

SHENZHEN BRILLIANT CRYSTAL TECHNOLOGIC INDUSTRIAL CO.,LTD.

深圳市彩晶科技实业有限公司

The specification for the following models:

CM12832-4SLYA

CM12832-4BLWA

CM12832-4FLWA

PROPOSED BY		APPROVED
Design	Approved	

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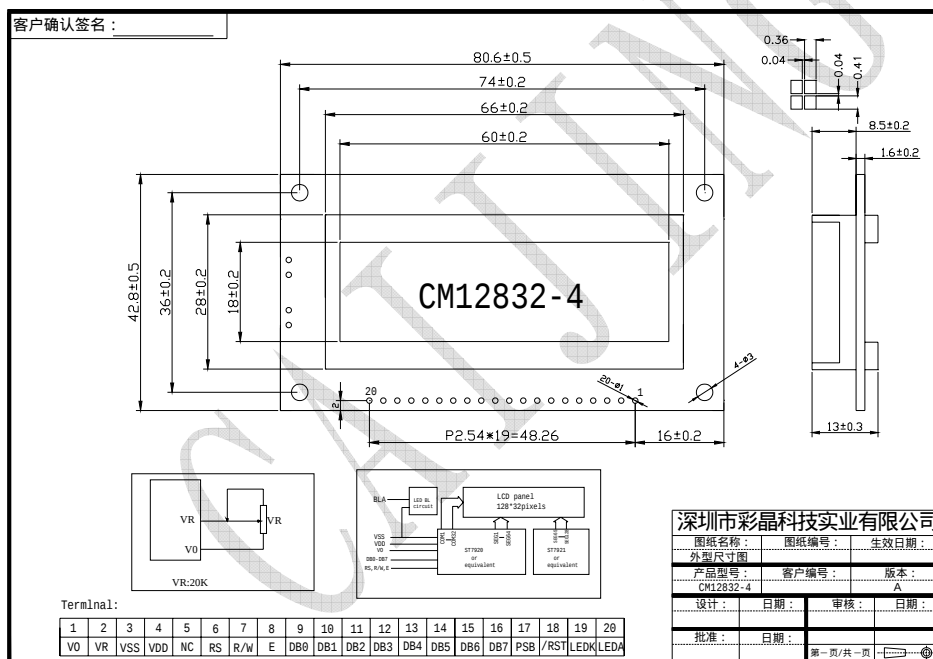
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1. Mechanical Specification

ITEM	STANDARD VALUE			UNIT
Dot Matrix	128 X 32 DOTS			--
MODULE DIMENSION	80.6 (W) X 42.8 (H) X 13.0 (T)			mm
VIEWING DISPLAY AREA	60.0 (W) X 18.0 (H)			mm
ACTIVE DISPLAY AREA	48.75 (W) X 14.35 (H)			mm
DOT SIZE	0.36 (W) X 0.41 (H)			mm
DOT PITCH	0.04 (W) X 0.04 (H)			mm
DRIVE METHOD	1/32 Duty , 1/6 BIAS			
VIEWING DIRECTION	6 O'clock			
LED Backlight Color	Yellow Green			
Backlight Input	DC +5.0V	V		mA
Backlight Half-Lift Time	35,000			HR.
INPUT VOLTAGE	DC +5.0V	V	1	mA
LCD DRIVER	ST7920			

2. Mechanical Diagram



3. Interface Pin Connections

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

4. 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	6.5	V
SUPPLY VOLTAGE FOR LCD	VDD-VO	--	--	6.5	V
STATIC ELECTRICITY	Be sure that you are grounded when handing LCM.				