

SHENZHEN BRILLIANT CRYSTAL TECHNOLOGIC CO.,LTD.

**深 圳 市 彩 晶 科 技 有 限 公 司**

The specification for the following models :

**CM12032-1BLWAA-5****CM12032-1FLWAA-5**

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

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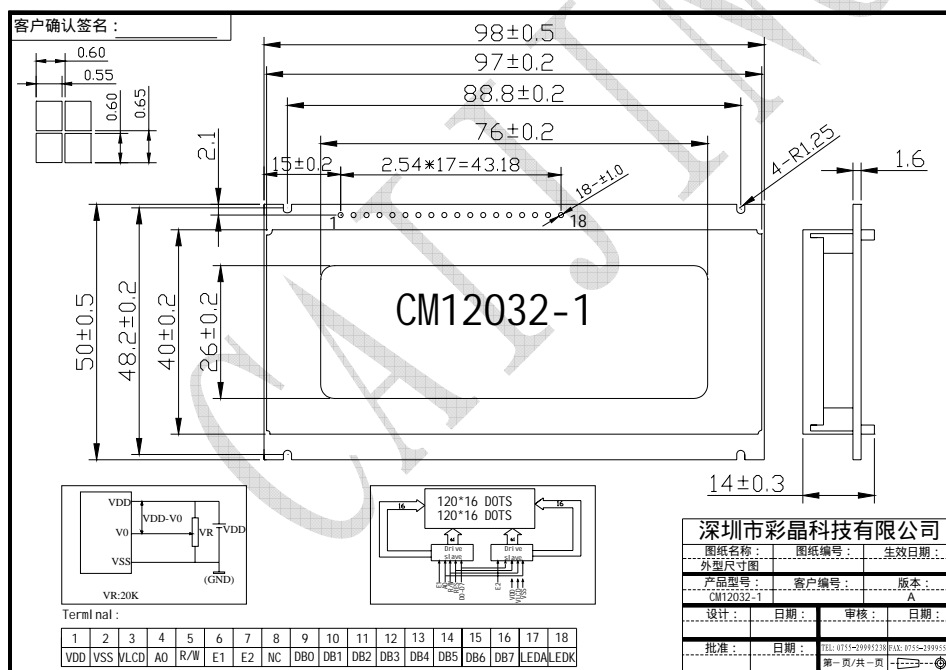
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1. Mechanical Specification

ITEM	STANDARD VALUE			UNIT
Dot Matrix	120 X 32 DOTS			--
MODULE DIMENSION	98.0 (W) X 50.0 (H) X 14.0 (T)			mm
VIEWING DISPLAY AREA	76.0 (W) X 26.0 (H)			mm
ACTIVE DISPLAY AREA	71.95 (W) X20.75 (H)			mm
DOT SIZE	0.55 (W) X 0.6 (H)			mm
DOT PITCH	0.05 (W) X 0.05 (H)			mm
DRIVE METHOD	1/32 Duty , 1/6 BIAS			
VIEWING DIRECTION	6 O'clock			
LED Backlight Color	White			
Backlight Input	DC +5.0V	V		mA
LED backlight current	20			mA
Backlight Half-Lift Time	35,000			HR.
INPUT VOLAGE	DC +5.0V	V	1	mA
LCD DRIVER	1520			
Weight				

2. Mechanical Diagram



## 3. Interface Pin Connections

NO	SYMBOL	LEVEL	FUNCTION
1	VSS	0V	Power Ground
2	VDD	5V	Power Supply
3	VLCD	0 +5V	LCD Drive Voltage
4	A0	H/L	D/I="H" , mean DB7 ~ DB0 is Data D/I="L" , mean DB7 ~ DB0 is command
5	R/W	H/L	Selection of READ or WRITE
6	E1	H/L	Enable signal of first IC
7	E2	H/L	Enable signal of second IC
8	NC		
9	DB0	H/L	DATA BUS
10	DB1	H/L	DATA BUS
11	DB2	H/L	DATA BUS
12	DB3	H/L	DATA BUS
13	DB4	H/L	DATA BUS
14	DB5	H/L	DATA BUS
15	DB6	H/L	DATA BUS
16	DB7	H/L	DATA BUS
17	LEDA	--	LED(+5V)
18	LEDK	--	LED(0V)

## 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	5.5	V
SUPPLY VOLTAGE FOR LCD	VDD-VO	--	--	5.0	V
STATIC ELECTRICITY	Be sure that you are grounded when handling LCM.				