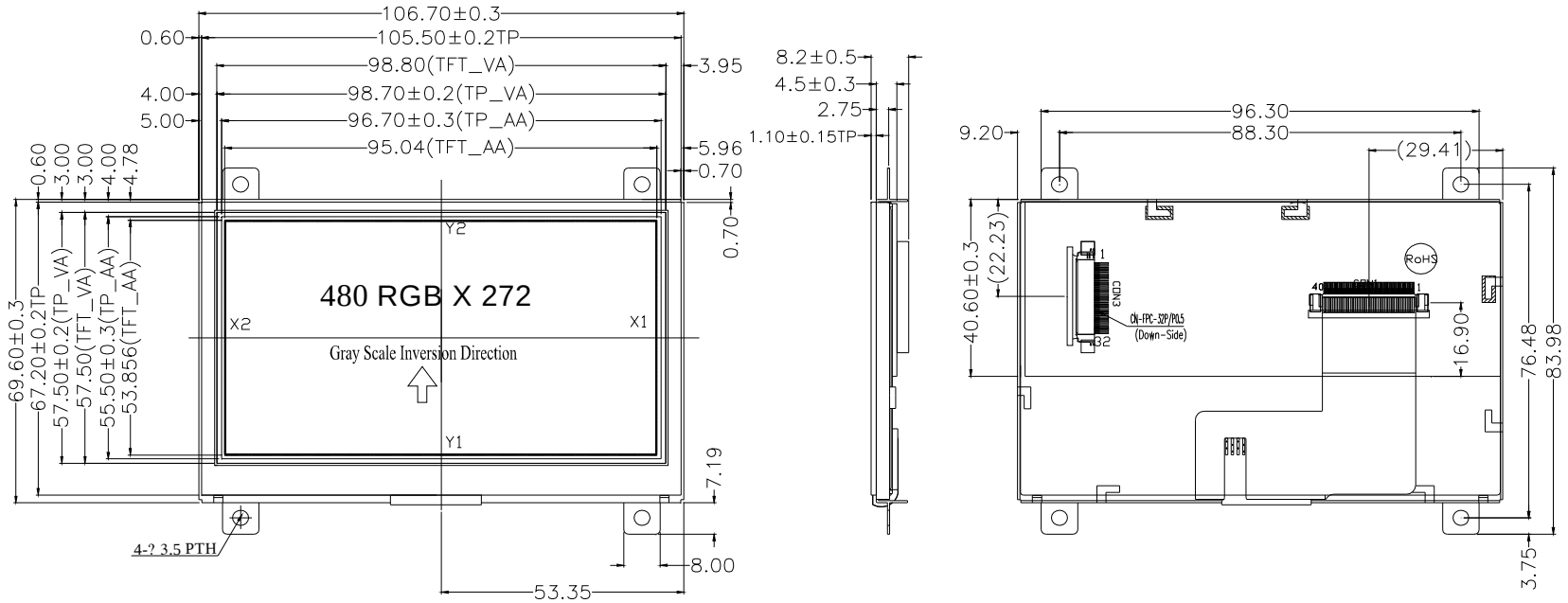
3. ELECTRICAL CHARACTERISTICS

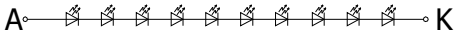
Property	Requirement
Type	Analog resistive 4 wire
Linearity	Max1.5%
X(2.4) resistance	200~900Ω
Y(1.3) resistance	200~900Ω
Insulation resistance	20MΩ (DC 25V)

4. A.A.:Active Area
5. V.A.:View Area
6. Tolerance no specified: ±0.2mm

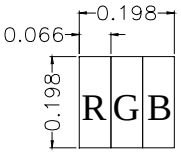
Contour Drawing

PIN	DESC
1	GND
2	VDD
3	BL_E
4	D/C
5	WR
6	RD
7	D0
8	D1
9	D2
10	D3
11	D4
12	D5
13	D6
14	D7
15	D8
16	D9
17	D10
18	D11
19	D12
20	D13
21	D14
22	D15
23	NC
24	NC
25	CS
26	RST
27	NC
28	X1
29	Y1
30	X2
31	Y2
32	DIP ON

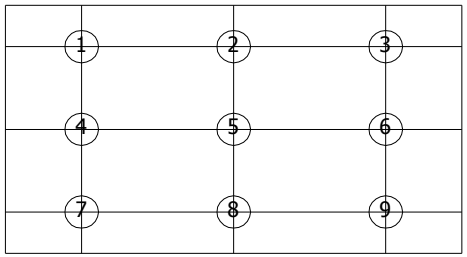




CIRCUIT DIAGRAM(10Dice ち



SCALE 1:100



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