

深圳市优智景科技有限公司

Shen zheng Shi You Zhi Jing Technologies Co., Ltd

产品承认书 Specification

型号名称(LCM CODE) : UN280286-B-V01

描述(Description) : 2.8" a-Si TFT 液晶显示屏

客户名称:优智景

项目号:2.8 吋

客户确认 CUSTOMER APPROVED	
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东莞市深显光电有限公司

APPROVED BY	CHECK BY	PREPARED BY

深圳市优智景科技有限公司

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■ Features

Item	Standard Value
Display Type	240(R+G+B) * 320 Dots (65/262K)
LCD Type	Active matrix ,a-TFT, Normally white, Transmissive
Viewing Direction	ALL O'clock
Backlight	4 LED White Color
Interface	4 line SPI 1 DATE LANE
Controller/driver IC	BOE/IPS+7789P3

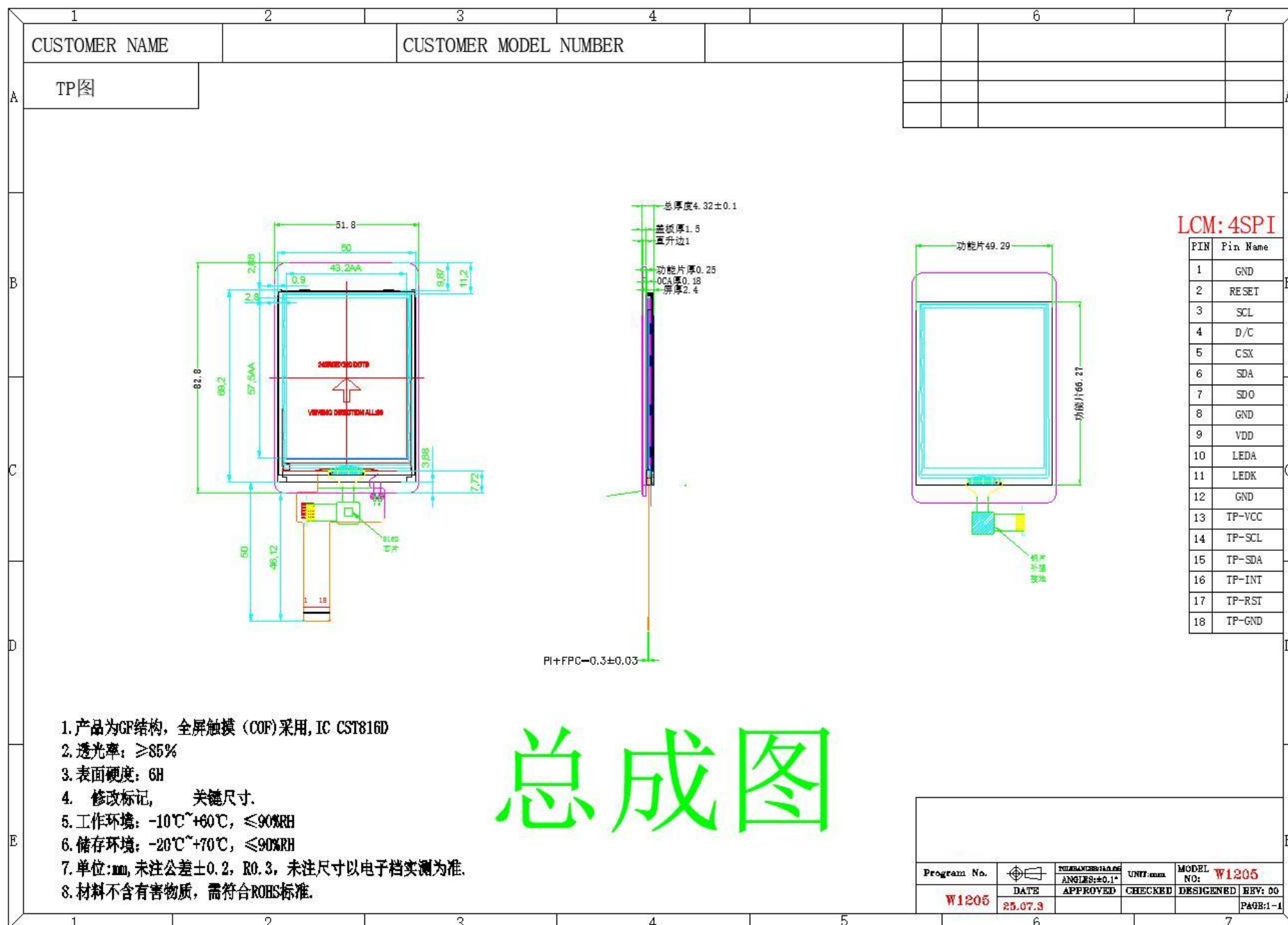
■ Mechanical Specifications

Item	Standard Value	Unit
Outline Dimension	50.00(W) x 69.20(L) x2.3(T) <Exclude FPC>	mm
Active Area	43.20 (W) x57.50(W)	mm
Pixel pitch	0.153 (L) x0.153 (W)	mm

Note: For detailed information please refer to LCM drawing

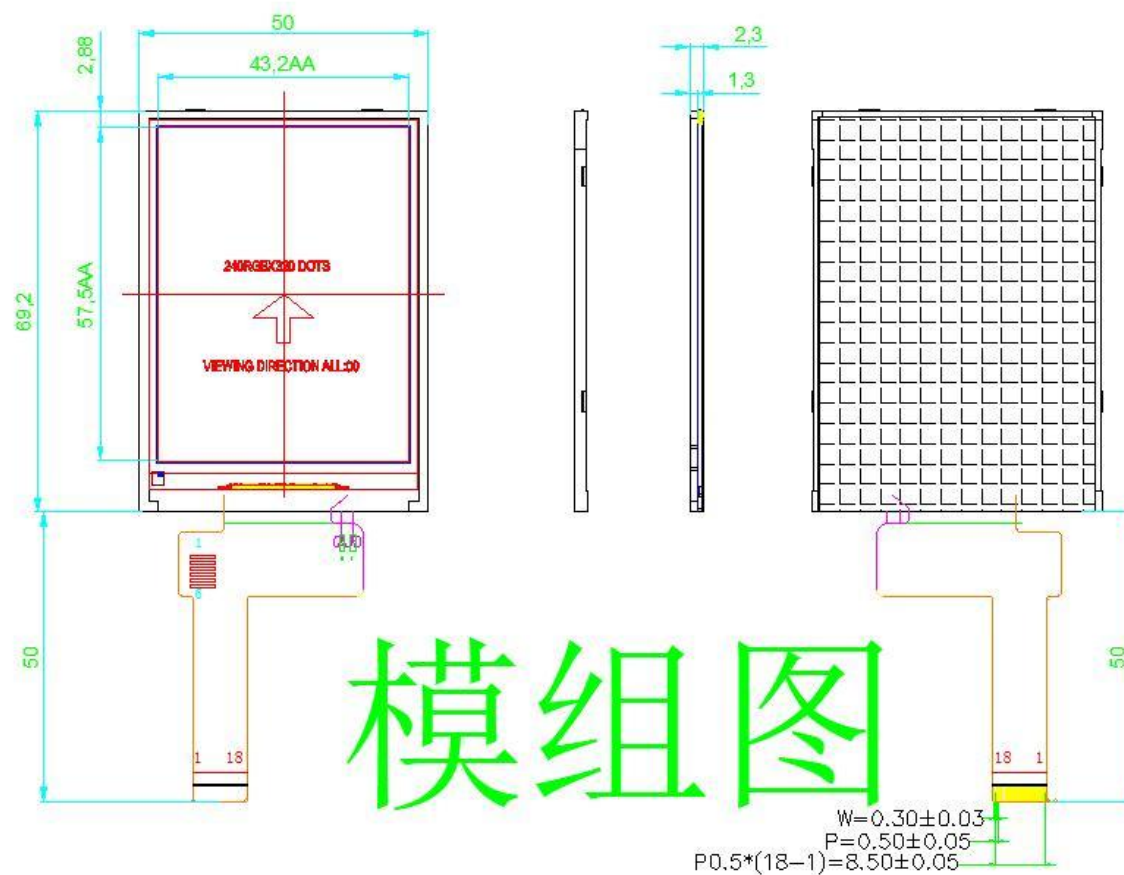
■ Absolute Maximum Ratings

Item	Symbol	Condition	Min.	Max.	Unit
Power Supply Voltage	V _{DD}	-	-0.3	4.6	V
LCD Driver Supply Voltage	V _{GH-VSS}	-	-0.3	18.5	V
Input voltage	V _{in}		-0.3	4.6	V
Operating Temperature	T _{OP}	-	-20	+70	°C
Storage Temperature.	T _{ST}	-	-30	+80	°C
Storage Humidity	H _D	Ta < 40 °C	-	90	%RH



LCM: 4SPI

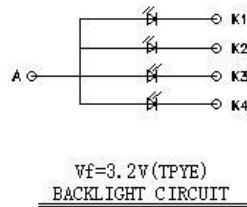
PIN	Pin Name
1	GND
2	RESET
3	SCL
4	D/C
5	CSX
6	SDA
7	SDO
8	GND
9	VDD
10	LEDA
11	LEDK
12	GND
13	TP-VCC
14	TP-SCL
15	TP-SDA
16	TP-INT
17	TP-RST
18	TP-GND



模组图

NOTES:

1. DISPLAY TYPE: 2.8" TFT, TRANSMISSIVE
2. DRIVER IC: 7789P3 & Compatible LDI
3. VIEWING DIRECTION: ALL 0' clock
4. BACKLIGHT: 4 CHIP-WHITE LED
5. BL INPUT CURRENT: 80 mA
6. OPERATING TEMP: -20° C ~ +70° C
7. STORAGE TEMP: -30° C ~ +80° C
8. GENERAL TOLERANCE: ±0.2
9. The product should measure up with "RoHs" standard



DRAWN BY:					
CHECK BY:				SCALE: 1:1	MATERIAL:
APPROVER:			UNIT: mm	TOLERANCE: ±0.2	PAGE: 1 of 1

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Interface Pin Description

No.	SYMBOL	FUNCTION
1	GND	POWER GROUND
2	RESET	Chip reset signal (“L” →Active)
3	SCL	This pin is used serial interface clock
4	D/C	Data / Command select signal(“L” register index; ” H” data)
5	CSX	Chip select signal (“L” Active)
6	SDA	DATA BUS
7	SDO	SDO
8	GND	POWER GROUND
9	VDD	POWER SUPPLY FOR LCD 2.8V
10	LEDA	BACK LIGHT Anode
11	LEDK	BACKLIGHT Cathode
12	GND	POWER GROUND
13	TP-VCC	POWER SUPPLY FOR LCD 2.8V
14	TP-SCL	This pin is used serial interface clock
15	TP-SDA	DATA BUS
16	TP-INT	Data / Command select signal(“L” register index; ” H” data)
17	TP-RST	Chip reset signal (“L” →Active)
18	TP-GND	POWER GROUND

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■ Backlight & LED Characteristics

Maximum Ratings

Item	Symbol	Conditions	Min.	Max.	Unit
Forward Current	IF	Ta =25℃	-	20 (1 LED)	mA
Reverse Voltage	VR	Ta =25℃	-	5	V
Power Dissipation	PO	Ta =25℃	-	320	mW
Operating Temperature	T _{OP}	-	-20	70	℃
Storage Temperature	T _{ST}	-	-30	80	℃
Solder Temp. for 3 Seconds	-	-	-	260	℃

Electrical / Optical Characteristics

GND(VSS) = 0V, Ta =25℃

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward Voltage	VF	IF= 20mA*4	2.8	3.3	3.5	V
Reverse Current	IR	VR= 5V	-	-	50	uA
Average Brightness (without LCD)	IV	IF= 20mA*4	3500	3700	-	cd/m ²
CIE Color Coordinate (without LCD)	X	IF= 20mA*4	0.283	-	0.330	—
	Y		0.276	-	0.328	
Color	WHITE					

*1 This value will be changed while mass production.