

SHENZHEN BRILLIANT CRYSTAL TECHNOLOGIC CO.,LTD.

**深圳市彩晶科技有限公司**

The specification for the following models :

**CM12864-12BLWAA-5****CM12864-12FLWAA-5**

<b>PROPOSED BY</b>		<b>APPROVED</b>
Design	Approved	

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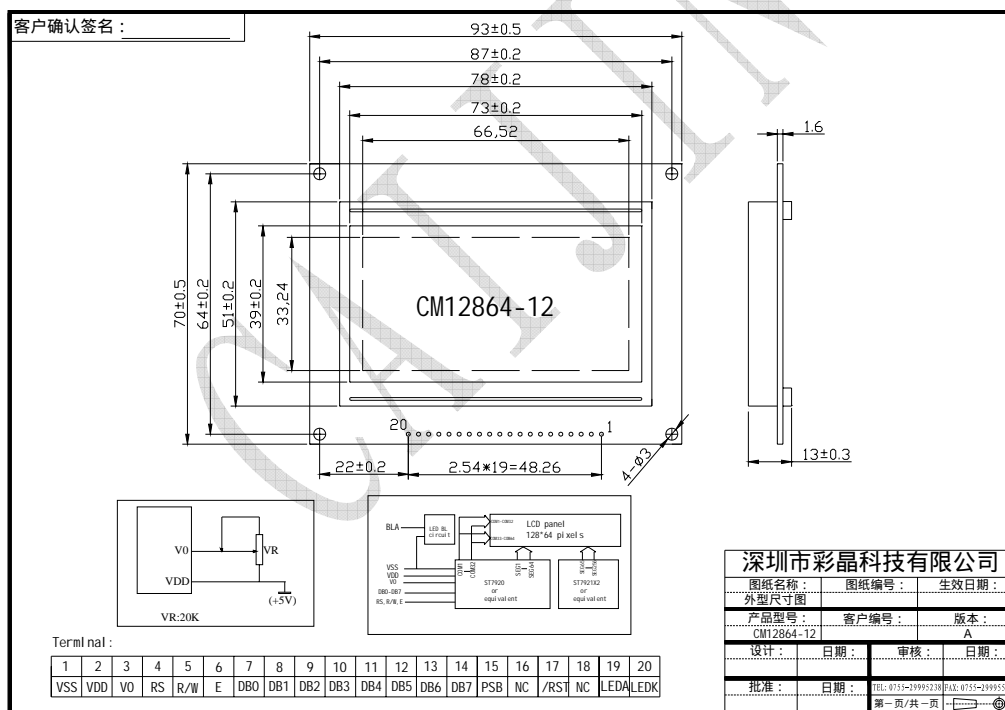
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### 1. Mechanical Specification

ITEM	STANDARD VALUE		UNIT
Dot Matrix	128 X 64 DOTS		--
MODULE DIMENSION	93.0 (W) X 70.0 (H) X 13.0 (T)		mm
VIEWING DISPLAY AREA	73.0 (W) X 39.0 (H)		mm
ACTIVE DISPLAY AREA	66.52 (W) X 33.24 (H)		mm
DOT SIZE	0.48 (W) X 0.48 (H)		mm
DOT PITCH	0.04 (W) X 0.04 (H)		mm
DRIVE METHOD	1/64 Duty , 1/6 BIAS		
VIEWING DIRECTION	12'clock		
LED Backlight Color	White		
Backlight Input	DC +5.0V	V	mA
LED backlight current	35		mA
Backlight Half-Lift Time	35,000		HR.
INPUT VOLAGE	DC +5.0V	V	mA
LCD DRIVER	ST7920		
Weight	77g		

### 2. Mechanical Diagram



## 3. Parallel Interface Pin Connections

NO	SYMBOL	LEVEL	FUNCTION
1	VSS	0	Power Ground
2	VDD	5.0V	Power Supply
3	V0	--	Supply Voltage For LCD
4	RS	0	H: Data L: Instruction Code
5	R/W	0	H: Read L: Write
6	E	0	Enable Signal
7	DB0	I	DATA BUS
8	DB1	I	DATA BUS
9	DB2	I	DATA BUS
10	DB3	I	DATA BUS
11	DB4	I	DATA BUS
12	DB5	I	DATA BUS
13	DB6	I	DATA BUS
14	DB7	I	DATA BUS
15	PSB	0	H: Parallel Mode
16	NC		
17	/RST	0	Reset Signal
18	NC	--	
19	LEDA	--	LED(+5V)
20	LEDK	--	LED(0V)

## 4. Serial Interface Pin Connections

NO	SYMBOL	LEVEL	FUNCTION
1	VSS	0	Power Ground
2	VDD	5.0V	Power Supply
3	V0	-	Supply Voltage For LCD
4	CS	0	Chip selects signal
5	SID	0	Serial data input
6	SCLK	0	Serial clock input
7	DB0	-	NC
8	DB1	-	NC
9	DB2	-	NC
10	DB3	-	NC

11	DB4	-	NC
12	DB5	-	NC
13	DB6	-	NC
14	DB7	-	NC
15	PSB	0	L: Serial Mode
16	NC		
17	/RST	0	Reset Signal
18	NC	--	
19	LEDA	--	LED(+5V)
20	LEDK	--	LED(0V)

### 5. Absolute Maximum Ratings

ITEM	SYMBOL	MIN.	TYPE	MAX.	UNIT
OPERATING TEMPERATURE	TOP	0/-20	--	+50/+70	
STORAGE TEMPERATURE	TST	-10/-30	--	+60/+80	
INPUT VOLTAGE	VI	4.75	5.0	5.25	V
SUPPLY VOLTAGE FOR LOGIC	VDD-VSS	--	5.0	5.5	V
SUPPLY VOLTAGE FOR LCD	VDD-VO	--	--	5.0	V
STATIC ELECTRICITY	Be sure that you are grounded when handling LCM.				