

**Approval** 

# TFT LCD Approval Specification FUNAI MPDEL NO.:TLCD100CME20 CMO MODEL NO.: V315B1 - C03

| Approved By | TVHD                                   |                          |  |  |
|-------------|--|--------------------------|--|--|
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|             |  |                          |  |  |
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| Version | Date        | Page<br>(New) | Section | Description                              |
| Ver.2.0 | Oct.22, '07 | All           | All     | Approval Specification was first issued. |
|         |             |               |         |  |





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# 1.0 Handling Precautions

- The LCD panel is made of glass and may break or crack if dropped on a hard surface. It is necessary to handle it carefully.
- Since front polarizer is easily damaged, pay attention not to scratch it.
- When the panel surface is soiled, wipe it with absorbent cotton or other soft cloth gently.
- Do not touch the front screen surface when assembling.

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# 2.0 General Description

This specification is applied to the Type V315B1 TFT/LCD cell. This cell is designed for a display unit for TV application.

The screen format is intended to support the WXGA (1366(H) x 768(V)) screen

### 2.1 Characteristics

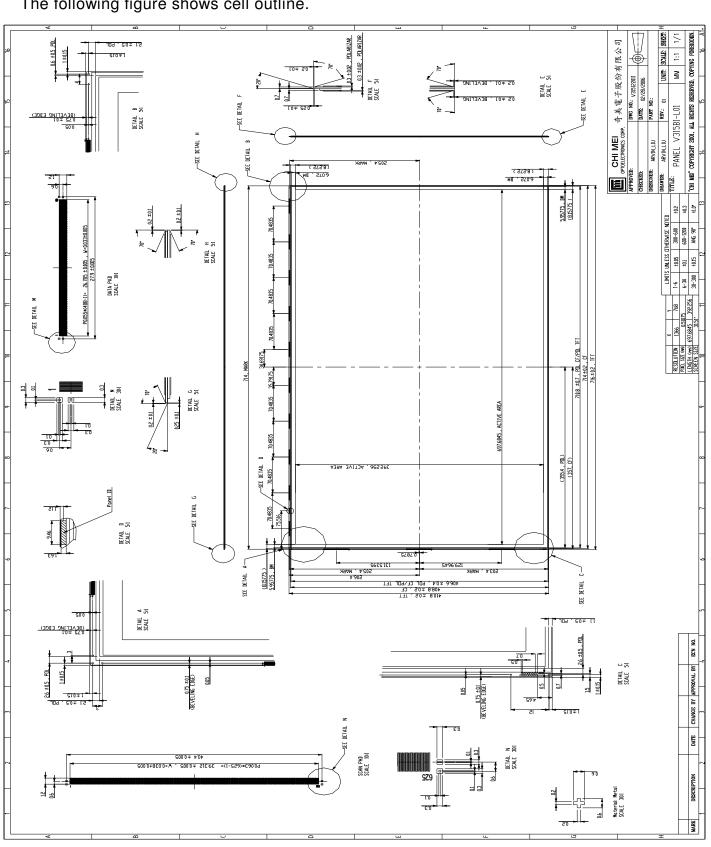
| CHARACTERISTICS ITEMS           | SPECIFICATIONS                                     |
|---------------------------------|--|
| Screen Diagonal [in]            | 31.51  |
| Pixels [lines]                  | 1366×768   |
| Active Area [mm]                | 697.6845 (H) x 392.256 (V)                         |
| Sub -Pixel Pitch [mm]           | 0.17025(H) x 0.51075 (V)                           |
| Pixel Arrangement               | RGB vertical stripe                                |
| Weight [g]                      | TYP. 1175  |
| Physical Size [mm]              | 716(W) x 410.8(H) x 2.00(D) Typ.                   |
| Display Mode                    | Transmissive mode / Normally black                 |
| Contrast Ratio                  | 1500:1 Typ.  |
|                                 | (Typical value measured at CMO's module)           |
| Glass thickness (Array/CF) [mm] | 0.7 / 0.7  |
| Viewing Angle(CR>20)            | +88/-88(H),+88/-88(V) Typ. (CR≥20)                 |
|                                 | (Typical value measured at CMO's module)           |
| Color White                     | Color Filter                                       |
|                                 | R=(0.650, 0.328)                                   |
|                                 | G=(0.272, 0.587)                                   |
|                                 | B=(0.135, 0.105)                                   |
|                                 | W=(0.304, 0.329)                                   |
|                                 | *White color is calibrated value measured at Color |
|                                 | Filter by C source                                 |
| Cell Transparency [%]           | 4.4%Typ.   |
|                                 | (Typical value measured at CMO's module)           |
| Polarizer (CF side)             | Wide View, Anti-glare coating,                     |
|                                 | 710.8 (W) x 406.6 (H). Hardness: 3H                |
| Polarizer (TFT side)            | Wide View, 710.8 (W) x 406.6 (H)                   |



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#### 3.0 **Cell Outline**

The following figure shows cell outline.



The information described in this technical specification is preliminary and it is possible to be changed without prior notice. Please contact CMO 's representative while your product design is based on this specification. Version2.0

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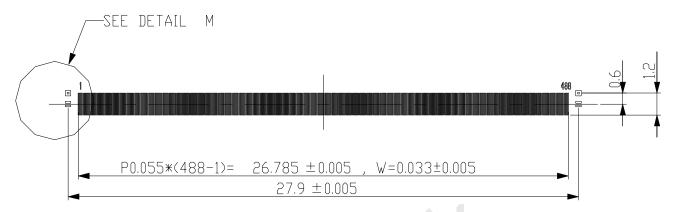


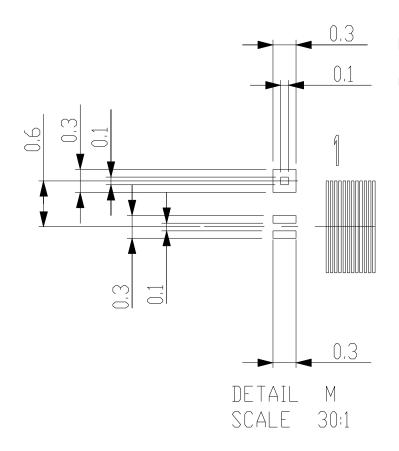
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# 3.1 PAD Design

The following figure shows Data & Scan pad design.

 $[ \ \, \textbf{Data Pad} \ \, ] \qquad \text{Unit } [\, m\, m\, ]$ 





z

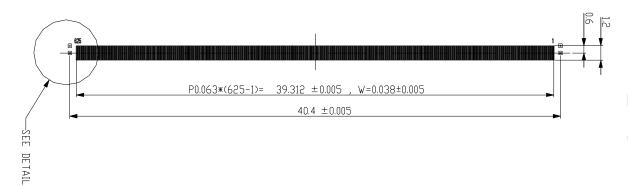


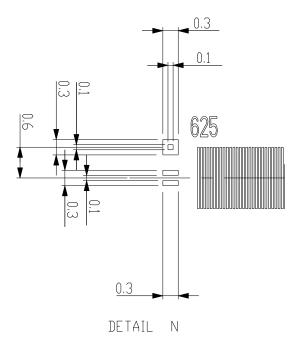


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#### [ Scan Pad ] Unit [mm]









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# **OLB PAD Assignment**

## GATE

38

Vgh

Vgh

603

604

| GAT | E            |        |         |     |       |
|-----|--------------|--------|---------|-----|-------|
|     | Scan1/ Scan2 |        |         |     |       |
| 1   | Test         | 40     | ∨gh     | 605 | Vdd   |
| 2   | Test         | 41     | Vgh     | 606 | NC    |
| 3   | NC           | 42     | NC      | 607 | SIN 2 |
| 4   | NC           | 43     | NC      | 608 | LR    |
| 5   | Vcom         |        |         | 609 | NC    |
| 6   | Vcom         | 69     | NC      | 610 | STV 2 |
| 7   | NC           | 70     | NC      | 611 | NC    |
| 8   | NC           | 71     | Vst0    | 612 | CPV   |
| 9   | NC           | 72     | Gate1   | 613 | XAO   |
| 10  | NC           | (0.85) | Vst1    | 614 | NC    |
| 11  | 0E           |        | Gate2   | 615 | OE    |
| 12  | NC           |        |         | 616 | NC    |
| 13  | XAO          | 578    |         | 617 | NC    |
| 14  | CPV          | 579    |         | 618 | NC    |
| 15  | NC           | 580    | Gate255 | 619 | NC    |
| 16  | STV 1        | 581    | Vst255  | 620 | Vcom  |
| 17  | NC           | 582    | Gate256 | 621 | Vcom  |
| 18  | LR           | 583    | NC      | 622 | NC    |
| 19  | SIN 1        | 584    | NC      | 623 | NC    |
| 20  | NC           | 585    | ∨gh     | 624 | Test  |
| 21  | ∨dd          | 586    | ∨gh     | 625 | Test  |
| 22  | Vdd          | 587    | ∨gh     |     |       |
| 23  | Mode 1       | 588    | ∨gh     | l   |       |
| 24  | Vss          | 589    | NC      | l   |       |
| 25  | Vss          | 590    | Vee     | l   |       |
| 26  | VsI          | 591    | Vee     | l   |       |
| 27  | VsI          | 592    | Vee     | l   |       |
| 28  | Vsl          | 593    | Vee     | l   |       |
| 29  | Vsh          | 594    | NC      | l   |       |
| 30  | Vsh          | 595    | Vsh     | l   |       |
| 31  | Vsh          | 596    | Vsh     | 1   |       |
| 32  | NC           | 597    | Vsh     |     |       |
| 33  | Vee          | 598    | VsI     |     |       |
| 34  | Vee          | 599    | VsI     |     |       |
| 35  | Vee          | 600    | VsI     |     |       |
| 36  | Vee          | 601    | Vss     |     |       |
| 37  | NC           | 602    | Vss     |     |       |
| 20  |              | 0000   |         |     |       |

Mode 1

Vdd

|     | Soon3         |     |         |     |       |
|-----|---------------|-----|---------|-----|-------|
| 1   | Scan3<br>Test | 40  | ∀gh     | 605 | Vdd   |
| 2   | Test          | 41  | √gh     | 606 | NC    |
| 3   | NC            | 42  | NC      | 607 | SIN 2 |
| 4   | NC            | 43  | NC      | 608 | LR    |
| - 5 | Vcom          |     |         | 609 | NC    |
| 6   | Vcom          | 69  | NC      | 610 | STV 2 |
| 7   | NC            | 70  | NC      | 611 | NC    |
| 8   | NC            | 71  | Vst0    | 612 | CPV   |
| 9   | NC            | 72  | Gate1   | 613 | XAO   |
| 10  | NC            | 433 | Vst1    | 614 | NC    |
| 11  | 0E            |     | Gate2   | 615 | OE    |
| 12  | NC            |     | ***     | 616 | NC    |
| 13  | XAO           | 578 |         | 617 | NC    |
| 14  | CPV           | 579 |         | 618 | NC    |
| 15  | NC            | 580 | Gate255 | 619 | NC    |
| 16  | STV 1         | 581 | Vst255  | 620 | Vcom  |
| 17  | NC            | 582 | Gate256 | 621 | Vcom  |
| 18  | LR            | 583 | Vst256  | 622 | NC    |
| 19  | SIN 1         | 584 | NC      | 623 | NC    |
| 20  | NC            | 585 | ∨gh     | 624 | Test  |
| 21  | ∨dd           | 586 | ∨gh     | 625 | Test  |
| 22  | Vdd           | 587 | ∨gh     |     |       |
| 23  | Mode 1        | 588 | ∨gh     | ]   |       |
| 24  | Vss           | 589 | NC      | ]   |       |
| 25  | Vss           | 590 | Vee     | ]   |       |
| 26  | VsI           | 591 | Vee     | 1   |       |
| 27  | VsI           | 592 | Vee     | 1   |       |
| 28  | VsI           | 593 | Vee     | 1   |       |
| 29  | Vsh           | 594 | NC      | 1   |       |
| 30  | Vsh           | 595 | Vsh     | 1   |       |
| 31  | Vsh           | 596 | Vsh     | 1   |       |
| 32  | NC            | 597 | Vsh     | 1   |       |
| 33  | Vee           | 598 | VsI     | 1   |       |
| 34  | Vee           | 599 | Vsl     | 1   |       |
| 35  | Vee           | 600 | VsI     |     |       |
| 36  | Vee           | 601 | Vss     | 1   |       |
|     |               |     |         |     |       |

37

38

39

NC

Vgh

Vgh

602

603

604

Vss

Mode 1

Vdd





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## **SIGNAL**

|     | Data 1 |     |         |
|-----|--------|-----|---------|
| 1   | Test   | 42  | Vcom    |
| 2   | Test   | 43  | Vcom    |
| 3   | NC     | 44  | NC      |
| 4   | NC     | 45  | NC      |
| - 5 | Vcom   | 46  | NC      |
| 6   | Vcom   | 47  | NC      |
| 7   | NC     | 48  | NC      |
| 8   | NC     | 100 | NC      |
| 9   | NC     | 68  | NC      |
| 10  | NC     | 69  | data1   |
| 11  | 0E     |     |         |
| 12  | NC     |     |         |
| 13  | XAO    | 460 | data392 |
| 14  | CPV    | 461 | data393 |
| 15  | NC     | 462 | NC      |
| 16  | STV 1  | 463 | NC      |
| 17  | NC     | 464 | NC      |
| 18  | LR     | 465 | NC      |
| 19  | SIN 1  | 466 | NC      |
| 20  | NC     | 467 | NC      |
| 21  | Vdd    | 468 | NC      |
| 22  | Vdd    | 469 | NC      |
| 23  | Mode 1 | 470 | NC      |
| 24  | NC     | 471 | NC      |
| 25  | Vss    | 472 | NC      |
| 26  | Vss    | 473 | NC      |
| 27  | Vsl    | 474 | NC      |
| 28  | VsI    | 475 | NC      |
| 29  | Vsl    | 476 | NC      |
| 30  | Vsh    | 477 | Vcom    |
| 31  | Vsh    | 478 | Vcom    |
| 32  | Vsh    | 479 | NC      |
| 33  | NC     | 480 | NC      |
| 34  | Vgl    | 481 | NC      |
| 35  | Vgl    | 482 | NC      |
| 36  | Vgl    | 483 | NC      |
| 37  | NC     | 484 | NC      |
| 38  | Vgh    | 485 | NC      |
| 39  | Vgh    | 486 | NC      |
| 40  | Vgh    | 487 | Test    |
| 41  | NC     | 488 | Test    |

|    | Data 2~4 |     |         |
|----|----------|-----|---------|
| 1  | Test     | 42  | Vcom    |
| 2  | Test     | 43  | Vcom    |
| 3  | NC       | 44  | NC      |
| 4  | NC       | 45  | NC      |
| 5  | Vcom     | 46  | NC      |
| 6  | Vcom     | 47  | NC      |
| 7  | NC       | 48  | data1   |
| 8  | NC       |     |         |
| 9  | NC       | 68  | data21  |
| 10 | NC       | 69  | data22  |
| 11 | NC       |     |         |
| 12 | NC       |     |         |
| 13 | NC       | 460 | data413 |
| 14 | NC       | 461 | data414 |
| 15 | NC       | 462 | NC      |
| 16 | NC       | 463 | NC      |
| 17 | NC       | 464 | NC      |
| 18 | NC       | 465 | NC      |
| 19 | NC       | 466 | NC      |
| 20 | NC       | 467 | NC      |
| 21 | NC       | 468 | NC      |
| 22 | NC       | 469 | NC      |
| 23 | NC       | 470 | NC      |
| 24 | NC       | 471 | NC      |
| 25 | NC       | 472 | NC      |
| 26 | NC       | 473 | NC      |
| 27 | NC       | 474 | NC      |
| 28 | NC       | 475 | NC      |
| 29 | NC       | 476 | NC      |
| 30 | NC       | 477 | Vcom    |
| 31 | NC       | 478 | Vcom    |
| 32 | NC       | 479 | NC      |
| 33 | NC       | 480 | NC      |
| 34 | NC       | 481 | NC      |
| 35 | NC       | 482 | NC      |
| 36 | NC       | 483 | NC      |
| 37 | NC       | 484 | NC      |
| 38 | NC       | 485 | NC      |
| 39 | NC       | 486 | NC      |
| 40 | NC       | 487 | Test    |
| 44 | NO       | 400 | T4      |

|    | Data 5 | _   |         |
|----|--------|-----|---------|
| 1  | Test   | 42  | Vcom    |
| 2  | Test   | 43  | Vcom    |
| 3  | NC     | 44  | NC      |
| 4  | NC     | 45  | NC      |
| 5  | Vcom   | 46  | NC      |
| 6  | Vcom   | 47  | NC      |
| 7  | NC     | 48  | data1   |
| 8  | NC     |     |         |
| 9  | NC     | 68  | data21  |
| 10 | NC     | 69  | data22  |
| 11 | NC     |     | ***     |
| 12 | NC     | *** |         |
| 13 | NC     | 460 | data413 |
| 14 | NC     | 461 | data414 |
| 15 | NC     | 462 | NC      |
| 16 | NC     | 463 | NC      |
| 17 | NC     | 464 | NC      |
| 18 | NC     | 465 | NC      |
| 19 | NC     | 466 | NC      |
| 20 | NC     | 467 | NC      |
| 21 | NC     | 468 | NC      |
| 22 | NC     | 469 | NC      |
| 23 | NC     | 470 | NC      |
| 24 | NC     | 471 | NC      |
| 25 | NC     | 472 | NC      |
| 26 | NC     | 473 | NC      |
| 27 | NC     | 474 | NC      |
| 28 | NC     | 475 | NC      |
| 29 | NC     | 476 | NC      |
| 30 | NC     | 477 | NC      |
| 31 | NC     | 478 | NC      |
| 32 | NC     | 479 | NC      |
| 33 | NC     | 480 | NC      |
| 34 | NC     | 481 | NC      |
| 35 | NC     | 482 | NC      |
| 36 | NC     | 483 | NC      |
| 37 | NC     | 484 | NC      |
| 38 | NC     | 485 | NC      |
| 39 | NC     | 486 | NC      |
| 40 | NC     | 487 | Test    |
| 41 | NC     | 488 | Test    |





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| Data 6 |    |    |
|--------|----|----|
| Test   | 42 | NC |
| Test   | 43 | NC |

|    | Data 6   | _   |          |
|----|----------|-----|----------|
| 1  | Test     | 42  | NC       |
| 2  | Test     | 43  | NC       |
| 3  | NC       | 44  | NC       |
| 4  | NC       | 45  | NC       |
| 5  | NC       | 46  | NC       |
| 6  | NC       | 47  | NC       |
| 7  | NC       | 48  | data1    |
| 8  | NC<br>NC |     |          |
| 9  | NC       | 68  | data21   |
| 10 | NC       | 69  | data22   |
| 11 | NC       |     | ****     |
| 12 | NC       |     |          |
| 13 | NC       | 460 | data413  |
| 14 | NC       | 461 | data414  |
| 15 | NC       | 462 | NC       |
| 16 | NC       | 463 | NC       |
| 17 | NC       | 464 |          |
| 18 | NC<br>NC | 465 | NC<br>NC |
| 19 | NC       | 466 | NC       |
| 20 | NC       | 467 | NC       |
| 21 | NC       | 468 | NC       |
| 22 | NC       | 469 | NC       |
| 23 | NC<br>NC | 470 | NC       |
| 24 | NC       | 471 | NC       |
| 25 | NC       | 472 | NC       |
| 26 | NC       | 473 | NC       |
| 27 | NC       | 474 | NC       |
| 28 | NC<br>NC | 475 | NC       |
| 29 | NC       | 476 | NC       |
| 30 | NC       | 477 | Vcom     |
| 31 | NC       | 478 | Vcom     |
| 32 | NC       | 479 | NC       |
| 33 | NC       | 480 | NC       |
| 34 | NC       | 481 | NC       |
| 35 | NC       | 482 | NC       |
| 36 | NC       | 483 | NC       |
| 37 | NC       | 484 | NC       |
| 38 | NC       | 485 | NC       |
| 39 | NC       | 486 | NC       |
| 40 | NC       | 487 | Test     |
| 41 | NC       | 488 | Test     |
|    |          |     |          |

|     | Data 7~9 | _   |         |
|-----|----------|-----|---------|
| 1   | Test     | 42  | Vcom    |
| 2   | Test     | 43  | Vcom    |
| 3   | NC       | 44  | NC      |
| 4   | NC       | 45  | NC      |
| - 5 | Vcom     | 46  | NC      |
| 6   | Vcom     | 47  | NC      |
| 7   | NC       | 48  | data1   |
| 8   | NC       |     |         |
| 9   | NC       | 68  | data21  |
| 10  | NC       | 69  | data22  |
| 11  | NC       |     |         |
| 12  | NC       |     |         |
| 13  | NC       | 460 | data413 |
| 14  | NC       | 461 | data414 |
| 15  | NC       | 462 | NC      |
| 16  | NC       | 463 | NC      |
| 17  | NC       | 464 | NC      |
| 18  | NC       | 465 | NC      |
| 19  | NC       | 466 | NC      |
| 20  | NC       | 467 | NC      |
| 21  | NC       | 468 | NC      |
| 22  | NC       | 469 | NC      |
| 23  | NC       | 470 | NC      |
| 24  | NC       | 471 | NC      |
| 25  | NC       | 472 | NC      |
| 26  | NC       | 473 | NC      |
| 27  | NC       | 474 | NC      |
| 28  | NC       | 475 | NC      |
| 29  | NC       | 476 | NC      |
| 30  | NC       | 477 | Vcom    |
| 31  | NC       | 478 | Vcom    |
| 32  | NC       | 479 | NC      |
| 33  | NC       | 480 | NC      |
| 34  | NC       | 481 | NC      |
| 35  | NC       | 482 | NC      |
| 36  | NC       | 483 | NC      |
| 37  | NC       | 484 | NC      |
| 38  | NC       | 485 | NC      |
| 39  | NC.      | 486 | NC      |
| 40  | NC       | 487 | Test    |
| 41  | NC       | 499 | Toot    |

|    | Data 10 |     |         |
|----|---------|-----|---------|
| 1  | Test    | 42  | Vcom    |
| 2  | Test    | 43  | Vcom    |
| 3  | NC      | 44  | NC      |
| 4  | NC      | 45  | NC      |
| 5  | Vcom    | 46  | NC      |
| 6  | Vcom    | 47  | NC      |
| 7  | NC      | 48  | data1   |
| 8  | NC      |     | 1       |
| 9  | NC      |     |         |
| 10 | NC      |     |         |
| 11 | NC      | 440 | data393 |
| 12 | . NC    | 441 | NC      |
| 13 | NC      |     |         |
| 14 | NC      | 461 | NC      |
| 15 | NC      | 462 | NC      |
| 16 | NC      | 463 | NC      |
| 17 | NC      | 464 | NC      |
| 18 | NC      | 465 | NC      |
| 19 | NC      | 466 | NC      |
| 20 | NC      | 467 | Vgl     |
| 21 | NC      | 468 | √gl     |
| 22 | NC      | 469 | Vcom    |
| 23 | NC      | 470 | Vcom    |
| 24 | NC      | 471 | NC      |
| 25 | NC      | 472 | Vgl     |
| 26 | NC      | 473 | √gl     |
| 27 | NC      | 474 | Vcom    |
| 28 | NC      | 475 | Vcom    |
| 29 | NC      | 476 | NC      |
| 30 | NC      | 477 | Vcom    |
| 31 | NC      | 478 | Vcom    |
| 32 | NC      | 479 | NC      |
| 33 | NC      | 480 | NC      |
| 34 | NC      | 481 | NC      |
| 35 | NC      | 482 | NC      |
| 36 | NC      | 483 | NC      |
| 37 | NC      | 484 | NC.     |
| 38 | NC      | 485 | NC      |
| 39 | NC      | 486 | NC NC   |
| 40 | NC      | 487 | Test    |
| 41 | NC      | 488 | Test    |

Note1: NC is CMO reserve.



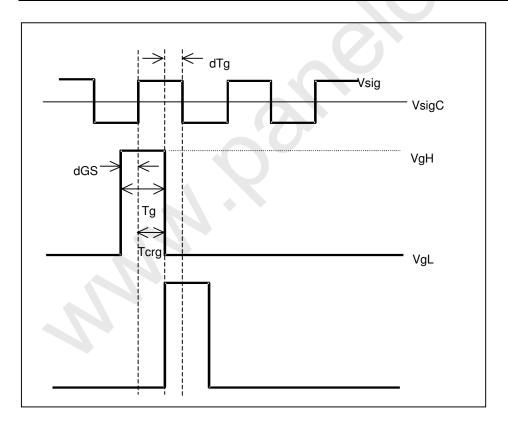


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# 3.3 Operating condition

The following table describes operating condition at CMO cell inspection

| Item      |                      | Cell Inspection Condition |
|-----------|----------------------|---------------------------|
| Gate      | Vgh                  | 23.0V                     |
|           | Vgl                  | -5.5V                     |
|           | Sig/Com Reverse Time | 20.9us                    |
|           | dGS                  | -1.1us                    |
|           | dTg1                 | 5.1us                     |
|           | Tg(Gate On Time)     | 14.7us                    |
|           | Tcrg(Writing Time)   | 13.7us                    |
| Frame Fre | quency               | 60Hz                      |
| Signal    | (Black) Vsig Center  | 6.71V                     |
|           | (BWhite) Vsig Center | 6.5V                      |
| Common    | Vcom Center          | 5.8V                      |
|           | Vcom Amplitude       | 0.00V                     |
|           | Vcom Adjustment      | ±0.5V                     |
| LC        | (Black)              | 0.04V                     |
|           | (White)              | 6.5V                      |





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# 4.0 Storage Conditions

High temperature or humidity may reduce the performance of panel. Please store LCD panel within the specified storage conditions. The recommended storage conditions are  $25 \,^{\circ}\text{C} \pm 5 \,^{\circ}\text{C}$ ,  $50 \pm 10 \,^{\circ}\text{RH}$ .







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# 5.0 Label and Packaging

### 5.1 Label

5.1.1 PANEL LABEL



T2243036NY03

## 5.1.2 PPBOX AND CARTON LABEL

| Panel Type       | 31WX03                |
|------------------|-----------------------|
| Quantity Case ID | (CMO internal define) |
| Note             | (CMO internal define) |
| Note1            | TLCD100CME20          |
| Note2            |                       |
|                  |                       |







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#### 5.2 Packaging

#### 5.2.1 PACKING SPECIFICATIONS

(1) 22 LCD TV Panels / 1 Box

(2) Box dimensions : 925(L) X 310 (W) X 625 (H)

(3) Weight: approximately 36.5Kg (22 panels per box)

### 5.2.1 PACKING METHOD

Figures 5-1 and 5-2 are the packing method

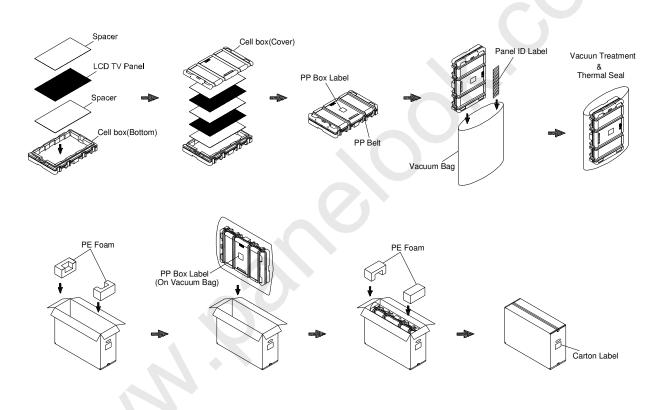


Figure.5-1 packing method



Global LCD Panel Exchange Center

Issued Date: Oct. 22, 2007 CMO Model No.: V315B1 - C03 Funai Model NO.: TLCD100CME20

Approval

Corner Protector:L1130\*50mm\*50mm L800\*50mm\*50mm

Pallet:L960\*W960\*H140mm

Pallet Stack:L960\*W960\*H1390mm

Gross:232kg

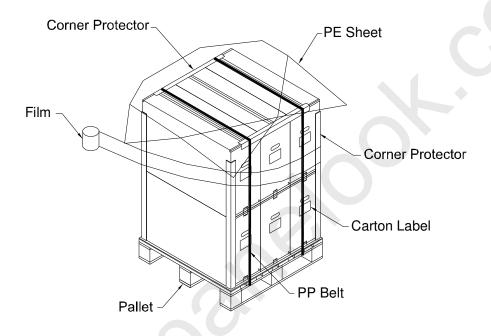


Figure.5-2 packing method





**Approval** 

## 6.0 Others

If any doubt arises in relation to items not defined in this agreement or any articles in this agreement, both parties shall discuss it with sincerity and arrive at a mutual decision.

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