

Product Specifications

| Customer | STANDARD |
|-------------|---------------------|
| Description | 4.37" TFT EPD Panel |
| Model Name | E2437KS0C1 |
| Date | 2024/04/09 |
| Doc. No. | 1P399-00 |
| Revision | 01 |

| | | | | _ | | | | |
|-----------|-------------------|------------|------|-----|---------|-----------------|---------|--|
| | Customer Approval | | | | | | | |
| | | <u></u> | 30 | | | | | |
| Da | ite | | | | | | | |
| The above | signature | represents | that | the | product | specifications, | testing | |

regulation, and warranty in the specifications are accepted

| Design Engineering | | | | | | | | | | |
|------------------------|-------------------------------|-----------------------|--|--|--|--|--|--|--|--|
| Approval | Approval Check Design | | | | | | | | | |
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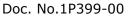
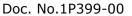




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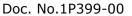
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Revision History

| Version | Date | Page (New) | Section | Description |
|---------|------------|---------------|---------|-------------------------------------|
| 01 | 2024/04/09 | All | All | Product specification first issued. |
| | | | | Confidential |





Glossary of Acronyms

EPD Electrophoretic Display (e-Paper Display)

EPD Panel EPD

EPD Module EPD with TCon board
TCon Timing Controller
TFT Thin Film Transistor
FPC Flexible Printed Circuit
FPL Front Plane Laminate

SPI Serial Peripheral Interface

COG Chip on Glass

IIS Incoming Inspection Standard

ISTA International Safe Transit Association

PDI Pervasive Displays Incorporated



1 General Description

1.1 Overview

This is a 4.37" a-Si, active matrix TFT, Electronic Paper Display (EPD) panel. The panel has high resolution (117dpi) that it is able to easily display fine patterns. Due to its bi-stable nature, the EPD panel requires very little power to update and needs no power to maintain an image.

1.2 Features

- a-Si TFT active matrix Electronic Paper Display(EPD)
- Resolution: 480 x 176
- Ultra low power consumption
- Super Wide Viewing Angle near 180°
- Extra thin & light
- SPI interface
- RoHS compliant
- Wide temperature support

1.3 Applications

- Electronic shelf label (ESL)
- Reusable container
- Badge



1.4 General Specifications

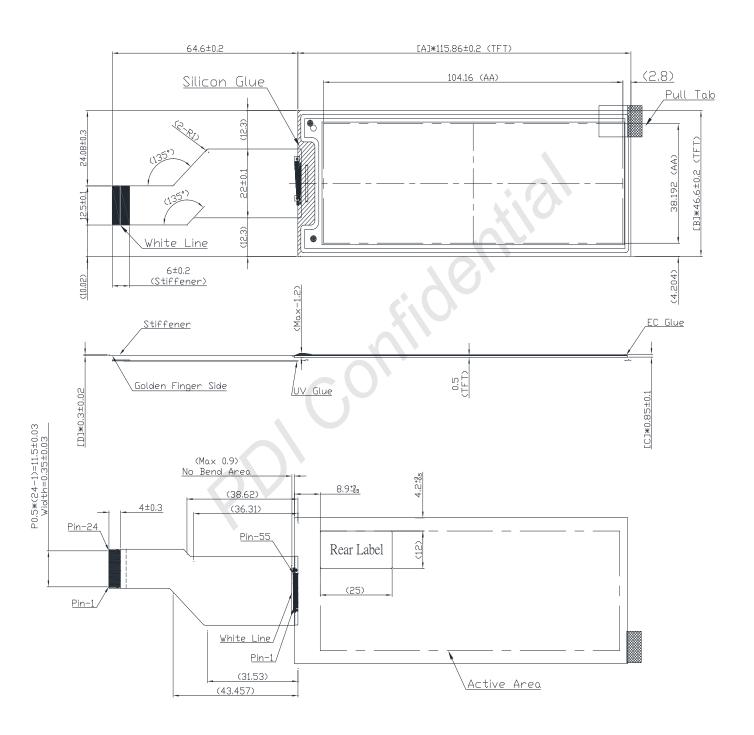
Table 1-1 General Specification

| Item | Specification | Unit | Note |
|-------------------|-------------------------------|-------|------|
| Outline Dimension | 115.86(H) x 46.6(V) x 0.85(T) | mm | (1) |
| Active Area | 104.16(H) x 38.192(V) | mm | |
| Driver Element | a-Si TFT active matrix | - | |
| Pixel Number | 480 x 176 | pixel | |
| Pixel Pitch | 0.217 x 0.217 (117dpi) | mm | |
| Pixel Arrangement | Vertical stripe | - | |
| Display Colors | Black/White | - | |
| Surface Treatment | Anti-Glare | - | |
| Weight | 9.3 ± 1 | g | |

Note (1): Not including FPC and Masking Film.



Figure 1-1 EPD Drawing



General tolerance: ±0.3mm



2 Absolute Maximum Ratings

2.1 Absolute Ratings of Environment

Table 2-1 Absolute Ratings of Environment

| Item | Cymbol | Va | lue | Lloit | Note | |
|-------------------------------|------------------|------|------|-------|-----------------|--|
| Item | Symbol | Min. | Max. | Unit | | |
| Storage Temperature | T _{ST} | -20 | 60 | ٥C | (1),(3) | |
| Storage Humidity | H _{ST} | 30 | 90 | %RH | (1),(3) | |
| Operating Ambient Temperature | T _{OP} | -15 | 60 | ٥C | (1),(2),(4),(5) | |
| Operating Ambient Humidity | H _{OP} | 30 | 90 | %RH | (1),(2),(4) | |
| Optimal Storage Temperature | T _{OST} | -10 | 35 | ٥C | (1),(3) | |
| Optimal Storage Humidity | H _{OST} | 40 | 60 | %RH | (1),(3) | |

Note (1):

- (a) 90 %RH Max. (Ta \leq 40 °C), where Ta is ambient temperature.
- (b) Wet-bulb temperature should be 39 °C Max. (Ta > 40 °C).
- (c) No condensation and no frost in absolute ratings of Environment.
- Note (2): The temperature of panel display surface area should be -15 °C Min. and 60 °C Max. Refresh time depends on operating temperature.
- Note (3): E Ink Material is Moisture and UV sensitive. The absolute rating operating environments describes the boundary conditions for updating the display while the absolute rating storage environment describe the boundary conditions for a display not updating. While displays are rated to perform according to specification for the warranty period at the absolute specified operating environment, the better the storage condition, the better the E Ink displays will perform. Similar to other moisture and UV sensitive components, we recommend that our displays be stored in temperature and humidity control environments, and whenever possible, under above defined Optimal Storage Condition, away from sunlight, to optimize their performance.
- Note (4): The performance of EPD may be degraded under sunlight. Please customer consults PDI if customer wants to use EPD under sunlight.
- Note (5): Fast update mode is supported at 0~50 °C. (Please execute normal update mode when the image gets worse.)

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2.2 Reliability Test Item

Table 2-2 Reliability Test Items

| Item | Test Condition | Note |
|--------------------------------------|---|-----------|
| High Temperature Operation | 60 °C / 30 %RH for 240h | (1) (2) |
| Low Temperature Operation | -15 °C for 240h | (1) (2) |
| High Temperature/Humidity Operation | 40 °C / 90 %RH for 240h | (1) (2) |
| High Temperature Storage | 60 °C / 30 %RH for 240h | (1)(2)(3) |
| Low Temperature Storage | -20 °C for 240h | (1)(2)(3) |
| High Temperature/Humidity Storage | 60 °C / 80 %RH for 240h | (1)(2)(3) |
| Thermal Cycles (Non-operation) | 1 Cycle:-20°C /30min → 60°C /30min, for 100 Cycles | (1)(2)(3) |
| Package Drop Test | Drop from 97cm. (ISTA) 1 corner, 3 edges, 6 sides. One drop for each. | (1)(2)(3) |
| Package Random Vibration Test | 1.15Grms, 1Hz ~ 200Hz. (ISTA) | (1)(2)(3) |

- Note (1): No condensation and no frost during test. End of test, function, mechanical, and optical shall be satisfied with product specification and IIS.
- Note (2): The test result and judgment are based on PDI's 1bit driving waveform, driving fixture and driving system.
- Note (3): Stay white pattern for storage and non-operation test.

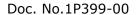
2.3 Product Lifetime

The EPD Module is designed for a 5-year lifetime with 25 $^{\circ}$ C/50%RH operation assumption. Reliability estimation testing with accelerated life-time theory would be demonstrated to provide confidence of EPD lifetime.

2.4 Product Warranty

Warranty conditions have to be negotiated between PDI and individual customers. PDI provides 13months warranty for all products which are purchased from PDI.

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3 Electrical Characteristics

3.1 Absolute Maximum Ratings of Panel

Table 3-1 Absolute Maximum Ratings of Panel

| Davarantav | Cymphol | Value | | Lloit | Nata | |
|----------------------|----------------------------------|-------|-----|-------|-------------------|--|
| Parameter | Symbol | Min | Max | Unit | Note | |
| Logic supply voltage | $V_{\text{DD}}, V_{\text{DDIO}}$ | -0.3 | 6.0 | V | | |
| Ground | GND | - | | - | Connect to Ground | |

 $Ta = 25 \pm 2 \, ^{\circ}C$

3.2 Recommended Operation Conditions of Panel

Table 3-2 DC Characteristics of Panel

| Parameter | | Symbol | | Value | | Unit | Note |
|---------------|------------|---------------------|--|-------|----------------------|------------------------------------|--|
| Para | Parameter | | Min | Тур | Max | | |
| Operation | on voltage | Vdd, Vddio | 2.3 | 3.0 | 3.6 | V | V _{DDIO} , V _{DD} must be stable. |
| Input | High | V _{IH} | V _{IH} 0.8V _{DDIO} - V _{DDIO} | | V | V _{DDIO} =V _{DD} | |
| Voltage | Low | V _{IL} | 0 | - | 0.2V _{DDIO} | V | VDDIO=VDD |
| Output | High | V _{OH} | 0.8V _{DDIO} | ı | - | V | $V_{DDIO}=V_{DD}$ $I_{OH}=400uA$ |
| Voltage | Low | V _{OL} | 0 | ı | 0.2V _{DDIO} | V | V _{DDIO} =V _{DD} I _{OL} =-400uA, |
| Input Current | | ${ m I}_{ m DD}$ | - | 6.46 | - | mA | (1),(2),(3) |
| Peak Current | | ${ m I}_{\sf PEAK}$ | - | 25.27 | - | mA | (1),(2),(3) |

 $Ta = 25 \pm 2 \, ^{\circ}C$

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Note (1):

Figure 3-1 Test Pattern of Panel



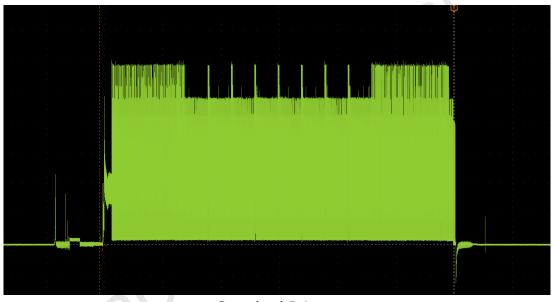
Standard Price

These currents are tested with PDI test jig.

Note (2):

 $V_{DDIO}=V_{DDA}=3.0V$

Figure 3-2 Image Update Current Profile

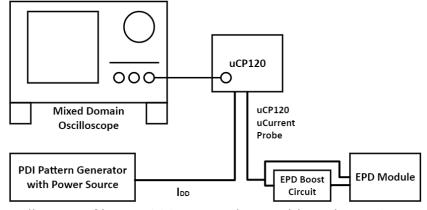


Standard Price

 $T_a = 25 \pm 2 \, {}^{\circ}\text{C}$

Note (3):

Figure 3-3 Current Measurement

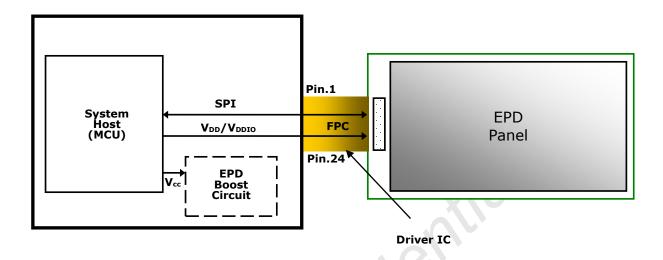


*Set oscilloscope filter > 200MHz and record length to 10M points.



4 Application Circuit Block Diagram

4.1 Application Circuit Block Diagram





5 Terminal Pin Assignment

5.1 Input Terminal Pin Assignment

Table 5-1 Input Connector Specification

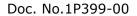
| Item | Pin numbers | Pitch (mm) | Connector | Note |
|---------------|-------------|------------|---|------|
| Golden Finger | 24 | 0.5 | HRS FH34SRJ 24S or STARCONN 6700S24 or Compatible | (1) |

Note (1): HRS FH34SRJ 24S is 24-pins connectors. The 24 pins are used to connect FPC pads of EPD. Please refer PDI demo kit for detailed connection.

Table 5-2 Terminal Pin Assignment

| No. | Signal | Туре | Connected to | Function |
|-----|--------|------|--------------------------------|--|
| 1 | NC | - | - | |
| 2 | GDR | 0 | Power MOSFET Driver control | This pin is the N-Channel MOSFET Gate Drive Control. |
| 3 | RESE | I | Booster Control Input | This pin is the Current Sense Input for the Control Loop. |
| 4 | NC | - | | - |
| 5 | VDHR | С | Capacitor | This pin is the VDHR driving voltage. A stabilizing capacitor should be connected between VDHR and GND. |
| 6 | NC | | - | - |
| 7 | NC | - | - | - |
| 8 | BS | I | GND | This pin is setting panel interface. |
| 9 | BUSY_N | 0 | Device Busy Signal | This pin is Busy state output pin. When Busy is active, the operation of the chip should not be interrupted, and Command should not be sent. |
| 10 | RST_N | I | System Reset | This pin is reset signal input. Active Low. |
| 11 | DC | I | VDDIO or GND | This pin is Data/Command control. |
| 12 | CSB | I | VDDIO or GND | This pin is the chip select. |

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| No. | Signal | Туре | Connected to | Function |
|-----|--------|------|--------------|---|
| 13 | SCL | I | Data Bus | Serial communication clock input. |
| 14 | SDA | I | Data Bus | Serial communication data input/output. |
| 15 | VDDIO | Р | Power Supply | Power for interface logic pins & I/O. It should be connected with VDDIO. |
| 16 | VDD | Р | Power Supply | Power Supply for the chip. |
| 17 | GND | Р | Ground | Ground |
| 18 | VDDD | С | Capacitor | Internal regulator output A capacitor should be connected between VDDD and GND. |
| 19 | NC | - | - | - (|
| 20 | VDH | С | Capacitor | This pin is the Positive Source driving voltage. A stabilizing capacitor should be connected between VDH and GND. |
| 21 | VGH | С | Capacitor | This pin is the Positive Gate driving voltage. A stabilizing capacitor should be connected between VGH and GND. |
| 22 | VDL | С | Capacitor | This pin is the Negative Source driving voltage. A stabilizing capacitor should be connected between VDL and GND. |
| 23 | VGL | С | Capacitor | This pin is the Negative Gate driving voltage. A stabilizing capacitor should be connected between VGL and GND. |
| 24 | VCOM | С | Capacitor | This pin is the VCOM driving voltage. A stabilizing capacitor should be connected between VCOM and GND. |

Note:

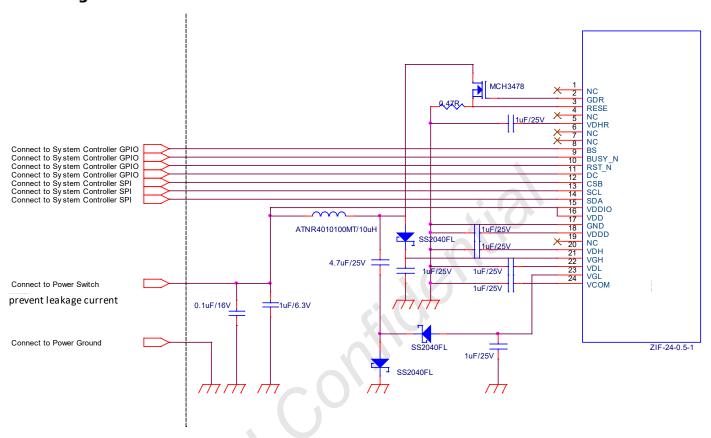
Type: I: Input

O : Output C : Capacitor P : Power



5.2 Reference Circuit

Figure 5-1 EPD Reference Circuit

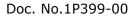


| Туре | Part | Vendor |
|------------|---------------------------------|---------------------|
| Inductor | 10uH ATNR4010100MT +-20% 0.8A | ARLITECH |
| Transistor | MCH3478 SOT-23 N-Channel 30V/2A | ON Semiconductor |
| Diode | SS2040FL SOD-123FL | PANJIT |

Note:

- (1) MCH3478 (ON Semiconductor) is a N-Channel Power MOSFET. The specification of selection criteria is R_{DS}<235m ohm (the lower the better), V_{DSS}=30V, V_{GS}=2.5V@ID=0.5A.
- (2) SS2040FL is a Schottky diode needs the V_f as lower as possible, 0.2 to 0.4V and the repetitive peak reverse voltage > 25V & reverse current < 100uA.

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6 Optical Characteristics

6.1 Measurement Conditions

Table 6-1 Optical Measurement Conditions

| Item | Symbol | Value | Unit |
|---------------------|-------------------------------------|-------|------|
| Ambient Temperature | Ta | 25±2 | °C |
| Ambient Humidity | На | 50±10 | %RH |
| Supply Voltage | V _{DD} , V _{DDIO} | 3.0 | V |

Note (1): Image is updated with above condition.

6.2 Optical Specification

6.2.1 Optical

Table 6-2 Optical Measurement with D65 Light Source

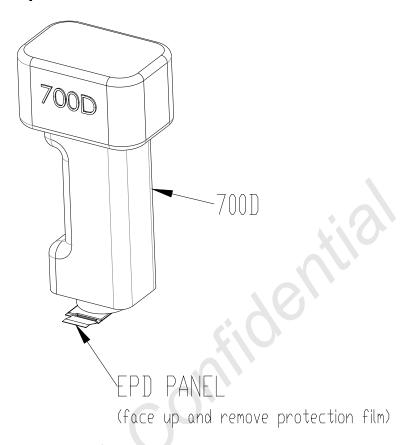
| There | Constant | Rating | | | l laib | NI - t- |
|----------------|----------|--------|------|------|--------|--|
| Item | Symbol | Min. | Тур. | Max. | Unit | Note |
| Contrast ratio | CR | | 12.5 | - | - | $\theta x = \theta y = 0$ (1),(2),(4),(5) |
| Refresh time | Tr | | 2.45 | - | sec | (1),(3),(5) |
| White state | L* | - | 69.5 | - | | |
| | a* | - | -2.7 | - | - | $\theta x = \theta y = 0$ (1),(2),(5) |
| | b* | - | 1.4 | - | | |
| Reflectance | R% | 40 | - | - | % | (1),(2),(5) |

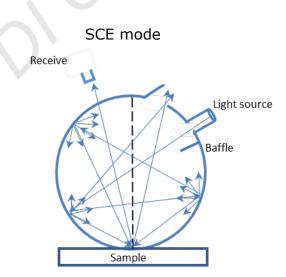
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Note (1): Panel is driven by PDI waveform without masking film and optical measurement by CM-700D with D65 light source and SCE mode.

Figure 6-1 Optical Measurement

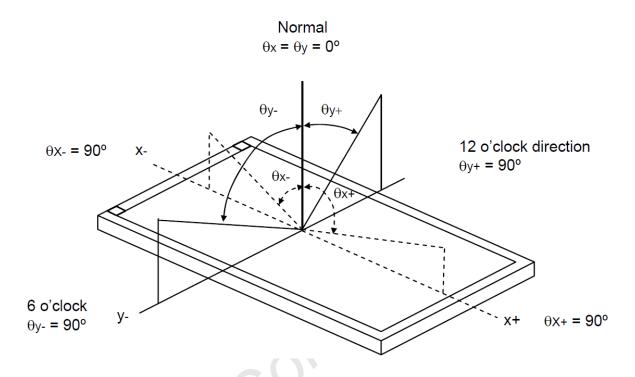






Note (2): Definition of Viewing Angle (θx , θy):

Figure 6-2 Definition of Viewing Angle to Measure Contrast Ratio



- Note (3): Refresh time is the time that e-paper particles move not including the power on and off time. The refresh time is measured at 25°C. The refresh time and contrast ratio vary due to different lot of film, display performance requirements, and ambient temperatures.
- Note (4): Contrast ratio (C.R.): The Contrast ratio is calculated by the following expression. C.R. = (R% White) / (R% Black).
- Note (5): Optical data is measured at 60 seconds after refresh with PDI's global update procedure.

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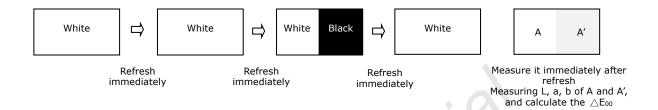


6.2.2 Ghosting

Below are test method to verify if ghosting is within an acceptable range. The measured data (L*, a*, b*) to calculate color different, $\triangle E_{00}$ (CIEDE 2000).

The condition of measurement is to follow "Table 6-1 Optical Measurement Conditions".

Test 1: White to Black Ghosting



Test 2: Black to White Ghosting

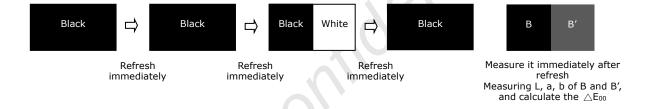


Table 6-3 Measurement of Ghosting

| Thomas | Rating | | | | |
|---------|--------|------|------|--|--|
| Item | Min. | Тур. | Max. | | |
| B'W∆E₀₀ | - | - | 2 | | |
| W'B△E₀₀ | - | - | 2 | | |

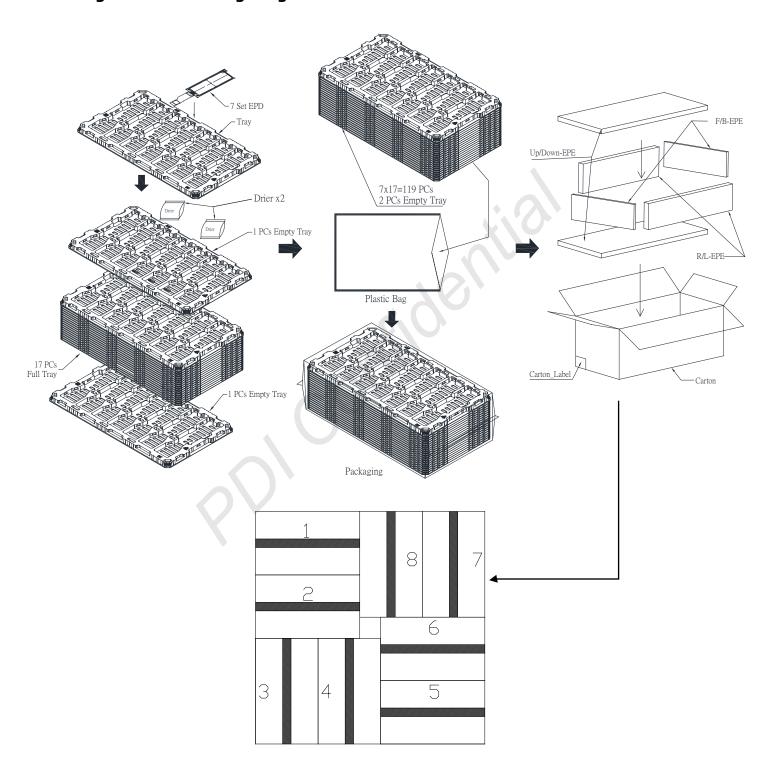
Note: Panel is driven by PDI's tooling system and PDi's waveform without masking film and optical measurement by CM-700D with D65 light source and SCE mode.

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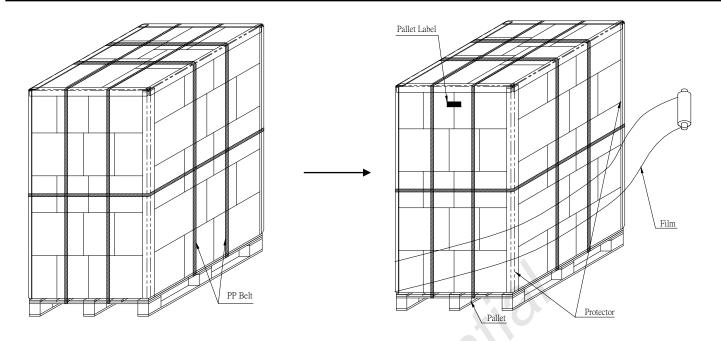


7 Packing

Figure 7-1 Packing Diagram



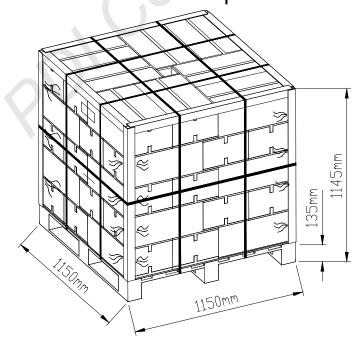




119(pcs)x40(BOX)=4,760pcs

| | 4.37" EPD BOX |
|--------|---------------|
| N.W. : | 1.11 Kg |
| G.W. : | 4.48 Kg |

Sea / Land / Air Transportation



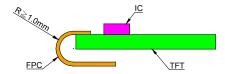


8 Precautions

- (1) The EPD Panel / Module is manufactured from fragile materials such as glass and plastic, and may be broken or cracked if dropped. Please handle with care. Do not apply force such as bending or twisting to the EPD panel. Please put on gloves to handle EPD to avoid slash.
- (2) It is recommended to assemble or install EPD panels in a clean working area. Dust and oil may cause electrical shorts or degrade / scratch / dent the protection sheet film.
- (3) Do not apply pressure to the EPD panel in order to prevent damaging it.
- (4) Do not connect or disconnect the interface connector while the EPD panel is in operation.
- (5) Please support as the bezel with your finger while connecting the interface cable such as the FPC.
- (6) Do not stack the EPD panels / Modules.
- (7) Do not press the FPC on the glass edge or Pull FPC up / down to 90°.
- (8) Do not touch the FPC lead connector.
- (9) Do not touch IC bonding area. It may scratch TFT lead or damage IC function.
- (10) Wear a Wrist Strap (Grounding connect) when handling and during assembly. Semiconductor devices are included in the EPD Panel / Module and they should be handled with care to prevent any electrostatic discharge (ESD). (An Ion Fan may be needed in assembly operation to reduce ESD risk.)
- (11) Keep the EPD Panel / Module in the specified environment and original packing boxes when storage in order to avoid scratching and keep original performance.
- (12) Do not disassemble or reassemble the EPD panel.
- (13) Use a soft dry cloth without chemicals for cleaning. Please don't press hard for cleaning because the surface of the protection sheet film is very soft and without hard coating. This behavior would make dent or scratch on protection sheet.
- (14) Please be mindful of moisture to avoid its penetration into the EPD panel, which may cause damage during operation.
- (15) It's low temperature operation product. Please be mindful the temperature different to make frost or dew on the surface of EPD panel. Moisture may penetrate into the EPD panel because of frost or dew on surface of EPD panel, and makes EPD panel damage.
- (16) If the EPD Panel / Module is not refreshed every 24 hours, a phenomena known as "Ghosting" or "Image Sticking" may occur. It is recommended that customer refreshed the ESL / EPD Tag every 24 hours in use case. It is recommended that customer ships or stores the ESL / EPD Tag with a completely white image to avoid this issue.
- (17) High temperature, high humidity, sunlight or fluorescent light may degrade the EPD panel's performance. Please do not expose the unprotected EPD panel to high temperature, high humidity, sunlight, or fluorescent for long periods of time.
- (18) The label ink used for marking the Panel ID number is erased easily by solvent. Please avoid using solvent to clean the EPD panel.
- (19) The EPD is vacuum packed.
- (20) Before approved by PDI and customer, products and product specifications may be subject to change without notice. Confirm that you have received the latest product standards or specifications before final design, purchase or use.
- (21) PDI makes every attempt to ensure that its products are of high quality and reliability. However, contact PDI sales office before using the product in an application that demands



- especially high quality and reliability or where its failure or malfunction may directly threaten human life or cause risk of bodily injury, such as aerospace, aeronautics, nuclear power, combustion control, transportation, traffic, safety equipment or medical equipment for life support.
- (22) Design your application so that the product is used within the ranges guaranteed by PDI particularly for maximum rating, operating supply voltage range, heat radiation characteristics, installation conditions and other characteristics. PDI bears no responsibility for failure or damage when used beyond the guaranteed ranges. Even within the guaranteed ranges, consider normally foreseeable failure rates or failure modes in semiconductor devices and employ systemic measures such as fail safes, so that the equipment incorporating PDI product does not cause bodily injury, fire or other consequential damage due to operation of the PDI product.
- (23) This product is not designed to be radiation resistant.
- (24) Please keep $R \ge 1.0$ mm when bend for assembly.



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9 Definition of Labels

Figure 9-1 Definition of Model Labels

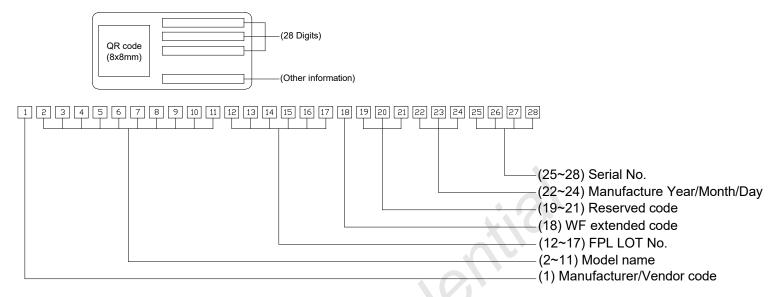
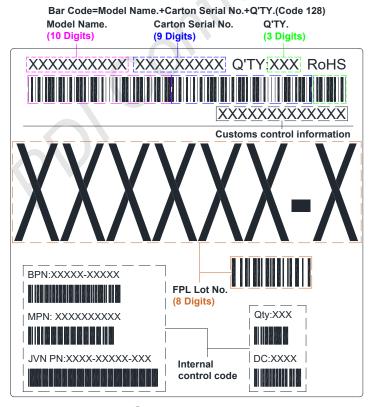


Figure 9-2 Carton Label



Carton Label

Note(1): The digit of No.8 is WF extended code

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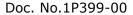
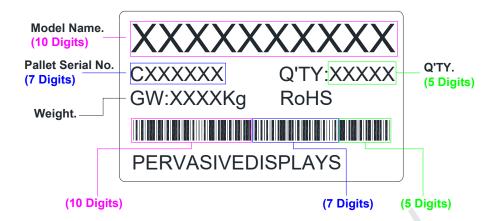




Figure 9-3 Pallet Label



Bar Code=Model Name.+Pallet Serial No.+Q'TY.(22 Digits)

Pallet Label