



## Customer Product/Process Change Notification

PCN # **137167 REV.01**

Issued Date: January 14, 2026

Issued By: Cheryll Santiago

Change affects whole product family?

YES

### Part Numbers Affected:

See Tab for Affected Part Numbers List

### Description of Change:

Changing to a new PLCC-4 RGB SMD LED die/chip and adding alternate LED option for better stability in the manufacturing of Dialight 591, 592, 593 PRISM series and improving delivery times.  
New Color Codes: "42" and "37"

### Reason for Change:

Discontinuing use of "35" color code for RGB LED die/chip due to supply chain challenges such as excessively long lead time for the material.

### Properties of Old vs. Changed Product:

See Performance Comparison Tab

### Disposition of Old Product:

Stock of old material (color code "35") will be used for backlog orders until stock is depleted.

Expected Implementation Date: immediate

Customer Feedback Expected by: N/A

### Supporting Qualification Data:

Updated data sheets for 591, 592, and 593 Prism series available.

**Affected Part Numbers**

PCN # 137167 REV.01

**Obsoleted Part Numbers affected by the change.**

Part Number without dash	Part Number with dash	Description
5913501832F	591-3501-832F	3MM ROUND PRISM R,G,B 7" REEL
5913501833F	591-3501-833F	3MM ROUND PRISM R,G,B 13" REEL
5913501851F	591-3501-851F	3MM SQUARE PRISM R,G,B 7" REEL
5913501852F	591-3501-852F	3MM SQUARE PRISM R,G,B 13" REEL
5922135313NF	592-2135-313NF	BI-LEVEL PRISM RED / RGB 13" REEL
5923520313NF	592-3520-313NF	BI-LEVEL PRISM RGB / RED 13" REEL
5923528313F	592-3528-313F	BI-LEVEL PRISM RGB / WHITE 13" REEL
5923530313F	592-3530-313F	BI-LEVEL PRISM RGB / RED/GREEN 13" REEL
5923531313F	592-3531-313F	BI-LEVEL PRISM RGB / YELLOW/GREEN 13" REEL
5923531832F	592-3531-832F	BI-LEVEL PRISM RGB / YELLOW/GREEN 13" REEL
5923535313F	592-3535-313F	BI-LEVEL PRISM RGB / RGB 13" REEL
593353535313F	593-353535-313F	TRI-LEVEL PRISM RGB ALL 13" REEL
593353535313NF	593-353535-313NF	TRI-LEVEL PRISM RGB ALL 13" REEL
5977711307F	597-7711-307F	SMD LED PLCC-4 RGB 7" REEL

**Replacement Part Numbers**

Alternate Option 1	Alternate Option 2
591-4203-007NF	591-3703-007F
591-4203-013NF	591-3703-013F
591-4203-107NF	591-3703-107F
591-4203-113NF	591-3703-113F
592-2142-313NF	592-2137-313NF
592-4220-313NF	592-3720-313NF
592-4228-413F	592-3728-413F
592-4230-313NF	592-3730-313NF
592-4231-313NF	592-3731-313NF
592-4231-313NF	592-3731-313NF
592-4242-413F	592-3737-313NF
593-424242-413F	593-373737-413F
593-424242-413F	593-373737-413F
599-0811-337F	597-7714-007F

**PCN Product Comparison Form**

PCN # 137167 REV.01

**Specifications Comparison of Discrete PLCC-4 RGB SMD LED (Prism Housing and Lens Not Included)**

**OBSOLETE P/N**

<b>597-7711-307F</b>	<b>RED</b>	<b>GREEN</b>	<b>BLUE</b>
INTENSITY mcd at 20mA	45 min / 80 typ	112.5 min / 160 typ	28.5 min / 40 typ
Dominant Wavelength	626nm typ	525nm typ	470nm typ
Forward Voltage	1.9-2.4V	3.4-4.05V	3.4-4.05V
Viewing Angle	120		
Operating Temp	-55C to +100C		
Storage Temp	-55C to +100C		
Reflow Profile	217C high temp 150 sec max, 260C peak 10 sec max		

**Alternate #1**

<b>599-0811-337F</b>	<b>RED</b>	<b>GREEN</b>	<b>BLUE</b>
INTENSITY mcd at 20mA	80 min / 125 typ	500 min / 800 typ	125 / 320 typ
Dominant Wavelength	630 typ	525 typ	470 typ
Forward Voltage	1.5-2.4V	2.8-3.6V	2.8-3.6V
Viewing Angle	120		
Operating Temp	-45C to +85C		
Storage Temp	-40C to +100C		
Reflow Profile	217C high temp 150 sec max, 260C peak 10 sec max		

**Alternate #2**

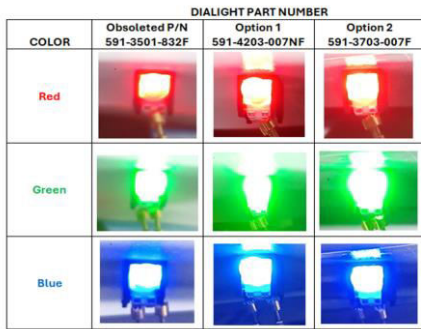
<b>597-7714-007F</b>	<b>RED</b>	<b>GREEN</b>	<b>BLUE</b>
INTENSITY mcd at 20mA	200 min / 430 max	700 min / 2300 max	180 min / 530 max
Dominant Wavelength (nm)	615 min / 630 max	517.5 min / 530 max	465 min / 475 max
Forward Voltage	1.8-2.4V	2.8-3.6V	2.8-3.6V
Viewing Angle	120		
Operating Temp	-40C to +85C		
Storage Temp	-40C to +100C		
Reflow Profile	217C high temp 60-90 sec max, 260C peak 10 sec max		

PCN Product Comparison Form

PCN # 137167 REV.01

OBSOLETE Part Numbers LED Intensity			Replacement Part Numbers LED Intensity Comparison					
OBSOLETE P/N	LED Color and Intensity Typical (mcd)	Test Current	Alternate P/N Option 1	LED Color and Intensity Typical (mcd)	Test Current	Alternate P/N Option 2	LED Color and Intensity Typical (mcd)	Test Current
591-3501-832F	Red 48 / Green 125 / Blue 20	20mA	591-4203-007NF	Red 85 / Green 750 / Blue 100	20mA	591-3703-007F	Red 200 / Green 850 / Blue 125	20mA
591-3501-833F	Red 48 / Green 125 / Blue 20	20mA	591-4203-013NF	Red 85 / Green 750 / Blue 100	20mA	591-3703-013F	Red 200 / Green 850 / Blue 125	20mA
591-3501-851F	Red 60 / Green 150 / Blue 30	20mA	591-4203-107NF	Red 120 / Green 1000 / Blue 150	20mA	591-3703-107F	Red 350 / Green 1200 / Blue 180	20mA
591-3501-852F	Red 60 / Green 150 / Blue 30	20mA	591-4203-113NF	Red 120 / Green 1000 / Blue 150	20mA	591-3703-113F	Red 350 / Green 1200 / Blue 180	20mA
592-2135-313NF	Position 1: Red 45	20mA	592-2142-313NF	Position 1: Red 45 (No Change)	20mA	592-2137-313NF	Position 1: Red 45 (No Change)	20mA
	Position 2: Red 45 / Green 140 / Blue 30	20mA		Position 2: Red 40 / Green 260 / Blue 40	20mA		Position 2: Red 95 / Green 350 / Blue 60	20mA
592-3520-313NF	Position 1: Red 45 / Green 140 / Blue 30	20mA	592-4220-313NF	Position 1: Red 40 / Green 260 / Blue 40	20mA	592-3720-313NF	Position 1: Red 95 / Green 350 / Blue 60	20mA
	Position 2: Red - 40	20mA		Position 2: Red - 40 (No Change)	20mA		Position 2: Red - 40 (No Change)	20mA
592-3528-313F	Position 1: Red 45 / Green 140 / Blue 30	20mA	592-4228-413F	Position 1: Red 40 / Green 260 / Blue 40	20mA	592-3728-413F	Position 1: Red 95 / Green 350 / Blue 60	20mA
	Position 2: White - 100	20mA		Position 2: White - 100 (No Change)	20mA		Position 2: White - 100 (No Change)	20mA
592-3530-313F	Position 1: Red 45 / Green 140 / Blue 30	20mA	592-4230-313NF	Position 1: Red 40 / Green 260 / Blue 40	20mA	592-3730-313NF	Position 1: Red 95 / Green 350 / Blue 60	20mA
	Position 2: Red 20 / Green 20	10mA		Position 2: Red 20 / Green 20 (No Change)	10mA		Position 2: Red 20 / Green 20 (No Change)	10mA
592-3531-313F	Position 1: Red 45 / Green 140 / Blue 30	20mA	592-4231-313NF	Position 1: Red 40 / Green 260 / Blue 40	20mA	592-3731-313NF	Position 1: Red 95 / Green 350 / Blue 60	20mA
	Position 2: Yellow 25 / Green 20	10mA		Position 2: Yellow 25 / Green 20 (No Change)	10mA		Position 2: Yellow 25 / Green 20 (No Change)	10mA
592-3531-832F	Position 1: Red 45 / Green 140 / Blue 30	20mA	592-4231-313NF	Position 1: Red 40 / Green 260 / Blue 40	20mA	592-3731-313NF	Position 1: Red 95 / Green 350 / Blue 60	20mA
	Position 2: Yellow 25 / Green 20	10mA		Position 2: Yellow 25 / Green 20 (No Change)	10mA		Position 2: Yellow 25 / Green 20 (No Change)	10mA
592-3535-313F	Position 1, 2: Red 45 / Green 140 / Blue 30	20mA	592-4242-413F	Position 1, 2: Red 40 / Green 260 / Blue 40	20mA	592-3737-313NF	Position 1, 2: Red 95 / Green 350 / Blue 60	20mA
593-353535-313F	Position 1, 2, 3: Red 45 / Green 140 / Blue 30	20mA	593-424242-413F	Position 1, 2, 3: Red 50 / Green 300 / Blue 50	20mA	593-373737-413F	Position 1, 2, 3: Red 150 / Green 400 / Blue 60	20mA
593-353535-313NF	Position 1, 2, 3: Red 45 / Green 140 / Blue 30	20mA	593-424242-413F	Position 1, 2, 3: Red 50 / Green 300 / Blue 50	20mA	593-373737-413F	Position 1, 2, 3: Red 150 / Green 400 / Blue 60	20mA

PHOTOS of 591 Prism Single Level RGB LED Comparison  
LED LIGHT UP TEST at 10mA current



**Key Dates**

<b>Effective Date:</b>	Immediate
<b>*Last Time Buy Date:</b>	14.02.2026
<b>Sample Availability Date:</b>	2 weeks after request
<b>Literature Updated:</b>	Completed

\*Last time buy on the part numbers being obsoleted will be available 30 days from effective date of PCN = 1-14-2026. LTB request date will be able to be scheduled out to the end of 2026.

Please note, lead time on the obsoleted items will be 40 weeks. For this reason, Dialight strongly suggests you spec in one of the alternate options.

Lead time on replacement item #1 = 12 weeks.

Lead time on replacement item #2 = 16 weeks.

**PRICES FOR 591 / 592 / 592 PRISM USING ALTERNATE RGB LED**

<b>Item to be Obsoleted</b>
5913501832F
5913501833F
5913501851F
5913501852F
5922135313NF
5923520313NF
5923528313F
5923530313F
5923531313F
5923535313F
593353535313F
593353535313NF

<b>REPLACEMENT Option 1</b>	<b>REPLACEMENT Option 2</b>
591-4203-007NF	591-3703-007F
591-4203-013NF	591-3703-013F
591-4203-107NF	591-3703-107F
591-4203-113NF	591-3703-113F
592-2142-313NF	592-2137-313NF
592-4220-313NF	592-3720-313NF
592-4228-413F	592-3728-413F
592-4230-313NF	592-3730-313NF
592-4231-313NF	592-3731-313NF
592-4242-413F	592-3737-313NF
593-424242-413F	593-373737-413F
593-424242-413F	593-373737-413F