



Customer Product/Process Change Notification

PCN # 137167

Issued Date:

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:

Customer Feedback Expected by:

N/A

Supporting Qualification Data:

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

Affected Part Numbers

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Obsolated Part Numbers affected by the change.

Part Number without dash	Part Number with dash	Description
5913501832F	591-3501-832F	3MM PRISM R,G,B 7 REEL"
5913501833F	591-3501-833F	3MM PRISM R,G,B 13 REEL"
5913501851F	591-3501-851F	3MM SQ PRISM R,G,B 7 REEL"
5913501852F	591-3501-852F	3MM SQ PRISM R,G,B 13 REEL"
5922135313NF	592-2135-313NF	BI-LVL PRISM R- RGB 13R SIL"
5923520313NF	592-3520-313NF	BI-LVL PRISM RGB-R 13R SIL"
5923528313F	592-3528-313F	BI-LVL PRISM RGB-W 13R SIL"
5923530313F	592-3530-313F	BI-LVL PRISM RGB-YG 13R SIL"
5923531313F	592-3531-313F	BI-LVL PRISM RGB-YG 13R SIL"
5923535313F	592-3535-313F	BLVL PRSM R/G/B-R/G/B 13 SLNS"
593353535313F	593-353535-313F	TRI-LEV PRIS RGB ALL 13R SL
593353535313NF	593-353535-313NF	TRI-LEV PRIS RGBALL 13R SL
5977711307F	597-7711-307F	SMD LED PLCC 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
592-4242-413F	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

Specifications Comparison of Discrete PLCC-4 RGB SMD LED

OBSOLETE P/N

597-7711-307F	RED	GREEN	BLUE
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

599-0B11-337F	RED	GREEN	BLUE
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

597-7714-007F	RED	GREEN	BLUE
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		

Photo Comparison of RGB LED in 591 P

COLOR	DIALIGHT	
	Obsoluted P/N 591-3501-832F	O 591-4
Red		
Green		
Blue		

Key Dates

Effective Date:	Immediate
Last Time Buy Date:	Not Applicable
Sample Availability Date:	2 weeks after request
Literature Updated:	Complete

Comments