



## PRODUCT CHANGE NOTIFICATION

PCN No: 1013

Issue Date: 11/07/2022

Parts Affected	SM0805AC	Old Rev.	C	New Rev.	D
	SMTL6-BWC		A		B
	SMTL6-RGB		A		B

**Change Will Affect:** LED optical, electrical and mechanical

**Description of Change:** Changes are reflected in red as shown in the table below.

**Effective Date of Change:** November 7, 2022

**Reason for Change:** New material is being used due to material shortage.

Effect of change on product fit, form and function:

**SM0805AC:** Increase in operating temperature range from -30 to 80 to -40 to 85 °C, decrease in dominant wavelength from 607 to 606 nm, increase in luminous intensity range from 1-6 to 3.6-11.5 mcd.

**SMTL6-BWC:** Decrease in operating temperature range from -40 to 100 to -30 to 85 °C, decrease in soldering temperature from 260 °C < 5 seconds to 250 °C < 3 seconds, decrease in forward voltage from 3.0-3.8 to 2.8-3.4 V, decrease in dominant wavelength from 465-477 to 464-473 nm, decrease in luminous intensity from 1000-2000 to 1000-1400 mcd.

**SMTL6-RGB:** Decrease in operating temperature range from -40 to 100 to -30 to 85 °C, decrease in soldering time from < 5 to < 3 seconds, decrease in green and blue forward voltage from 3.0-3.6 to 2.8-3.4 V, decrease in red dominant wavelength from 620-632 to 620-630 nm, decrease in green dominant wavelength from 520-532 to 520-530 nm, decrease in blue dominant wavelength from 465-477 to 465-475 nm, increase in red luminous intensity from 500-700 to 650-1200 mcd, increase in green luminous intensity from 700-900 to 1400-2000 mcd, increase in blue luminous intensity from 200-500 to 200-600 mcd.



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	SMTL6-RGB		A		B

P/N		SM0805AC	SMTL6-BWC	SMTL6-RGB (Red)	SMTL6-RGB (Green)	SMTL6-RGB (Blue)
Vf	Min	/	3	1.8	3	3
	Typ	2	3.4	2.1	3.3	3.3
	Max	2.6	3.8	2.4	3.6	3.6
Vf (New)	Min	1.8	2.8	1.8	2.8	2.8
	Typ	2	/	/	/	/
	Max	2.6	3.4	2.4	3.4	3.4
Intensity (mcd)	Min	1	1000	500	700	200
	Typ	6	/	/	/	/
	Max	/	2000	700	900	500
Intensity (mcd) (New)	Min	3.6	1000	650	1400	200
	Typ	7.2	/	/	/	/
	Max	11.5	1400	1200	2000	600
WL (nm)	Min	/	465	620	520	465
	Typ	607	/	/	/	/
	Max	/	477	632	532	477
WL (nm) (New)	Min	/	464	620	520	465
	Typ	606	/	/	/	/
	Max	/	473	630	530	475

These changes have been reviewed and approved by Bivar management per Bivar Procedure: Engineering Change Order and Part Change Notification, SOP-040, SOP-ENG-045

Please contact Bivar Inc. at [www.bivar.com/contact](http://www.bivar.com/contact) or speak to a Bivar representative for any questions or support requirements within 30 days of issue date.