

SHENZHEN BRILLIANT CRYSTAL TECHNOLOGIC CO.,LTD.

**深 圳 市 彩 晶 科 技 有 限 公 司**

The specification for the following models :

**CM12832-2SLYAA-5**

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

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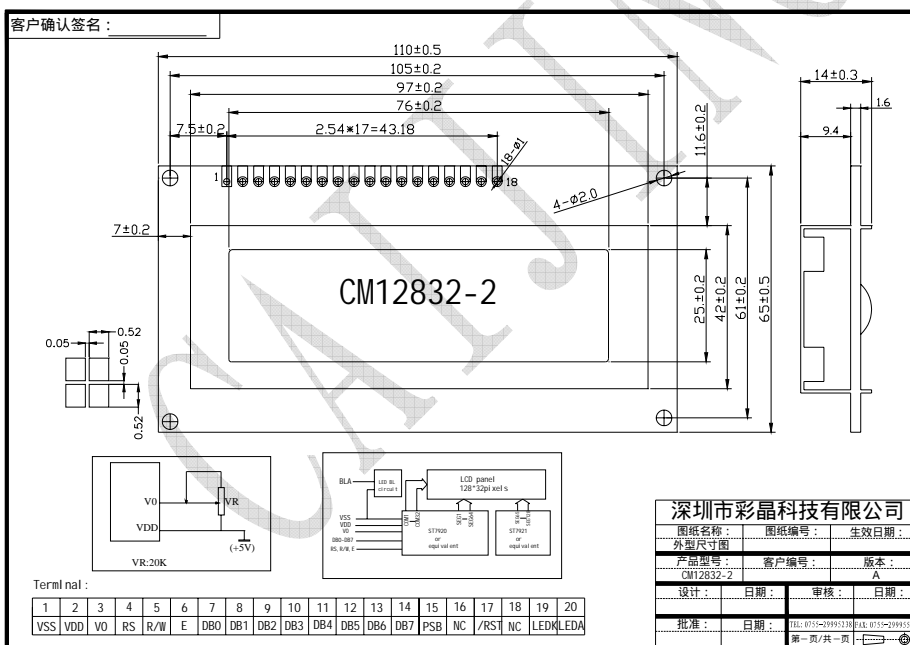
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### 1. Mechanical Specification

ITEM	STANDARD VALUE			UNIT
Dot Matrix	128 X 32 DOTS			--
MODULE DIMENSION	110.0 (W) X 65.0 (H) X 14.0 (T)			mm
VIEWING DISPLAY AREA	76.0 (W) X 25.2 (H)			mm
ACTIVE DISPLAY AREA	66.52 (W) X 33.24 (H)			mm
DOT SIZE	0.52 (W) X 0.52 (H)			mm
DOT PITCH	0.05 (W) X 0.05 (H)			mm
DRIVE METHOD	1/32 Duty , 1/6 BIAS			
VIEWING DIRECTION	12'clock			
LED Backlight Color	Yellow Green			
Backlight Input	DC +5.0V	V	150	mA
LED backlight current	150			mA
Backlight Half-Lift Time	35,000			HR.
INPUT VOLAGE	DC +5.0V	V	1	mA
LCD DRIVER	ST7920			
Weight	81g			

### 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 handing LCM.				