

January 27, 2023

Engineering Change Notice of TFT LCD Module **Lightguide/FPC-Assembly Material**

Thank you for your continued support of our Kyocera TFT LCD modules. This letter is to inform you of an upcoming change of materials used in the production of the following TFT LCD module as below.

Thank you for your understanding and cooperation.

1. Product Effected

Part Number: T-55343GD035JU-LW-AIN

2. Background

We have been informed of an upcoming change to the backlight chip used in the backlight assembly and the shot key diode used on the FPC in the production of this display. The results of our testing have confirmed the following changes with the new components implemented.

3. Changes

| Material name | | Before change | After change |
|---------------|-----------------------|---------------|--------------|
| Backlight | LED | A | B |
| | Other component parts | No change | - |
| FPC | FPC substrate | No change | - |
| | Shot key diode | C | D |
| | Other component parts | No change | - |

Optical Characteristics: Following items are changed on the specification.

IF=20mA, Ta=25°C, $\theta = 0^\circ\text{C}$, $\phi = 0^\circ\text{C}$

| Item | Specification Before change | | | Specification After change | | |
|------------------|--------------------------------|------|------|-------------------------------|------|------|
| | Min. | Typ. | Max. | Min. | Typ. | Max. |
| Luminance(cd/m2) | - | 400 | - | 420 | 600 | - |

* No difference on chromaticity, contrast and other characteristics.

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Lighting Specifications: Following items are changed on the specification.

| Item | | Specification Before change | | | Specification After change | | |
|---------------------------|-----------------------------------|-----------------------------|------|------|----------------------------|------|------|
| | | Min. | Typ. | Max. | Min. | Typ. | Max. |
| Absolute Maximum Ratings | Forward Current IF (mA) | - | - | 35 | - | - | 35 |
| | Allowable Reverse Current IR (μA) | - | - | 50 | - | - | - |
| | LED Power Dissipation Pd(W) | - | - | 0.77 | - | - | 0.64 |
| Operation Characteristics | Forward Current IF(mA) | - | - | 20 | - | 20 | - |
| | Forward Voltage VF (V) | - | 19.2 | - | 15.3 | 17.1 | 18.6 |
| | Power PL (W) | - | - | 0.39 | - | 0.34 | 0.37 |

4. Reliability test result of LCD module

No changes from current part specification.

| No. | Item | Condition | n (input) | Result(OK) |
|-----|------------------------------|---|-----------|------------|
| 1 | High Temp.Operating | 70°C/Dry, 240hr Judge | 3 | 3 |
| 2 | Low Temp.Operating | -20°C/Dry, 240hr Judge | 3 | 3 |
| 3 | High Temp. Storage | 80°C/Dry, 240hr Judge | 3 | 3 |
| 4 | Low Temp. Storage | -30°C/Dry, 240hr Judge | 3 | 3 |
| 5 | High Temp.Humidity Operating | 40°C/90-95%RH, 240h Judge | 3 | 3 |
| 6 | Heat Shock Test Storage | -30⇄80°C、240cyc Judge | 3 | 3 |
| 7 | Vibration Test | Total fixed amplitude : 1.5mm Vibration Frequency : 10~55Hz 60sec/1cyc、X,Y,Z axis each 15min | 2 | 2 |

5. Implementation Timing: Estimated March 2024

6. Product name change:

Current Part Number: T-55343GD035JU-LW-AIN

New part Number: T-55343GD035JU-LW-AKN

7. Sample Timing: TBD

Thank you for your understanding and cooperation.