

August 10, 2026

To valued customer,

Document No. : DSHKB-2607-B01

KYOCERA CORPORATION

6 Takeda, Tobadono-cho, Fushimi-ku, Kyoto-shi,
Kyoto, Japan, 612-8501 Japan

Notice of Changes of LED Chips for LCD Module

Thank you for your continuing purchase of Kyocera LCD modules.
We would like to inform you that we will implement the following changes to the LED components (LED chips) used in our LCD modules, as detailed below.

1. Applicable Product

Products Affected: TCG084VGLACANN-AN00, TCG121WXLBABNN-AN20,
TCG121XGLPAPNN-AN20-TA

2. Reason for Changes

1) LED Chips
As the manufacturer of the LED chips currently in use has announced EOL (End of Life) for the product, we will change to LED chips that are available for procurement.

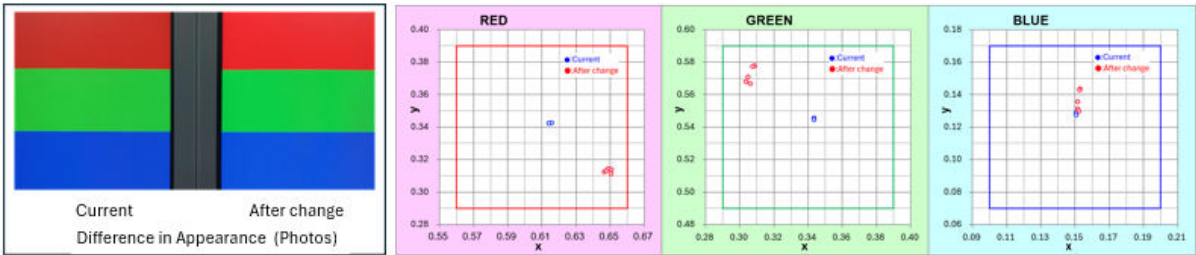
3. Details of Changes

1) LED Chips

	Current	After change
LED Manufacturer	Company L	(To be updated)
LED Part Number	O	P

4. Impact of the Changes

• Optical Characteristics
The chromaticity of red and green will shift, although it will remain within the current specification range. Accordingly, the specification sheet will be revised by March 2027 so that the specification center values align with the updated characteristics.



- Electrical Characteristics

No impact on current consumption or noise characteristics.

- Part Number Change

There will not be a change to the ordering part numbers. For product management purposes, our internal control number is appended to the end of the product name.

Ordering Part Number	Factory Internal Control Number
TCG084VGLACANN-AN00	TCG084VGLACANN-AN00-A2
TCG121WXLBABNN-AN20	TCG121WXLBABNN-AN20-A1
TCG121XGLPAPNN-AN20-TA	TCG121XGLPAPNN-AN20-TA-A4

5. Schedule

- Evaluation Samples

Sample Request by: 9/17/2026

Sample Delivery: February 2027

Sample Approval by: 6/15/2027

- Last Time Buy (LTB) for Current Products

LTB Date: 9/11/2027

LTS: September 2027

6. Timing of Changeover

The transition to the new specifications will be implemented sequentially from August 2027 onward, once the inventory of the current LED components has been depleted.

We appreciate your understanding and cooperation.

Sincerely,

Kyocera International, Inc.

Display Division

August 10, 2026

To valued customer,

Document No. : DSHKB-2607-B01

KYOCERA CORPORATION

6 Takeda, Tobadono-cho, Fushimi-ku, Kyoto-shi,

Kyoto, Japan, 612-8501 Japan

Notice of Changes of Source Driver IC and LED Chips

Thank you for your continuing purchase of Kyocera LCD modules.

We would like to inform you that we will implement the following changes to the source driver IC and LED components (LED chips) used in our LCD modules, as detailed below.

1. Applicable Product

Product Name: TCG101WXLPAFA-AA20, TCG101WXLPAANN-AN20

2. Reason for Changes

1) Source Driver IC

As the current IC has reached EOL (End of Life), we will migrate to a compatible IC in order to maintain a stable supply of the product.

2) LED Chips

As the manufacturer of the LED chips currently in use has announced EOL (End of Life) for the product, we will change to LED chips that are available for procurement.

3. Details of Changes

1) Source Driver IC

	Current	After change
IC Manufacturer	Company S	Company T
IC Part Number	V	W

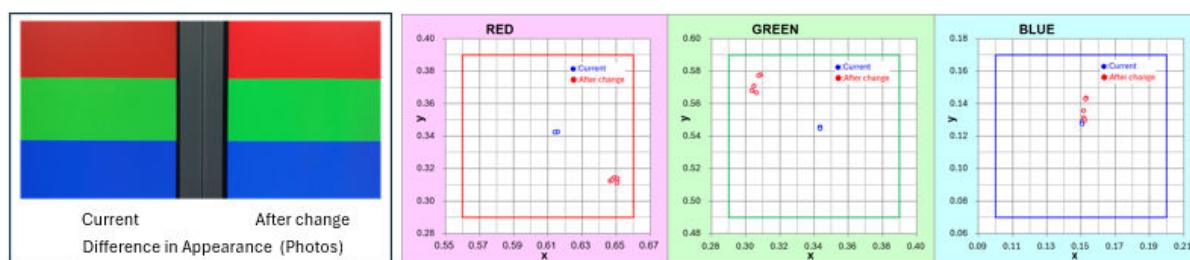
2) LED Chips

	Current	After change
LED Manufacturer	Company L	(To be updated)
LED Part Number	O	P

4. Impact of the Changes

• Optical Characteristics

The chromaticity of red and green will shift, although it will remain within the current specification range. Accordingly, the specification sheet will be revised by March 2027 so that the specification center values align with the updated characteristics.



※The above data was obtained through verification conducted using our representative models.

- Electrical Characteristics

No impact on current consumption or noise characteristics.

- Product Name

There will not be a change to the ordering part numbers. For product management purposes, our internal control number is appended to the end of the product name.

Ordering Part Number	Factory Internal Control Number
TCG101WXLPAAF-A-20	TCG101WXLPAAF-A-20-A3 TCG101WXLPAAF-A-20-A5
TCG101WXLPAANN-A-20	TCG101WXLPAANN-A-20-A3 TCG101WXLPAANN-A-20-A5

5. Schedule

- Evaluation Samples

Sample Request by: 9/17/2026

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6. Timing of Changeover

The transition to the new specifications will be implemented sequentially from August 2027 onward, once the inventory of the current LED components has been depleted.

We appreciate your understanding and cooperation.

Sincerely,

Kyocera International, Inc.

Display Division

Notice of Changes of Source Driver IC and LED Chips

2026/07/30

Product Control Section
Display Engineering Department
Corporate Automotive System Group

Approved	Checked	Prepared
H.Kinugasa	K.Nishina	Shibano

Regarding the impact on characteristics

Color intensity shifts within the standard.

Since compatible ICs are adopted, there is no impact on other characteristics as shown in the table below.

Product Specifications	substitute
External dimensions	No changes
Display Modes	No changes
Operating Temperature Range	No changes
Storage Temperature Range	No changes
LCD Power Supply Voltage	No changes
LCD Current Consumption	TBD*1
Interface	No changes
Timing Characteristics	No changes
Noise Characteristics	TBD*2
Response Speed	No changes
Brightness	No changes
Contrast	No changes
Viewing Angle	No changes
chromaticity	shift within the specification range*3

Product Specifications	Current Models	substitute
LED	Company L Product O	CompanyL Product P
Source driver IC	Company M Product Q	Company N Product R

*1: As the IC will be changed, there is a possibility that the current consumption may vary. However, since the design will also be updated, we were able to achieve the same or lower current consumption in previous developments using the applicable IC.

*2: As the IC will be changed, there is a possibility that the noise immunity characteristics may vary. In particular, since we are unable to verify compatibility with the customer's actual equipment on our side, we kindly ask you to evaluate the submitted samples in your environment. In previous developments using the applicable IC, comparative verification using our standard test fixture was conducted, and we have confirmed performance at an equivalent level.

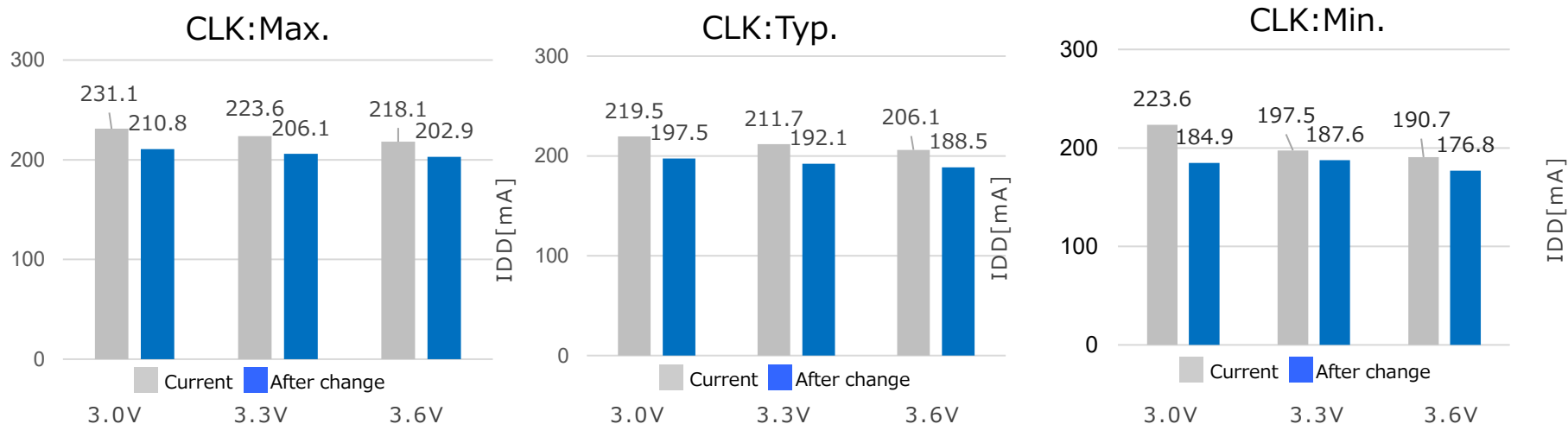
*3: Shifts within the current specification 'standard frame

Please refer to the following pages for details

*1 Current Consumption

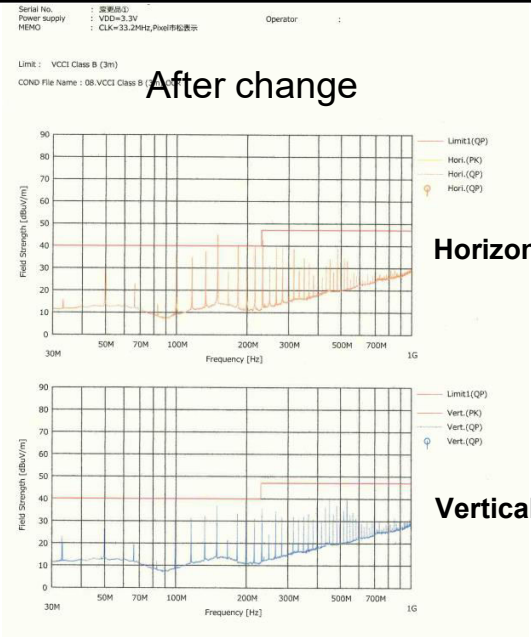
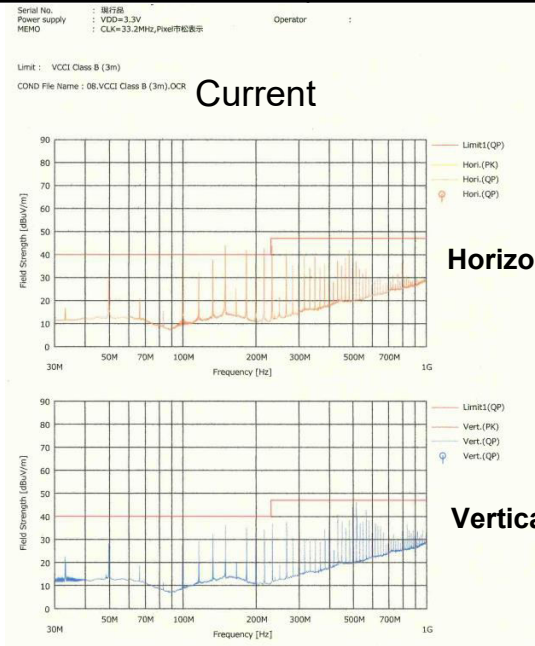
Before and After Source Driver IC Change

LCD driving condition	Room temp., pixel checker
Evaluation Criterion	Equivalent to the current product



Current consumption is comparable to that of the current product

LCD driving condition	Typ.33.2MHz、Room temp., pixel checker
Evaluation Criterion	Equivalent to the current product



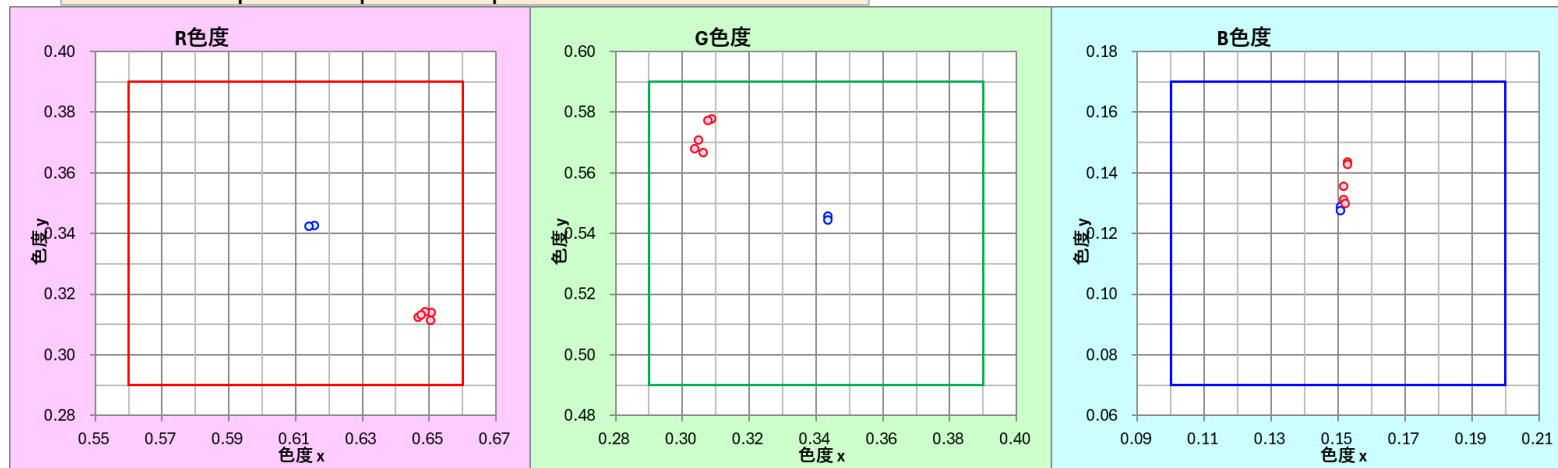
Electromagnetic Interference (EMI) characteristics is comparable to that of the current product

*3 Chromaticity: Current LED vs. Alternative LED

The chromaticity will shift within the specification range.

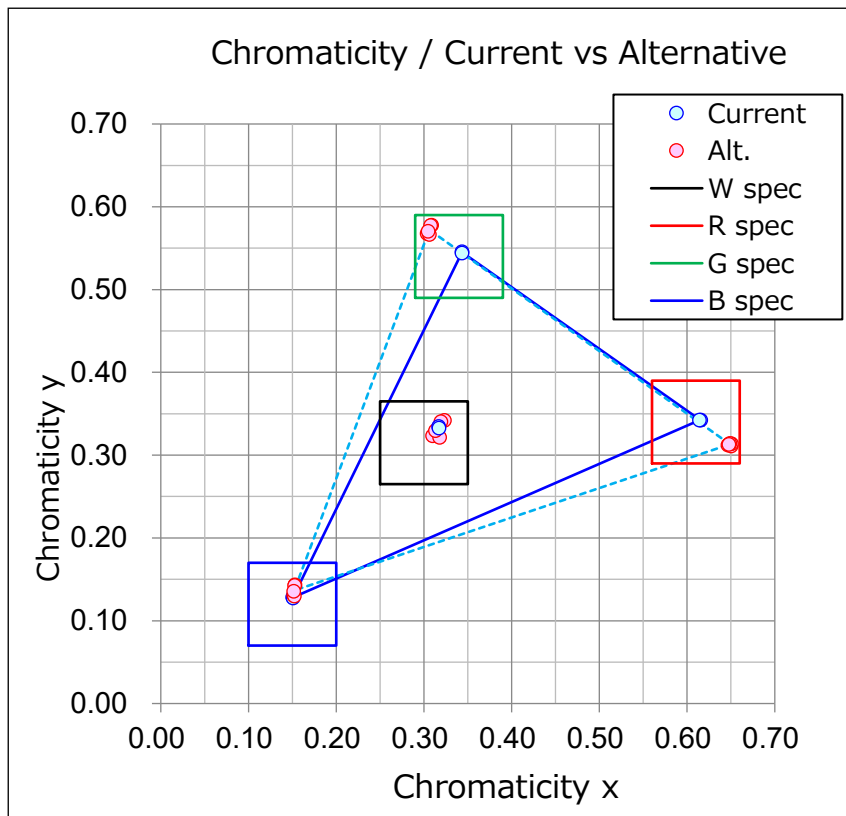
Component	Current	After Change
LED	Company L Product O	Company L Product P

Sample Examples of Representative Models



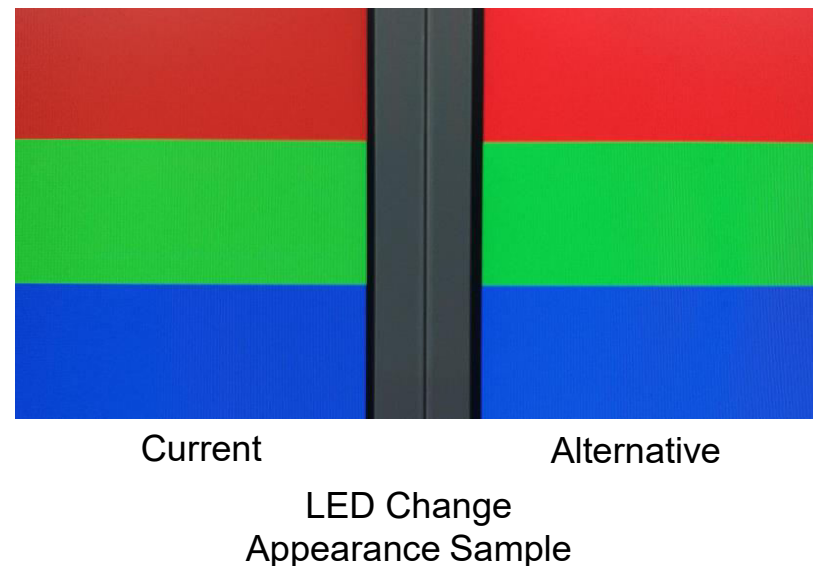
○: Current product
○: Substitutes

*3 Chromaticity: Current LED vs. Alternative LED



*1: The shift will remain within the specification range of the current specification.

By using the alternative product, the RGB chromaticity will remain within the chromaticity specification range of the current specification. However, we will continue to evaluate the chromaticity specification values and report the results at a later date.



As this is our standard product, we are unable to disclose details of the supply chain. However, the alternative source driver IC to be adopted this time has the following track record of use by our company, and there are no issues in terms of supply stability or performance.

FY23-FY26	Alternative Source Driver IC
Number of Adopted Models	337
Purchase Quantity (pcs)	420,000



KYOCERA Corporation

Rev	Mark	Name	Date	Contents
00	None	M.Shibano	2026/07/30	Initial release
01				
02				
03				