



PHOENIX DISPLAY INTERNATIONAL, INC.

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SPECIFICATION FOR LCD MODULE

| | |
|--------------------|--------------------|
| CUSTOMER | |
| PART NUMBER | PDI024QVTS-25 |
| DESCRIPTION | 2.4" 240 x 320 TFT |
| VERSION | |
| ISSUE DATE | |

COMPANY ADDRESS:

Phoenix Display International, Inc.
6150 W. Gila Springs Place Unit 2
Chandler, AZ 85226
USA

www.phoenixdisplay.com

(630) 359-5700 office

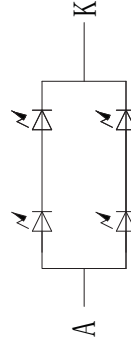
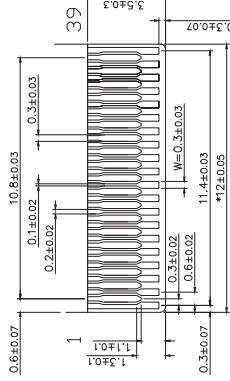
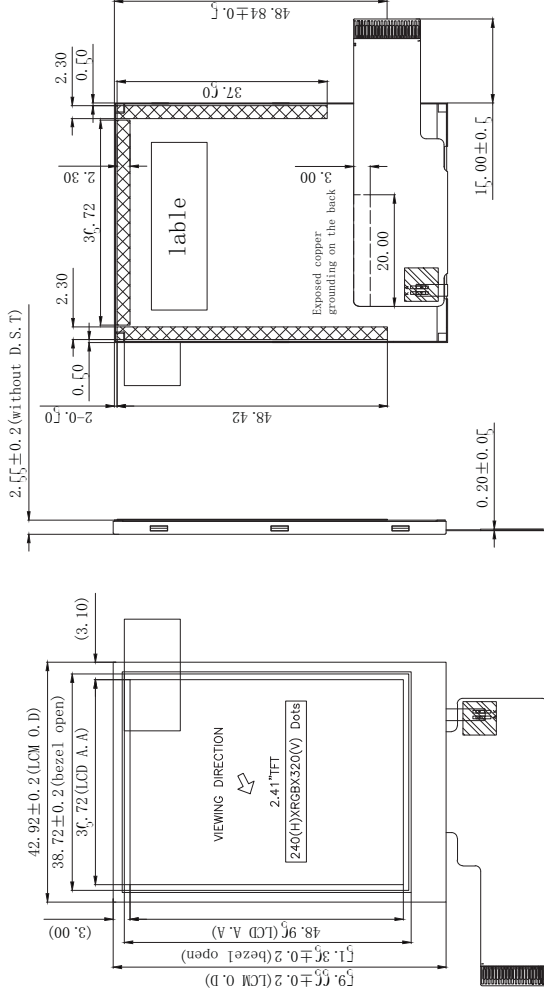
(630) 359-5701 fax

LCM PIN Definition

| | |
|-------|------------|
| 1 | VSS |
| 2 | VSS |
| 3 | VCI |
| 4 | IOVCC |
| 5 | VSS |
| 6 | RESET |
| 7 | CS |
| 8 | RS/SPI SCL |
| 9 | WR/SPI4 RS |
| 10 | SPI SDA |
| 11-28 | DB0-DB17 |
| 29 | IM0 |
| 30 | IM1 |
| 31 | IM2 |
| 32 | RD |
| 33-36 | NC |
| 37 | TE |
| 38 | BLH/A |
| 39 | BLI/K |

| IM2 | IM1 | IM0 | Interface | Data Pin |
|-----|-----|-----|------------|-----------|
| 0 | 0 | 0 | MCU8-bit | DB(8:0) |
| 0 | 0 | 1 | MCU16-bit | DB(15:0) |
| 0 | 1 | 1 | MCU18-BIT | DB(17:0) |
| 1 | 0 | 1 | 3-line SPI | SDAin/out |
| 1 | 1 | 0 | 4-line SPI | SDAin/out |

| | |
|-----------------------|---|
| LCD Type | 2.4" TFT, Transflective, Normally white, TN |
| Resolution | 240(RGB)*320 |
| View Direction | 2 O'CLOCK |
| Driver IC | ST7789V |
| Color Depth | 65K/262K |
| Interface Types | SPB, SP4/MCU8/16/18BIT |
| Operating voltage | 2.8V |
| TP/Lens | Without |
| Backlight LEDs | 4 LEDs, 40mA, 6V |
| Surface luminance | TBD, cd/m2 |
| Operating temperature | -20 °C ~ 70 °C |
| Storage Temperature | -30 °C ~ 80 °C |
| Storage Humidity | 0%~90% max |



CURRENT : IF=20*2=40mA, ζ . 0V (REF.)

Detail A
Scale 4:1

CONNECTOR: HRS FH23-39S-0.3SHW

| | | | | | | | | | |
|--|-----------------|----------------------|------------|----------------------|---------------|-----------|-------|------------|------------|
| * Need to pay attention to 变更记录(Change history) 全新设计 改为SPI和I2C兼容的接口 | 版本(Version) | the key size with * | | 比例(Proportion): | 1:1 | 设计 | 审核 | 批准 | |
| | V1 | 日期(Date) | 2018.10.27 | 单位 (Unit): | M M | 面 (Page): | 1 / 1 | (AUDITING) | (APPROVED) |
| | V2 | 产品型号 (Product Type): | 2018.10.31 | 产品型号 (Product Type): | TST024QVTS-25 | 设计 | Arcon | 2018.10.31 | |
| V3 | 图纸版本 (Version): | V2 | | | | | | | |