

# DMT48270C043\_03W

4.3 Inches, 480xRGBx272, 65K Colors, DGUS LCM



## Record of Revision

| Revise Date | Content       |
|-------------|---------------|
| 2012-08-01  | First Edition |

## ● Display

| Item               | Parameter                   | Description                   |
|--------------------|-----------------------------|-------------------------------|
| Color              | 65K (65536) colors          | 16 bit color 5R6G5B           |
| Active Area (A.A.) | 95.0mm (W) x53.9mm (H)      | 480*272                       |
| View Area (V.A.)   | 96.0mm (W) x54.9mm (H)      | 480*272                       |
| Resolution         | 480*272                     | 90° rotated display (272*480) |
| Backlight          | LED                         | -                             |
| Brightness         | 300 nit (DMT48270C043_03WN) | 64 levels adjustment          |
|                    | 250 nit (DMT48270C043_03WT) | 64 levels adjustment          |

## ● Voltage & Current

| Item              | Conditions               | Min | Typ | Max | Unit |
|-------------------|--------------------------|-----|-----|-----|------|
| Power Voltage     | -                        | 3.3 | 5.0 | 6.0 | V    |
| Operation Current | VCC = +5V, Backlight on  | -   | 360 | -   | mA   |
|                   | VCC = +5V, Backlight off | -   | 180 | -   | mA   |

Recommended power supply: 5V 1A DC

## ● Reliability Test

| Item                | Conditions          | Min | Typ  | Max | Unit |
|---------------------|---------------------|-----|------|-----|------|
| Working Temperature | 60%RH at 5V voltage | -20 | 25   | 70  | °C   |
| Storage Temperature | -                   | -30 | 25   | 85  | °C   |
| Working Humidity    | 25°C                | 10% | 60%  | 90% | RH   |
| Protective Paint    | -                   | -   | None | -   | -    |
| Aging Test          | -                   | -   | None | -   | H    |

## ● Interface

| Item                       | Conditions                           | Min  | Typ    | Max     | Unit |
|----------------------------|--------------------------------------|------|--------|---------|------|
| Baudrate                   | Standard                             | 1200 | 115200 | 921600  | bps  |
|                            | User set                             | 1200 | -      | 1000000 | bps  |
| Output Voltage (TXD, BUSY) | Output 1, Iout = 1mA                 | 3.0  | 3.2    | -       | V    |
|                            | Output 0, Iout = -1mA                | -    | 0.1    | 0.2     | V    |
| Input Voltage (RXD, I/O)   | Input 1, Iin = 1mA                   | 2.0  | 3.3    | 5.0     | V    |
|                            | Input 0, Iin = -1mA                  | -0.7 | 0      | 1.3     | V    |
| Interface                  | 8N1, 3.3V TTL/CMOS                   |      |        |         |      |
| Socket                     | 10Pin_1.0mm FCC                      |      |        |         |      |
| USB                        | None                                 |      |        |         |      |
| SD Slot                    | Yes (FAT32 file format, Micro SD/TF) |      |        |         |      |

## ● Memory

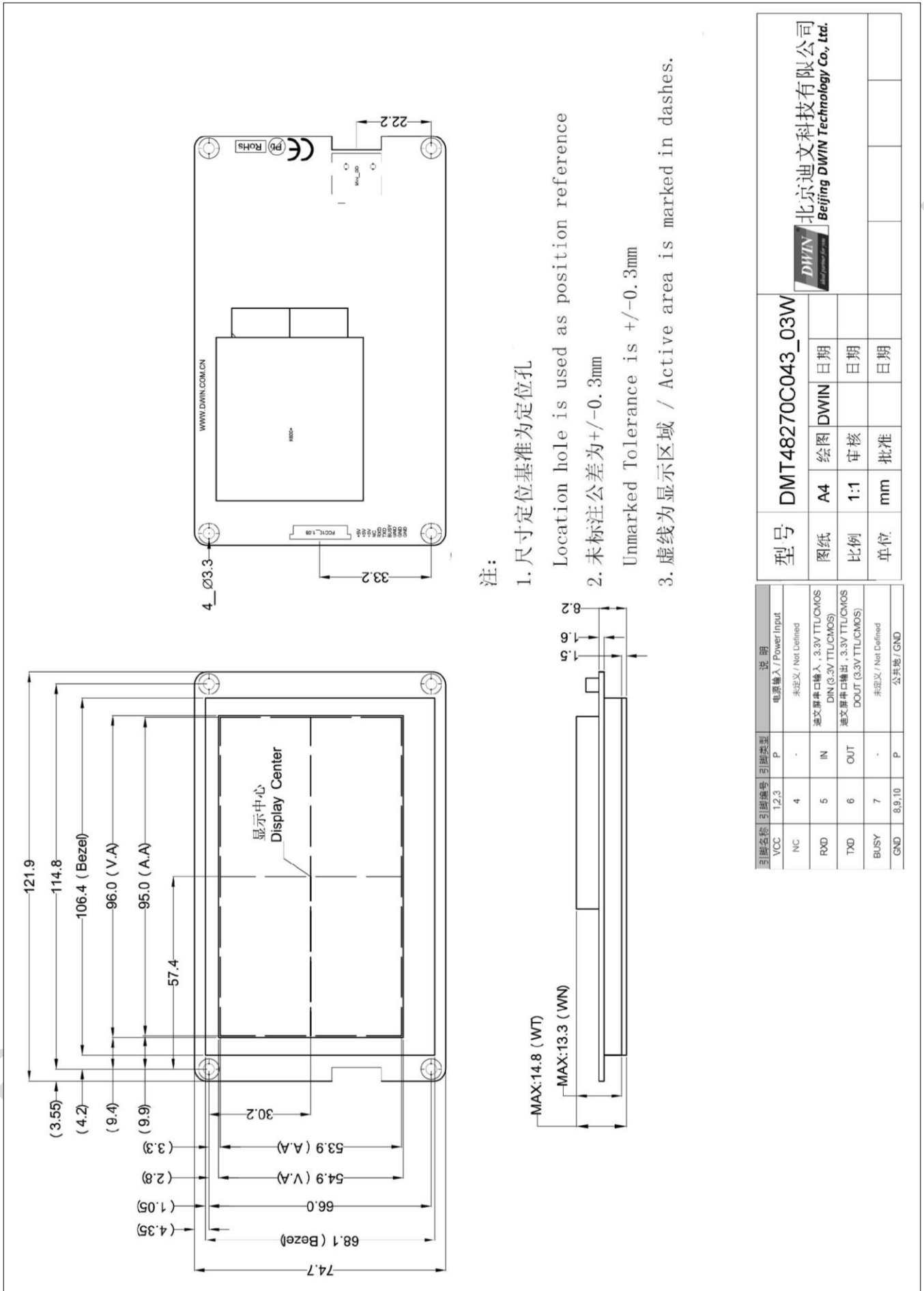
| Item  | Parameter               | Min | Typ | Max  | Unit |
|-------|-------------------------|-----|-----|------|------|
| Flash | Space of Font           | -   | 32  | -    | MB   |
|       | Picture Storage (256MB) | -   | -   | 836  | Pcs  |
|       | Picture Storage (2GB)   | -   | -   | 7584 | Pcs  |
| RAM   | Variable Storage Space  | -   | 56  | -    | KB   |

## ● Peripherals

| Peripherals Acquired |   |
|----------------------|---|
| Peripherals          | DMT48270C043_03WN : RTC, Buzzer<br>DMT48270C043_03WT : 4-wire resistance touchscreen, RTC, Buzzer |

## ● Packing Capacity & Dimension

| Dimension        |                                       |       |                |               |
|------------------|---------------------------------------|-------|----------------|---------------|
| Dimension        | 121.9(W) x74.7(H) x13.3(N) /14.8(T)mm |       |                |               |
| Net Weight       | 105g (DMT48270C043_03WN)              |       |                |               |
|                  | 125g (DMT48270C043_03WT)              |       |                |               |
| Packing Capacity |                                       |       |                |               |
| Model            | Size                                  | Layer | Quantity/Layer | Quantity(Pcs) |
| Carton1          | 220mm(L)x160mm(W)x47mm(H)             | 1     | 2              | 2             |
| Carton2          | 250mm(L)x200mm(W)x80mm(H)             | 2     | 2              | 4             |
| Carton3          | 320mm(L)x270mm(W)x80mm(H)             | 2     | 4              | 8             |
| Carton4          | 450mm(L)x350mm(W)x300mm(H)            | 2     | 25             | 50            |
| Carton5          | 600mm(L)x450mm(W)x300mm(H)            | 2     | 60             | 120           |



注:

1. 尺寸定位基准为定位孔

Location hole is used as position reference

2. 未标注公差为 $\pm 0.3\text{mm}$

Unmarked Tolerance is  $\pm 0.3\text{mm}$

3. 虚线为显示区域 / Active area is marked in dashes.

| 引脚名称 | 引脚编号   | 引脚类型 | 说明   |
|------|--------|------|--|
| VCC  | 1,2,3  | P    | 电源输入 / Power Input                             |
| NC   | 4      | -    | 未定义 / Not Defined                              |
| RXD  | 5      | IN   | 迪文串口输入, 3.3V TTL/CMOS<br>DIN (3.3V TTL/CMOS)   |
| TXD  | 6      | OUT  | 迪文串口输出, 3.3V TTL/CMOS<br>DOOUT (3.3V TTL/CMOS) |
| BUSY | 7      | -    | 未定义 / Not Defined                              |
| GND  | 8,9,10 | P    | 公共地 / GND                                      |

| 型号 | DMT48270C043_03W |    |      |
|----|------------------|----|------|
| 图纸 | A4               | 绘图 | DWIN |
| 比例 | 1:1              | 审核 | 日期   |
| 单位 | mm               | 批准 | 日期   |

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