

SHENZHEN BRILLIANT CRYSTAL TECHNOLOGIC CO.,LTD.

深 圳 市 彩 晶 科 技 有 限 公 司

The specification for the following models :

CM12232-20SLYAA-5

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

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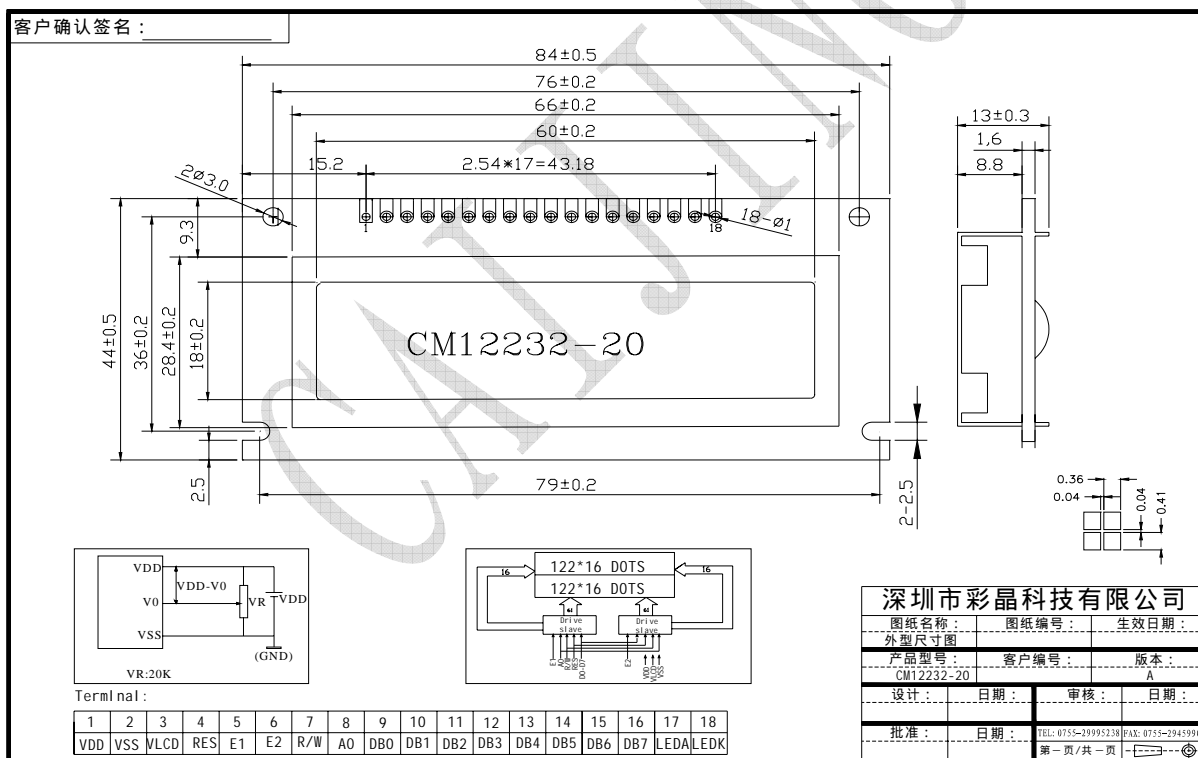
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1. Mechanical Specification

| ITEM | STANDARD VALUE | | | UNIT |
|--------------------------|--------------------------------|---|---|------|
| Dot Matrix | 122 X 32 DOTS | | | -- |
| MODULE DIMENSION | 84.0 (W) X 44.0 (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 |
| LED backlight current | 78 | | | mA |
| Backlight Half-Lift Time | 35,000 | | | HR. |
| INPUT VOLTAGE | DC +5.0V | V | 1 | mA |
| LCD DRIVER | 1520 | | | |
| Weight | 35g | | | |

2. Mechanical Diagram



3. Interface Pin Connections

| NO | SYMBOL | LEVEL | FUNCTION |
|----|--------|-------|---|
| 1 | VDD | 5V | Power Supply |
| 2 | VSS | 0V | Power Ground |
| 3 | VLCD | 0 +5V | LCD Drive Voltage |
| 4 | /RES | H/L | Reset Signal(enable at low) |
| 5 | E1 | H/L | Enable signal of first IC |
| 6 | E2 | H/L | Enable signal of second IC |
| 7 | R/W | H/L | Selection of READ or WRITE |
| 8 | A0 | H/L | D/I="H" , mean DB7 ~ DB0 is Data D/I="L" , mean DB7 ~ DB0 is command |
| 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. | | | | |