

Product Change Notification

PCN26-10-Rev A_ELUM series – Blue LED change

C&K

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Document revision

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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 ELUM lighted series by using the closest replacement from the market.
C&K switches selected ORMSSEN (supplier B) to replace the Blue 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 Blue LED, reference **WP964-CKC32**.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Typ.	θ1/2
WP964-CKC32	Blue (InGaN)	Water Clear	700	1500	30°

Notes:

- θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
- Luminous intensity/ luminous Flux: +/-15%.
- Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Blue	460		nm	IF=20mA
λD [1]	Dominant Wavelength	Blue	465		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Blue	25		nm	IF=20mA
C	Capacitance	Blue	100		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Blue	3.3	4	V	IF=20mA
IR	Reverse Current	Blue		50	uA	VR = 5V

Absolute Maximum Ratings at TA=25°C

Parameter	Blue	Units
Power dissipation	120	mW
DC Forward Current	30	mA
Peak Forward Current [1]	150	mA
Reverse Voltage	5	V
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 Blue LED, reference **OS-RSUB234C-TR1(CK)**.

The color, luminous intensity, the viewing angle and ratings of new Blue LED are very close to the existing one.

Device Selection Guide

Chip Materials	Emitted Color	Resin Color
InGaN	Blue	Water Clear

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Rating	Unit
Continuous Forward Current	IF	30	mA
Peak Forward Current (Duty 1/10 @ 1KHZ)	IFP	100	mA
Reverse Voltage	VR	5	V
Power Dissipation	Pd	100	mW
Operating Temperature	Topr	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +85	°C
Soldering Temperature	Tsol	260 °C for 5 sec.	

Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Iv	700	1500	-----	mcd	IF=20mA
Viewing Angle	2θ1/2	-----	30	-----	deg	IF=20mA
Peak Wavelength	λp	-----	465	-----	nm	IF=20mA
Dominant Wavelength	λd	-----	470	-----	nm	IF=20mA
Spectrum Radiation Bandwidth	Δλ	-----	28	-----	nm	IF=20mA
Forward Voltage	VF	2.6	3.0	3.6	V	IF=20mA
Reverse Current	IR	-----	-----	10	μA	VR=5V

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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 **Blue LED** are affected by this notification.

Material N°	Material Description
ELUMEESAQ7C12	SWITCH ELUMEESAQ7C12
ELUMEESAQ7C22	SWITCH ELUMEESAQ7C22
ELUMEETHQ7C12	SWITCH ELUMEETHQ7C12
ELUMEETHQ7C22	SWITCH ELUMEETHQ7C22
ELUMOASAQ7C12	SWITCH ELUMOASAQ7C12
ELUMOASAQ7C22	SWITCH ELUMOASAQ7C22
ELUMOASAQ7C22ST	SWITCH ELUMOASAQ7C22ST
ELUMOATHQ7C12	SWITCH ELUMOATHQ7C12
ELUMOATHQ7C22	SWITCH ELUMOATHQ7C22

5. Date of application

Effective immediately. There is no remaining stock of LEDs WP964-CKC32 from Supplier A).
All finished products are now manufactured using LEDs OS-RSUB234C-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

9. Support

For any question, please contact your sales representative

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