

SHENZHEN BRILLIANT CRYSTAL TECHNOLOGIC CO.,LTD.

**深圳市彩晶科技有限公司**

The specification for the following models :

**CM19264-1SLDAA-5**

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

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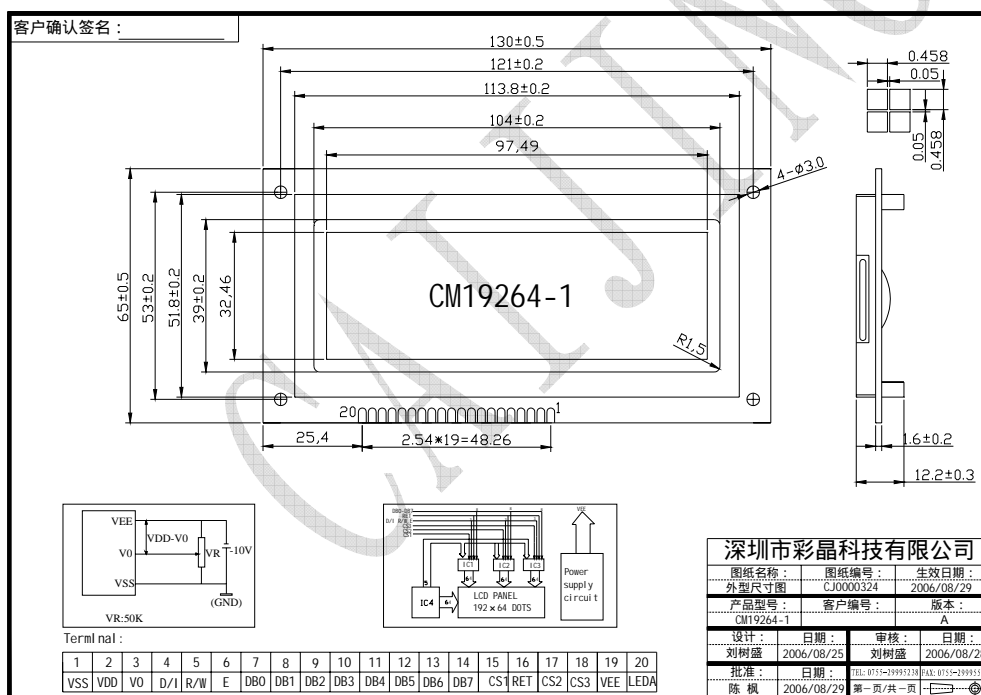
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### 1. Mechanical Specification

| ITEM                     | STANDARD VALUE                  |   | UNIT |
|--------------------------|---------------------------------|---|------|
| Dot Matrix               | 192 X 64 DOTS                   |   | --   |
| MODULE DIMENSION         | 130.0 (W) X 65.0 (H) X 12.2 (T) |   | mm   |
| VIEWING DISPLAY AREA     | 104.0 (W) X 39.0 (H)            |   | mm   |
| ACTIVE DISPLAY AREA      | 97.49 (W) X 32.46 (H)           |   | mm   |
| DOT SIZE                 | 0.458 (W) X 0.458 (H)           |   | mm   |
| DOT PITCH                | 0.05 (W) X 0.05 (H)             |   | mm   |
| DRIVE METHOD             | 1/64 Duty , 1/9 BIAS            |   |      |
| VIEWING DIRECTION        | 12'clock                        |   |      |
| LED Backlight Color      | Yellow Green                    |   |      |
| Backlight Input          | DC +5.0V                        | V | mA   |
| LED backlight current    | 50                              |   | mA   |
| Backlight Half-Lift Time | 35,000                          |   | HR.  |
| INPUT VOLAGE             | DC +5.0V                        | V | mA   |
| LCD DRIVER               | KS0108                          |   |      |
| Weight                   | 108g                            |   |      |

### 2. Mechanical Diagram



## 3.Interface Pin Connections

| NO | SYMBOL | LEVEL   | FUNCTION  |
|----|--------|---------|---|
| 1  | VSS    | 0       | Power Ground  |
| 2  | VDD    | 5.0V    | Power Supply  |
| 3  | V0     | -3V -5V | Voltage for LCD   |
| 4  | D/I    | H/L     | D/I= " H ", DB7 DB0 is display DATA<br>D/I= " L ", DB7 DB0 is command                                   |
| 5  | R/W    | H/L     | R/W= " H ", E= " H " data is read to DB7 DB0<br>R/W= " L ", E= " H L " data is written to IC            |
| 6  | E      | H/L     | R/W= " L ", DB7 DB0 is locked at its falling edge.R/W=<br>" H ", E= " H " DDRAM data is read to DB7 DB0 |
| 7  | DB0    | H/L     | DATA BUS  |
| 8  | DB1    | H/L     | DATA BUS  |
| 9  | DB2    | H/L     | DATA BUS  |
| 10 | DB3    | H/L     | DATA BUS  |
| 11 | DB4    | H/L     | DATA BUS  |
| 12 | DB5    | H/L     | DATA BUS  |
| 13 | DB6    | H/L     | DATA BUS  |
| 14 | DB7    | H/L     | DATA BUS  |
| 15 | CS1    | L       | Selec IC1   |
| 16 | RST    | L       | Chip Reset signal   |
| 17 | CS2    | L       | Selec IC2   |
| 18 | CS3    | L       | Selec IC3   |
| 19 | VEE    | -5V     | Negative Voltage for LCD driver   |
| 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 VOLAGE             | 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  | --      | --   | 9.8     | V    |
| STATIC ELECTRICITY       | Be sure that you are grounded when handing LCM. |         |      |         |      |