

SHENZHEN BRILLIANT CRYSTAL TECHNOLOGIC CO.,LTD.

深圳市彩晶科技有限公司

The specification for the following models :

CM12864-20BLWAA-5**CM12864-20BLWAA-5**

| PROPOSED BY | | APPROVED |
|--------------------|----------|-----------------|
| Design | Approved | |
| | | |

TEL:+86-755-29995238

FAX:+86-755-29459900

Http://www.cj86.com

E-mail:szcj86@gmail.com

Http://www.szcm-lcd.com

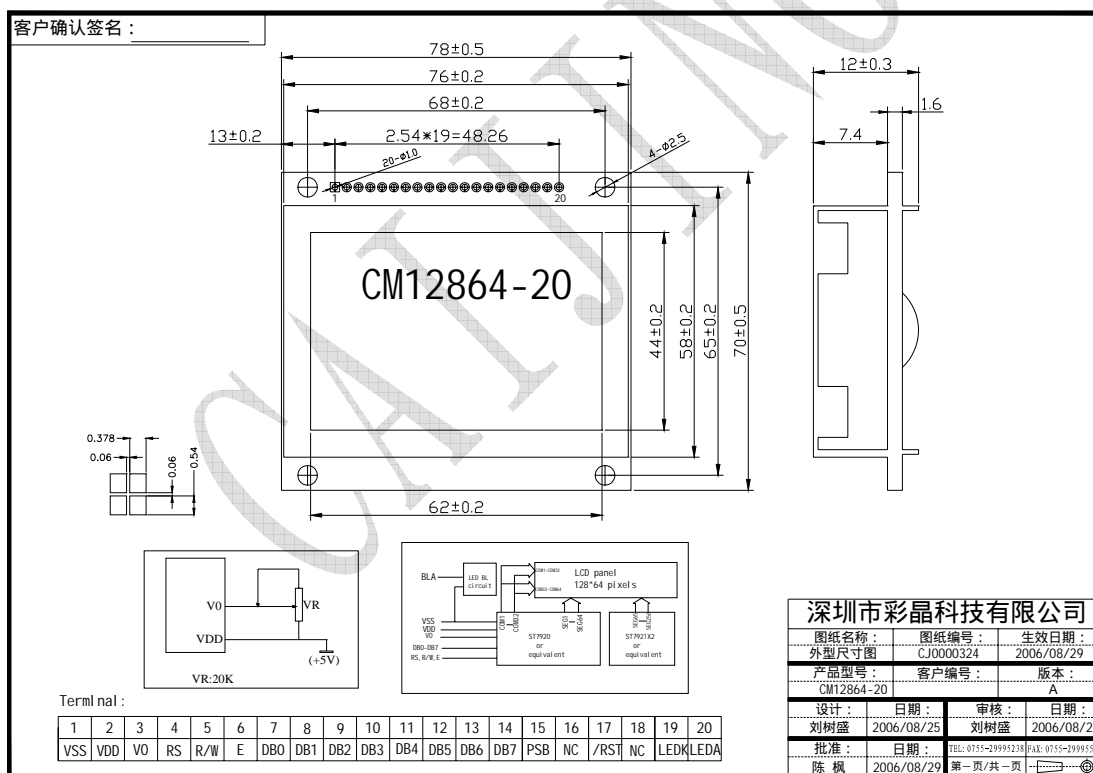
E-mail:szcj86@hotmail.com

地址：深圳市南山区西丽留仙洞工业区顺和达厂区 B 栋

1. Mechanical Specification

| ITEM | STANDARD VALUE | | UNIT |
|--------------------------|--------------------------------|---|------|
| Dot Matrix | 128 X 64 DOTS | | -- |
| MODULE DIMENSION | 78.0 (W) X 70.0 (H) X 12.0 (T) | | mm |
| VIEWING DISPLAY AREA | 62.0 (W) X 44.0 (H) | | mm |
| ACTIVE DISPLAY AREA | 56.28 (W) X 38.36 (H) | | mm |
| DOT SIZE | 0.378 (W) X 0.54 (H) | | mm |
| DOT PITCH | 0.06 (W) X 0.06 (H) | | mm |
| DRIVE METHOD | 1/32 Duty , 1/6BIAS | | |
| VIEWING DIRECTION | 6 O'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 | 75g | | |

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. | | | | |