

Product Change Notification

PCN26-14-Rev A_DIGITAST series – Yellow LED change

C&K

2 rue Berthollet - B.P. 359 F-39105 Dole Cedex - France
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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 DIGITAST lighted series by using the closest replacement from the market.
C&K switches selected ORMSSEN (supplier B) to replace the Yellow 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 Yellow LED, reference **L-7104YD-BJ**.

SELECTION GUIDE

Part Number	Emitting Color (Material)	Lens Type	Iv (mcd) @ 10mA ^[2]		Viewing Angle ^[1]
			Min.	Typ.	2θ1/2
L-7104YD-BJ	■ Yellow (GaAsP/GaP)	Yellow Diffused	8	15	50°

Notes:

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

ELECTRICAL / OPTICAL CHARACTERISTICS at T_A=25°C

Parameter	Symbol	Emitting Color	Value		Unit
			Typ.	Max.	
Wavelength at Peak Emission I _F = 10mA	λ _{peak}	Yellow	590	-	nm
Dominant Wavelength I _F = 10mA	λ _{dom} ^[1]	Yellow	588	-	nm
Spectral Bandwidth at 50% Φ REL MAX I _F = 10mA	Δλ	Yellow	35	-	nm
Capacitance	C	Yellow	20	-	pF
Forward Voltage I _F = 10mA	V _F ^[2]	Yellow	1.95	2.4	V
Reverse Current (V _R = 5V)	I _R	Yellow	-	10	μA
Temperature Coefficient of λ _{peak} I _F = 10mA, -10°C ≤ T ≤ 85°C	TC _{λpeak}	Yellow	0.12	-	nm/°C
Temperature Coefficient of λ _{dom} I _F = 10mA, -10°C ≤ T ≤ 85°C	TC _{λdom}	Yellow	0.07	-	nm/°C
Temperature Coefficient of V _F I _F = 10mA, -10°C ≤ T ≤ 85°C	TC _V	Yellow	-2	-	mV/°C

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ABSOLUTE MAXIMUM RATINGS at $T_A=25^{\circ}\text{C}$

Parameter	Symbol	Value	Unit
Power Dissipation	P_D	75	mW
Reverse Voltage	V_R	5	V
Junction Temperature	T_J	110	$^{\circ}\text{C}$
Operating Temperature	T_{op}	-40 To +85	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-40 To +85	$^{\circ}\text{C}$
DC Forward Current	I_F	30	mA
Peak Forward Current	$I_{FM}^{[1]}$	140	mA
Electrostatic Discharge Threshold (HBM)	-	8000	V
Thermal Resistance (Junction / Ambient)	$R_{th JA}^{[2]}$	690	$^{\circ}\text{C/W}$
Thermal Resistance (Junction / Solder point)	$R_{th JS}^{[2]}$	450	$^{\circ}\text{C/W}$
Lead Solder Temperature ^[3]		260 $^{\circ}\text{C}$ For 3 Seconds	
Lead Solder Temperature ^[4]		260 $^{\circ}\text{C}$ For 5 Seconds	

f

Supplier B: ORMSEN manufacturer of the Yellow LED, reference **OS-RY264D-T10(CK)**.

The color, luminous intensity and ratings of new Yellow LED are very close to the existing one.
The viewing angle is somewhat a little bit different to the existing one.

Device Selection Guide

Chip Materials	Emitted Color	Resin Color
GaP	Yellow	Yellow Diffused

Absolute Maximum Ratings ($T_A=25^{\circ}\text{C}$)

Parameter	Symbol	Rating	Unit
Continuous Forward Current	I_F	30	mA
Peak Forward Current (Duty 1/10 @ 1KHZ)	I_{FP}	75	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_d	75	mW
Operating Temperature	T_{opr}	-40 ~ +85	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-40 ~ +85	$^{\circ}\text{C}$
Soldering Temperature	T_{sol}	260 $^{\circ}\text{C}$ for 5 sec.	

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Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Iv	6	15	-----	mcd	IF=10mA
Viewing Angle	2θ1/2	-----	60	-----	deg	IF=10mA
Peak Wavelength	λp	-----	595	-----	nm	IF=10mA
Dominant Wavelength	λd	-----	590	-----	nm	IF=10mA
Spectrum Radiation Bandwidth	Δλ	-----	18	-----	nm	IF=10mA
Forward Voltage	VF	1.7	2.0	2.5	V	IF=10mA
Reverse Current	IR	-----	-----	10	μA	VR=5V

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.

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4. Part numbers affected

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

Material N°	Material Description
750010-2002	SERL BK YE AU OA
750010-2005	Serl Bk Ye 7.62 Au Oa
750010-2089	Serl Bk Ye 7.62 Au Oa 0100wh
750010-2090	Serl Bk Ye 7.62 Au Oa 0001wh
750010-2091	Serl Bk Ye 7.62 Au Oa 0002wh
750010-2092	Serl Bk Ye 7.62 Au Oa 0003wh
750010-2093	Serl Bk Ye 7.62 Au Oa 0004wh
750010-2094	Serl Bk Ye 7.62 Au Oa 0005wh
750010-2095	Serl Bk Ye 7.62 Au Oa 0006wh
750010-2096	Serl Bk Ye 7.62 Au Oa 0007wh
750010-2097	Serl Bk Ye 7.62 Au Oa 0008wh
750010-2098	Serl Bk Ye 7.62 Au Oa 0009wh
750010-3001	SER2L BK YE RD AU OA
750010-3004	SER2L BK RD YE AU OA
750010-3005	SER2L BK YE YE AU OA
750010-5005	Setl Bk Ye 7.62 Au Oa
750010-5017	SETL BK YE AU OA 3161WH
750010-5030	SETL BK YE AU OA 4375WH
750010-6001	SET2L BK RD YE AU OA
750010-6003	SET2L BK YE YE AU OA
750010-6006	SET2L BK GN YE AU OA
750010-6007	SET2L BK YE GN AU OA
750010-8002	SETIL BK YE AU OA
750010-8005	Setil Bk Ye 7.62 Au Oa
750011-0011	SE2TLL BK YE AU OA D0011
750011-0012	SE2TLL BK YE AU OA 3171WH
750011-1002	SE2TLR BK YE AU OA
750011-2000	SE2T2L BK YE RD AU OA
750011-4002	SE3TLL BK YE AU OA
750012-4000	SETI2L BK RD YE AU OA
750012-4003	SETI2L BK YE RD AU OA
750012-5002	SETV2L BK YE YE AU OA
750012-5003	SETV2L BK YE GN AU OA
750012-6002	SETVL BK YE AU OA
750020-2002	SERL WH YE AU OA

Material N°	Material Description
750020-2005	Serl Wh Ye 7.62 Au Oa
750020-5002	SETL WH YE AU OA
750020-5005	Setl Wh Ye 7.62 Au Oa
750020-6003	SET2L WH YE GN AU OA
750020-8002	SETIL WH YE AU OA
750022-4003	SETI2L WH GN YE AU OA
750022-4004	SETI2L WH YE RD AU OA
750030-2002	SERL GY YE AU OA
750030-3003	SER2L GY YE GN AU OA
750030-5002	SETL GY YE AU OA
750030-5005	Setl Gy Ye 7.62 Au Oa
750030-6001	SET2L GY RD YE AU OA
750030-6005	SET2L GY YE GN AU OA
750030-8002	SETIL GY YE AU OA
750030-8005	Setil Gy Ye 7.62 Au Oa
750031-0002	SE2TLL GY YE AU OA
750031-2003	SE2T2L GY YE YE AU OA
750032-4001	SETI2L GY YE GN AU OA
750032-4003	SETI2L GY GN YE AU OA
750050-2002	SERL OG YE AU OA
750050-5002	SETL OG YE AU OA
750060-2002	SERL GN YE AU OA
750060-5005	Setl Gn Ye 7.62 Au Oa
750060-6000	SET2L GN RD YE AU OA
750060-6002	SET2L GN GN YE AU OA
750060-6004	SET2L GN YE GN AU OA
750061-0002	SE2TLL GN YE AU OA
750061-1000	SE2TLR GN YE AU OA
750070-5002	SETL YE YE AU OA
750070-6000	SET2L YE RD YE AU OA
750070-6005	SET2L YE GN YE AU OA
750072-3002	SETCL YE YE AU OA
750080-2002	SERL BU YE AU OA
750080-2005	Serl Bu Ye 7.62 Au Oa
750080-3001	SER2L BU GN YE AU OA

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Material N°	Material Description
750080-5002	SETL BU YE AU OA
750080-6000	SET2L BU RD YE AU OA
750080-8002	SETIL BU YE AU OA
750081-2002	SE2T2L BU YE YE AU OA
750550-2002	SERL RD YE AU OA
750550-2005	Serl Rd Ye 7.62 Au Oa
750550-3002	SER2L RD YE AU OA
750550-3010	SER2L RD GN YE AU OA 1005BK
750550-5002	SETL RD YE AU OA
750550-5005	Setl Rd Ye 7.62 Au Oa
750550-6000	SET2L RD RD YE AU OA
750550-6004	SET2L RD YE RD AU OA
750550-8002	SETIL RD YE AU OA
750550-8005	Setil Rd Ye 7.62 Au Oa
750552-4001	SETI2L RD YE RD AU OA
752000-0007	SERUL YE AU EE
752010-2002	SERL BK YE AU EE
752010-2005	Serl Bk Ye 7.62 Au Ee
752010-3000	SER2L BK RD YE AU EE
752010-3004	SER2L BK YE RD AU EE
752010-3005	SER2L BK YE YE AU EE
752010-5002	SETL BK YE AU EE
752010-5005	Setl Bk Ye 7.62 Au Ee
752010-6001	SET2L BK RD YE AU EE
752010-6002	SET2L BK YE RD AU EE
752010-6006	SET2L BK YE YE AU EE
752020-2002	SERL WH YE AU EE
752020-5002	SETL WH YE AU EE
752030-2002	SERL GY YE AU EE
752030-3001	SER2L GY RD YE AU EE
752030-5002	SETL GY YE AU EE
752030-6001	SET2L GY GN YE AU EE
752030-6004	SET2L GY YE GN AU EE
752032-3000	SETCL GY YE AU EE
752050-2002	SERL OG YE AU EE

Material N°	Material Description
752050-6000	SET2L OG RD YE AU EE
752050-6001	SET2L OG YE YE AU EE
752050-6002	SET2L OG YE RD AU EE
752050-6003	SET2L OG YE GN AU EE
752052-4000	SETI2L OG RD YE AU EE
752052-4001	SETI2L OG YE RD AU EE
752060-2002	SERL GN YE AU EE
752060-5002	SETL GN YE AU EE
752070-2002	SERL YE YE AU EE
752070-2003	Serl Ye Ye 7.62 Au Ee
752070-5002	SETL YE YE AU EE
752070-8002	SETIL YE YE AU EE
752080-2002	SERL BU YE AU EE
752080-3001	SER2L BU RD YE AU EE
752080-5002	SETL BU YE AU EE
752080-6009	SET2L BU YE LEFT LED AU EE
752550-2002	SERL RD YE AU EE
752550-2005	Serl Rd Ye 7.62 Au Ee
752550-3001	SER2L RD YE GN AU EE
752550-5002	SETL RD YE AU EE
752550-6002	SET2L RD YE GN AU EE
752550-6003	SET2L RD RD YE AU EE
753000-0006	Serul Ye 7.62 Au Oa
753000-0007	SERUL YE AU OA
753000-0010	SERU2L RD YE AU OA
753000-0014	SERU2L YE RD AU OA
753000-0015	SERU2L YE GN AU OA
753000-0016	SERU2L YE YE AU OA
753000-0036	Serul Ye 7.62 Au Oa Braun
753000-0037	SERU2L RD YE AU OA BRAUN
753000-0039	SERU2L GN YE AU OA BRAUN
753000-0050	SERU2L YE GN AU OA BRAUN

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5. Date of application

Effective immediately. There is no remaining stock of LEDs **L-7104YD-BJ** from Supplier A.
All finished products are now manufactured using LEDs **OS-RY264D-T10(CK)** from Supplier B.

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:
lguan@Littelfuse.com

9. Support

For any question, please contact your sales representative

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