



Tel: 218-681-6674

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www.digikey.com

701 Brooks Ave. South, Thief River Falls, MN 56701

## Change Notice

### Requestor/Vendor Information

File/Reference #: 6737130b-ad60-4d0f-b5ba-0f13b236bfd8 Date: 06/15/2012  
 From: Brandon Kasproicz Ext.: 1679  
 Vendor Name: DIALIGHT Vendor ID: 350  
 Packet ID: Effective Date: 06/15/2012

- Rush - Product in NON-CONFORMING  
 Documentation/Additional Information Attached

### Type of Change

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Price Change  | <input checked="" type="checkbox"/> Change Part Status       | <input type="checkbox"/> Change Class Code  |
| <input type="checkbox"/> Min Line (MOQ), Order Multiple, Pack Quantity, Sales Pack Change, or Change Pack Type | <input type="checkbox"/> Change Vendor Ordering Requirements | <input type="checkbox"/> Add Names          |
| <input type="checkbox"/> Part Number Change  | <input type="checkbox"/> Vendor Changes                      | <input type="checkbox"/> Add Notes          |
| <input type="checkbox"/> Part Description Change   | <input type="checkbox"/> Flag: Add or Remove                 | <input type="checkbox"/> Purchasing Concept |
|  | <input type="checkbox"/> MSL                                 | <input type="checkbox"/> Other              |

### Sign Offs

R/M Rep: TERESA.KAPPEDAL@digikey.com Date: 06/18/2012  
 R/M Copy Team: 06/18/2012



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## Change Part Status

**Digi-Key Part Number:****Substitute Part Number:**

591-3501-831F, 591-3501-832F, 591-3501-833F

**Type of Substitute:**

Alternative

**Obsolete:**

591-3501-002F, 591-3501-007F, 591-3501-013F

**Last Time Buy:****DK Discontinue:****Convert to Internet Non-Stock:****Convert to Non-Cat:****Convert to Non-Release:****Add Subs and Sub Type:****Supplier Service Rep Canceling Open Purchase Orders:** No**Instructions to Purchasing Ops Support:** No**Parts Being Returned to Mfg:** No**Comments/Notes:** Log# 6-108-350**Supplier Service Rep:**KELLY.POOLMAN@DIGIKEY.COM **Date:**06/15/2012**Product Manager:**BRANDON.KASPROWICZ@digikey.com **Date:**06/15/2012

## Teresa Kappedal

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**From:** Hospes, Jane <JHOSPES@dialight.com>  
**Sent:** Friday, June 15, 2012 9:07 AM  
**To:** Brandon Kasprovicz  
**Cc:** Smith, Kathy  
**Subject:** PN 591-3501-002F / OBSOLETE FW: PCN OES12052801\_591  
**Attachments:** OES12052801\_591.pdf

Hi Brandon,

Please note, the below orders must be cancelled. The chip has gone end of life, however, we can offer a new chip to which the specifications are noted on the PCN. The part number with the new chip has changed. Please see attached PCN, and advise on what you would like to do. The below orders need to be cancelled, please advise.

<<OES12052801\_591.pdf>>

Bill to name	Order	P.O.	Item	Quantity	Unit price			
DIGI-KEY CORPORATION	CO	411780	1227386 5913501002F	160	\$	1.67		
DIGI-KEY CORPORATION	CO	408502	1217308 5913501002F	60	\$	1.67		

Thank You

Jane Hospes / CE

Inside Sales

Dialight Corp.

[jhospes@dialight.com](mailto:jhospes@dialight.com)

Tel#732-751-5832

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[www.dialight.com](http://www.dialight.com)



# Customer Product/Process Change Notification

PCN # OES12052801\_591

Issued Date: 5/23/2012

Issued By: Nick Oesterheld

Author: Nick Oesterheld

Change affects whole product family?  No

Part #'s affected (See attached if entire product family is affected)

591-3501-002F,-007F,-013F

### Description of Change:

Discontinued RO,G,B Surface Mount LED and replaced with R,G,B LED. New P/Ns 591-3501-831F 20 piece strip format, -832F 7" reel format, -833F 13" reel format.

### Reason for Change:

RO,G,B lower intensity was discontinued and replaced by R,G,B Die.

### Properties of Old vs. Changed Product:

See Attached Comparison Sheet

### Disposition of Old Product:

Deplete existing stock

Expected Implementation Date:

Customer Feedback Expected by:

### Additional Comments: (Include Potential Risks if Appropriate)

### Supporting Qualification Data:

Available upon Request

### Approved By:

(Minimum of three approvals are required.)

Vice President of Operations: \_\_\_\_\_

Vice President of Sales OED/Signals: \_\_\_\_\_

Director of Customer Service: Kathy Smith

Business Development Manager: Nick Oesterheld

Director of Quality: Rich Liskoff

**LED COMPARISON TABLE:**

**RO,G,B PLCC-4**

**5913501002F,-007F,-013F Discontinued**  
**OPERATING CHARACTERISTICS @ 25° AMBIENT**

	If	MIN	TYP	MAX
LUMINOUS INTENSITY (mcd) RED	20	30	60	90
LUMINOUS INTENSITY (mcd) GREEN	20	100	160	220
LUMINOUS INTENSITY (mcd) BLUE	20	18	37	60
FORWARD VOLTAGE (V) RED	20	1.83	2	2.33
FORWARD VOLTAGE (V) GREEN	20	3	3.5	4.1
FORWARD VOLTAGE (V) BLUE	20	3	3.6	4.1
PEAK WAVELENGTH (nm) RED			622	
PEAK WAVELENGTH (nm) GREEN			523	
PEAK WAVELENGTH (nm) BLUE			465	
DOMINANT WAVELENGTH (nm) RED		615	617	625
DOMINANT WAVELENGTH (nm) GREEN		520	528	538
DOMINANT WAVELENGTH (nm) BLUE		463	470	475
VIEWING ANGLE 2 $\theta$ 1/2 (deg)			40	
REVERSE VOLTAGE (Red)			12	
REVERSE VOLTAGE (Green)			5	
REVERSE VOLTAGE (Blue)			5	
<b>ABSOLUTE MAXIMUM RATINGS @ TA=25° C</b>				
POWER DISSIPATION RED (mW)			80	
POWER DISSIPATION GREEN(mW)			85	
POWER DISSIPATION BLUE(mW)			85	
PEAK Pulsed FORWARD CURRENT (mA)				100
CONTINUOUS FORWARD CURRENT Red(mA)			30	
CONTINUOUS FORWARD CURRENT Green(mA)			20	
CONTINUOUS FORWARD CURRENT Blue(mA)			20	
DERATING LINERALLY FROM (mA/C°)				
REVERSE VOLTAGE (IR=10 $\mu$ A)			RED 12v, GREEN, BLUE 5v	
OPERATING TEMP. RANGE (C°)			-40 to +100	
STORAGE TEMP. RANGE (C°)			-40 to +100	
LEAD Reflow SOLDERING TEMP. (C°)			260C FOR 10-20 SECONDS	
<b>PHYSICAL DIMENSIONS</b>				
LED EMITTING COLOR			RED, GREEN, BLUE	
LED EPOXY COLOR			CLEAR	
LED LEADS			Pb FREE RoHS	
LED DIE TECHNOLOGY			AllnGap Red, InGaN Green and Blue	
Moisture Sensitivity Level			2	

**5913501831F,-832F,-833F Replacement**  
**OPERATING CHARACTERISTICS @ 25° AMBIENT**

	If	MIN	TYP	MAX
LUMINOUS INTENSITY (mcd) RED	20		60	
LUMINOUS INTENSITY (mcd) GREEN	20		150	
LUMINOUS INTENSITY (mcd) BLUE	20		30	
FORWARD VOLTAGE (V) RED	20		1.9	2.4
FORWARD VOLTAGE (V) GREEN	20		3.4	4.05
FORWARD VOLTAGE (V) BLUE	20		3.4	4.05
PEAK WAVELENGTH (nm) RED			635	
PEAK WAVELENGTH (nm) GREEN			523	
PEAK WAVELENGTH (nm) BLUE			468	
DOMINANT WAVELENGTH (nm) RED			626	
DOMINANT WAVELENGTH (nm) GREEN			525	
DOMINANT WAVELENGTH (nm) BLUE			470	
VIEWING ANGLE 2 $\theta$ 1/2 (deg)			40	
REVERSE VOLTAGE (Red)			5	
REVERSE VOLTAGE (Green)			5	
REVERSE VOLTAGE (Blue)			5	
<b>ABSOLUTE MAXIMUM RATINGS @ TA=25° C</b>				
POWER DISSIPATION RED (mW)			72	
POWER DISSIPATION GREEN(mW)			120	
POWER DISSIPATION BLUE(mW)			120	
PEAK Pulsed FORWARD CURRENT (mA)				100
CONTINUOUS FORWARD CURRENT Red(mA)			30	
CONTINUOUS FORWARD CURRENT Green(mA)			20	
CONTINUOUS FORWARD CURRENT Blue(mA)			20	
DERATING LINERALLY FROM (mA/C°)				
REVERSE VOLTAGE (IR=10 $\mu$ A)			5	
OPERATING TEMP. RANGE (C°)			-40 to +100	
STORAGE TEMP. RANGE (C°)			-40 to +100	
LEAD Reflow SOLDERING TEMP. (C°)			260C FOR 10 SECONDS	
<b>PHYSICAL DIMENSIONS</b>				
LED EMITTING COLOR			RED, GREEN, BLUE	
LED EPOXY COLOR			CLEAR	
LED LEADS			Pb FREE RoHS	
LED DIE TECHNOLOGY			AllnGap Red and InGaN Green	
Moisture Sensitivity Level			2a	