

# Product Change Notification

PCN26-7-Rev A\_AP series – Yellow/Green LED change

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**C&K**

2 rue Berthollet - B.P. 359 F-39105 Dole Cedex - France  
Tel : +33 (0)3 84 72 81 12      [www.ckswitches.com](http://www.ckswitches.com)

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## Document revision

| Revision | Date              | Description | Author    |
|----------|-------------------|-------------|-----------|
| A        | March, 17th, 2026 | Creation    | Lina Guan |

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## 1. Purpose

C&K has been notified by its supplier, the end of production of several LEDs.

This discontinuation from KINGBRIGHT (supplier A), without direct replacement proposal, is leading C&K to modify its AP lighted series by using the closest replacement from the market.

C&K switches selected ORMSSEN (supplier B) to replace the bicolor Yellow/Green LED in its products.

The impact for our customers will be some differences in the lighting characteristics.

## 2. Overview

### 2.1 Change definition

**Supplier A: KINGBRIGHT** manufacturer of the bicolor Yellow-Green LED, reference **WP967-CKC8**.

#### Selection Guide

| Part No.   | Dice                     | Lens Type      | Iv (mcd) [2]<br>@ 20mA |      | Viewing<br>Angle [1] |
|------------|--------------------------|----------------|------------------------|------|----------------------|
|            |                          |                | Min.                   | Typ. | 2θ1/2                |
| WP967-CKC8 | Yellow (GaAsP/GaP)       | WHITE DIFFUSED | 2.6                    | 10   | 60°                  |
|            | Super Bright Green (GaP) |                | 2.6                    | 20   |                      |

#### Electrical / Optical Characteristics at TA=25°C

| Symbol                | Parameter                | Device                       | Typ.       | Max.       | Units | Test Conditions            |
|-----------------------|--------------------------|------------------------------|------------|------------|-------|----------------------------|
| $\lambda_{peak}$      | Peak Wavelength          | Yellow<br>Super Bright Green | 590<br>565 |            | nm    | I <sub>F</sub> =20mA       |
| $\lambda_D$ [1]       | Dominant Wavelength      | Yellow<br>Super Bright Green | 588<br>568 |            | nm    | I <sub>F</sub> =20mA       |
| $\Delta\lambda_{1/2}$ | Spectral Line Half-width | Yellow<br>Super Bright Green | 35<br>30   |            | nm    | I <sub>F</sub> =20mA       |
| C                     | Capacitance              | Yellow<br>Super Bright Green | 20<br>15   |            | pF    | V <sub>F</sub> =0V; f=1MHz |
| V <sub>F</sub> [2]    | Forward Voltage          | Yellow<br>Super Bright Green | 2.1<br>2.2 | 2.5<br>2.5 | V     | I <sub>F</sub> =20mA       |

#### Absolute Maximum Ratings at TA=25°C

| Parameter                       | Yellow              | Super Bright Green | Units |
|---------------------------------|---------------------|--------------------|-------|
| Power dissipation               | 75                  | 62.5               | mW    |
| DC Forward Current              | 30                  | 25                 | mA    |
| Peak Forward Current [1]        | 140                 | 140                | mA    |
| Operating / Storage Temperature | -40°C To +85°C      |                    |       |
| Lead Solder Temperature [2]     | 260°C For 3 Seconds |                    |       |
| Lead Solder Temperature [3]     | 260°C For 5 Seconds |                    |       |

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**Supplier B: ORMSEN** manufacturer of the bicolor Yellow-Green LED, reference **OS-RGY234-2W-TR1(CK)**.

The color, luminous intensity, the viewing angle and ratings of new Yellow-Green LED are somewhat different to the existing one.

## Device Selection Guide

| Chip Materials | Emitted Color | Resin Color    |
|----------------|---------------|----------------|
| GaP            | Green         | White Diffused |
| GaP            | Yellow        |                |

## Absolute Maximum Ratings (Ta=25°C)

| Parameter                               | Symbol           |     | Rating            | Unit |
|-----------------------------------------|------------------|-----|-------------------|------|
| Continuous Forward Current              | I <sub>F</sub>   | G/Y | 30                | mA   |
| Peak Forward Current (Duty 1/10 @ 1KHZ) | I <sub>FP</sub>  | G/Y | 75                | mA   |
| Reverse Voltage                         | V <sub>R</sub>   | G/Y | 1.1               | V    |
| Power Dissipation                       | P <sub>d</sub>   | G/Y | 75                | mW   |
| Operating Temperature                   | T <sub>opr</sub> | G/Y | -40 ~ +85         | °C   |
| Storage Temperature                     | T <sub>stg</sub> | G/Y | -40 ~ +85         | °C   |
| Soldering Temperature                   | T <sub>sol</sub> | G/Y | 260 °C for 5 sec. |      |

## Electro-Optical Characteristics (Ta=25°C)

| Parameter                    | Symbol            |     | Min   | Typ   | Max   | Unit | Condition |
|------------------------------|-------------------|-----|-------|-------|-------|------|-----------|
| Luminous Intensity           | I <sub>v</sub>    | G   | 8     | 25    | ----- | mcd  | IF=20mA   |
|                              |                   | Y   | 8     | 25    | ----- |      |           |
| Viewing Angle                | 2θ <sub>1/2</sub> | G/Y | ----- | 90    | ----- | deg  | IF=20mA   |
| Peak Wavelength              | λ <sub>p</sub>    | G   | ----- | 575   | ----- | nm   | IF=20mA   |
|                              |                   | Y   |       | 595   |       |      |           |
| Dominant Wavelength          | λ <sub>d</sub>    | G   | ----- | 570   | ----- | nm   | IF=20mA   |
|                              |                   | Y   |       | 590   |       |      |           |
| Spectrum Radiation Bandwidth | Δλ                | G   | ----- | 20    | ----- | nm   | IF=20mA   |
|                              |                   | Y   |       | 20    |       |      |           |
| Forward Voltage              | V <sub>F</sub>    | G/Y | 1.7   | 2.0   | 2.4   | V    | IF=20mA   |
| Reverse Current              | I <sub>R</sub>    | G/Y | ----- | ----- | 10    | μA   | VR=1.1V   |

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### 3. Impact of Change and Qualification

#### 3.1 Impact of Change:

There is no change to the form, fit and function of the switch.

#### 3.2 Qualification method:

As the modification only affects the LED and its integration in the switch, the qualification focuses solely on the LED performance:

- Luminosity, Chromaticity Coordinates
- Endurance test
- Climatic tests
- Salt spray test
- Soldering test

The qualification has been completed in C&K, test report is available upon request.

Samples for qualification are already available upon request.

### 4. Part numbers affected

All item featuring **Yellow/Green LED** are affected by this notification.

| Material N° | Material Description |
|-------------|----------------------|
| AP4C208SZBE | SWITCH AP4C208SZBE   |
| AP4D208TWBE | SWITCH AP4D208TWBE   |
| AP4D208TZBE | SWITCH AP4D208TZBE   |
| AP2E208SZBE | SWITCH AP2E208SZBE   |
| AP4D208SZBE | SWITCH AP4D208SZBE   |

### 5. Date of application

Effective immediately. There is no remaining stock of LEDs WP967-CKC8 from Supplier A.  
All finished products are now manufactured using LEDs OS-RGY234-2W-TR1(CK) from Supplier B.

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## 6. Conditions of application

Pricing and stock handling policy:

- Pricing: Any pricing and other sales conditions remain valid.
- Stock handling: no obsolescence and no specification modification are applied on any P/N. No return or scrap for obsolescence will be accepted

## 7. Customer qualification

C&K recommends its customers to carry on the lighting compatibility check and qualifications they feel necessary to make sure that they will be ready at the date of application. Switching characteristics are not modified in order to minimize the customer impact and make easier the modification acceptance.

## 8. Acknowledgement

We kindly ask you to acknowledge receipt of this information to your sales representative so C&K can start planning the phase in – out process accordingly.

Please forward your requirements in terms of samples & qualification files at the following email address:  
[lquan@Littelfuse.com](mailto:lquan@Littelfuse.com)

## 9. Support

For any question, please contact your sales representative

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