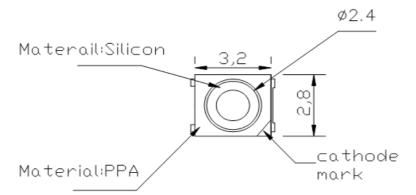


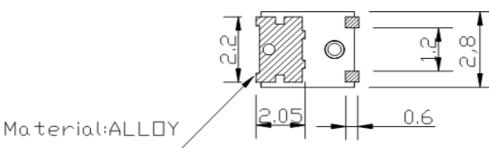


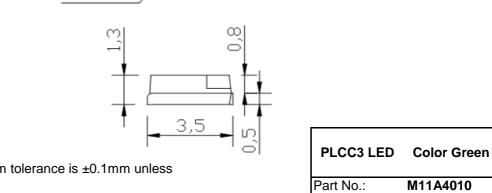
Applications

- Interior automotive lighting(dashboard backlight etc...)
- Optical indicators
- Communication Products
- Backlighting
- Toys
- Tradffic Signal

Package Dimensions







Notes:

All dimensions in mm tolerance is ±0.1mm unless otherwise noted.

							Customer:	
DRW:	Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009
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Absolute Maximum Ratings (Ta = 25°C)

Parameter	Symbol	Value	Unit
Forward Current	lf	150	mA
Power Dissipation	PD	0,5	W
Junction Temperature	TJ	125	°C
Operating Temperature	Topr	30° ~ +85°C	°C
Staorage Temperature	Tstg	40° ~ +120°C	°C

*Pulse width ≤0.1msec duty ≤1/10

Typical Electrical & Optical Characteristics (IF=20mA and Ta = 25°C)

M11A4010	Code		Color Rank	HG	1
Parameter	Symbol		Value	;	Unit
Falameter	Symbol	Min.	Тур.	Max.	Offic
Muminous Flux		21	27		Lm
Dominant Wavelength		515		525	nm
Forward Voltage	Vf		3,2	4,0	V
View Angle	20 1/2		120		deg.

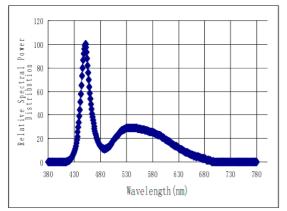
	Ranks Combir	nation (IF = 20mA)	
Rank			
Luminious Intensity			

Notes:								
1. Toler	ance of m	easuren	nent of lumi	nous intensi	ity	: ±15%	PLCC3 LE	ED Color Green
2. Toler	. Tolerance of measurement of chromatic coordinates : ±0.02							
3. Toler	ance of m	easuren	nent of forwa	ard voltage		: ±0.1V	Part No.:	M11A4010
							Customer:	
DRW:	Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009
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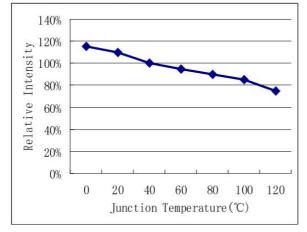




White color spectrum, TA=25°C Pure White



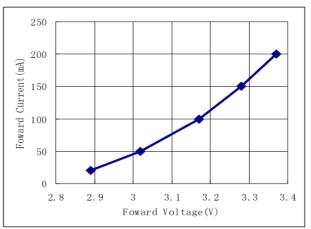
Relative Light Output vs. Junction Temperature (All series) at IF=150mA, TA=25°C



Helative Spectral Dower Helative Spectral Dow

Warm white

Forward Voltage vs. Forward Current, TA=25℃ (Pure white,Warm white,blue and green)



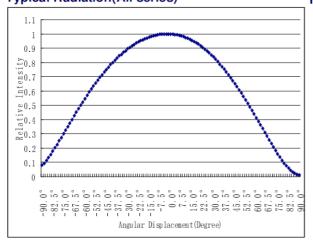
							PLCC3 L	ED Color Green
							Part No.:	M11A4010
							Customer:	
DRW:	Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009
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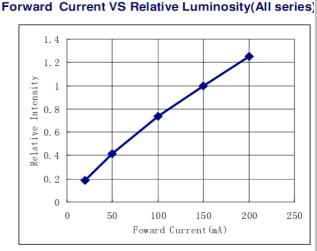




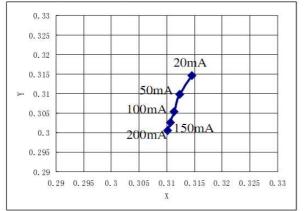
Typical Electrical/ Optical Characteristics Curves (Ta=25°C Unless Otherwise Noted)

Typical Radiation(All series)

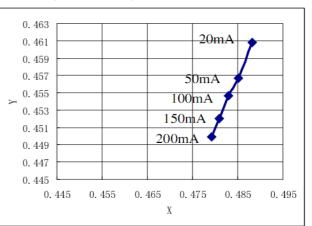




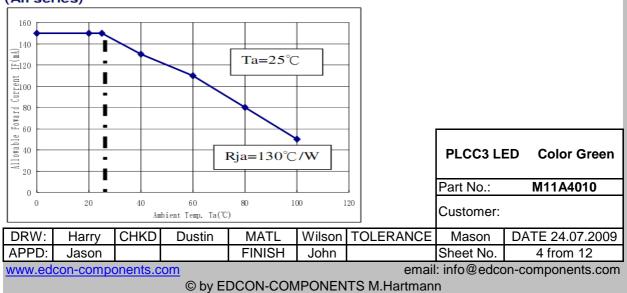
Forward Current VS Chromaticity Coordinate: TA=25 $^{\circ}$ C (Pure white)



Forward Current VS Chromaticity Coordinate: TA=25℃ (Warm white)



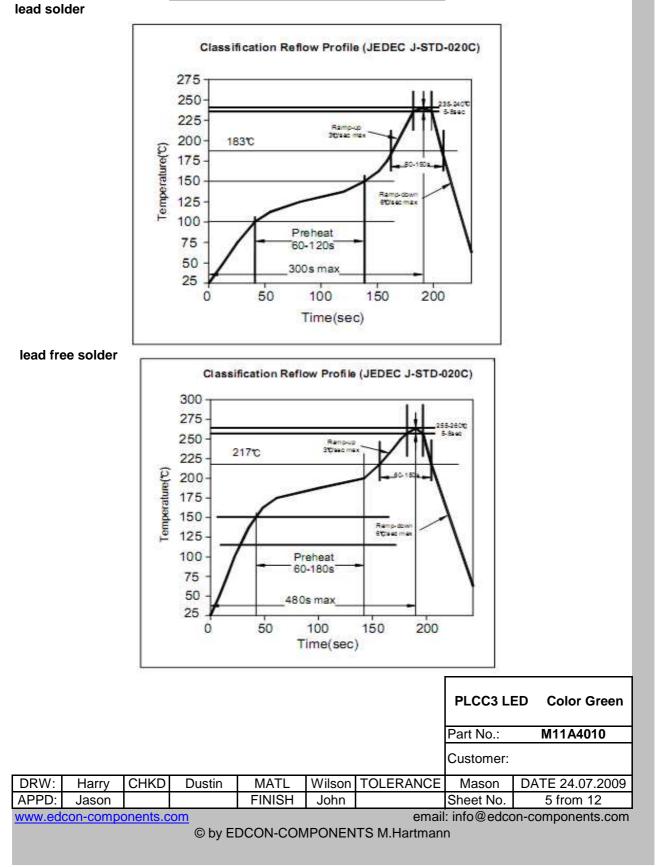
Ambient Temperature. VS Allowable Forward Current (All series)





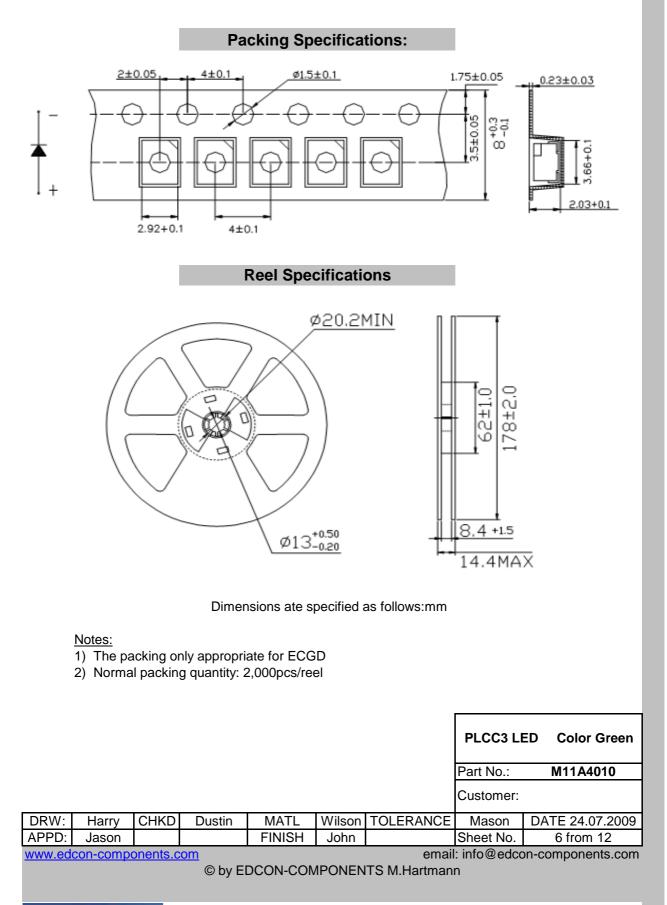


Solder Condition









R

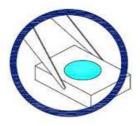




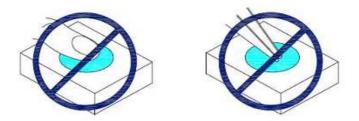
Handling Precautions

Compare to epoxy encapsulant that is hard and brittle, silicone is softer and flexible. Although its characteristic significantly reduces thermal stress, it is more susceptible to damage by external mechanical force. As a result, special handling precautions need to be observed during assembly using silicone encapsulated LED products. Failure to comply might leads to damage and premature failure of the LED.

1. Handle the component along the side surfaces by using forceps or appropriate tools.



2. Do not directly touch or handle the silicone lens surface. It may damage the internal circuitry.



3. Do not stack together assembled PCBs containing exposed LEDs. Outside impact may scratch the silicone lens or damage the internal circuitry.



4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the should be as

) to prev as poss		s. The inner	⁻ diamete	er of the nozzle	PLCC3 LE	ED Color Green
						Part No.:	M11A4010
						Customer:	
arry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009
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DRW:

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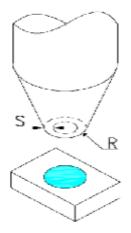






5. A pliable material is suggested for the nozzle tip to avoid scratching or damaging the LED surface during pickup.

6. The dimensions of the component must be accurately programmed in the pick-and-place machine to insure precise pickup and avoid damage during production.



							PLCC3 LE	ED Color Green
							Part No.:	M11A4010
							Customer:	
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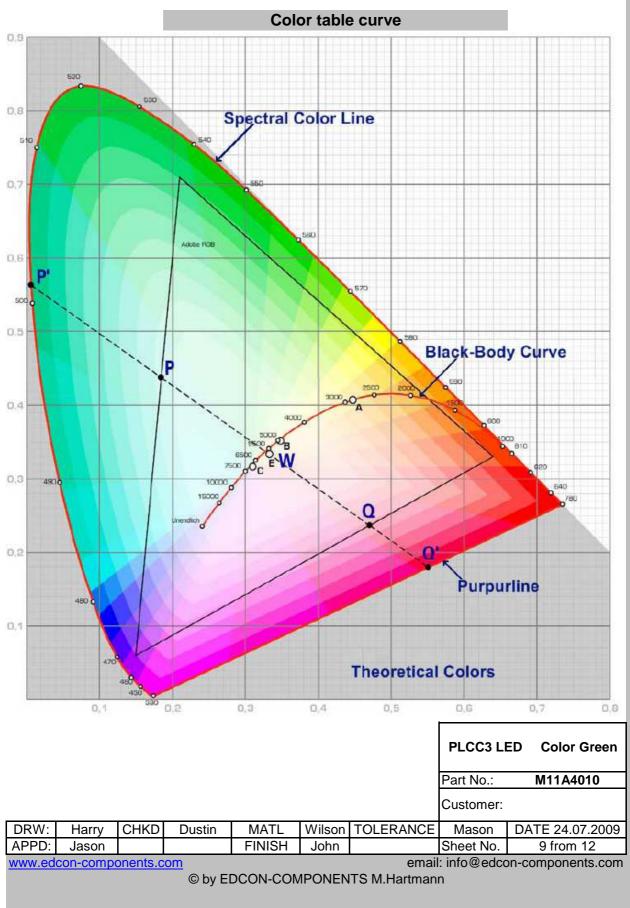
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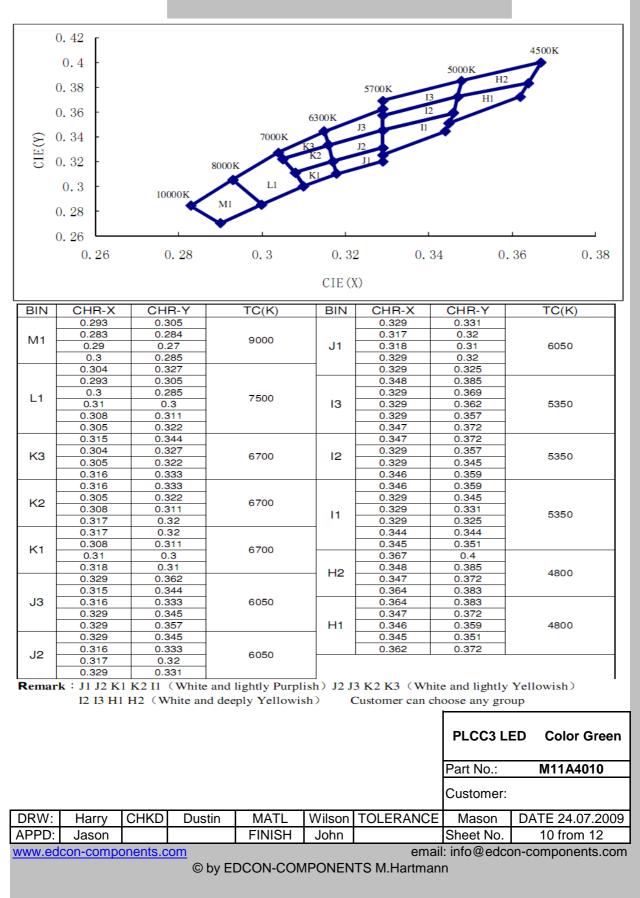




















	0.46						
					3050K		2650K
	0.44 -				3030K	/	
			3500K	-	7 /		
	0.42		000K	1 1		-	
E	0.12		4	1	/		
CLE (I)			1	1			
	0.4	3		- /			
		4	1		-		
		2	1		-		
	0.38		7	A			
		1	СВ	А			
	0.36	• p	i		Ē		
	0.38	0.4	0.42	0.44	0.46	6 0. 4	18 0.
				CIE(X)			
BIN	CHR-X	CHR-Y	TC (K)	BIN	CHR-X	CHR-Y	TC (K)
DIN	0. 435	0.429	IC (K)	DIN	0. 466	0.44	IC(K)
	0.435	0.425		3	0.45	0.436	
D4	0.411	0.42	3375	B4	0.441	0.419	2950
	0. 427	0.413		3.	0.457	0.423	
	0.427	0.413	<u>8</u>	ŝ	0.457	0. 423	÷
	0. 411	0.405	Print Caluary	and the second se	0.441	0.419	
D3	0. 405	0.39	3375	B3	0. 433	0.403	2950
	0. 42	0.398		3	0.449	0.408	
	0.42	0.398		2	0.449	0.408	
DO	0.405	0.39			0.433	0.403	
D2	0.399	0.375	3375	B2	0.426	0.388	2950
	0.412	0.381			0.44	0.392	
	0.412	0.381			0.44	0.392	
DI	0.399	0.375	0075		0.426	0.388	2050
D1	0,395	0.365	3375	B1	0.42	0.375	2950
	0,407	0.37			0,432	0.378	
	0.45	0.436			0.482	0.444	
C4	0.435	0.429	3250	A4	0.466	0.44	2750
CI	0.427	0.413	3230	111	0.457	0.423	2150
	0.441	0.419			0.472	0.426	
	0.441	0.419			0.472	0.426	
C3	0.427	0.413	3150	A3	0.457	0.423	2750
00	0.42	0.398	0100	110	0.449	0.408	2100
	0.433	0.403			0.464	0.412	
	0.433	0.403		3	0.464	0.412	
C2	0.42	0.398	3150	A2	0.449	0.408	2750
o creative)	0.412	0.381	45 (1858)	20000000	0.44	0.392	
	0.426	0.388			0.454	0.395	
	0.426	0.388			0.454	0.395	
C1	0.412	0.381	3150	A1	0.44	0.392	2750
	0.407	0.37		3	0. 432 0. 446	0.378 0.381	
	0.42	0.375					

							PLCC3 LI	ED Color Green
							Part No.:	M11A4010
							Customer:	
DRW:	Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009
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BIN	CHR	-X	CHR-Y	TC(K)	BIN	CHR-X	CHR-Y	TC (K)
	0.3	8	0.4			0. 387	0.374	
G3	0.36	65	0.389	4295	F1	0. 372	0.364	2085
69	0.30	62	0.373	4325	ГТ	0.369	0.35	3985
	0. 37	76	0.382			0. 382	0.358	
	0. 37	76	0.382			0. 417	0.42	
G2	0.36	52	0.373	4325	E3	0.398	0. 411	3660
02	0. 35	59	0.356	4525	LU	0.392	0.391	
	0. 37	72	0.364			0. 409	0.4	
	0.37	72	0.364			0. 409	0.4	
G1	0.35	59	0.356	4325	E2	0.392	0.391	3660
01	0.3	56	0.341	1020		0. 387	0.374	
	0.30	69	0.35			0. 402	0. 382	
	0. 39	98	0. 411			0. 402	0.382	
F3	0.3	8	0.4	3985	E1	0. 387	0.374	3660
10	0. 37	76	0.382	0.500	11	0. 382	0.358	
	0. 39		0.391			0.396	0.367	
	0. 39		0.391					
F2	0. 37	76	0.382	3985				
	0. 33		0.364					
	0.38	87	0.374					
0. « 0. «	42 - .4 -		4500K	41	50K	3820	×	3500K
0.4	.4 - 38 - 36 -	2		41 F	50K	3820. E	×	3500K
。. 。 (1) 円 3 。. 、	.4 - 38 - 36 - 34 -	1	G G	F	50K	E 0. 39	к 	3500K
0 0. EB 0 0 0	.4 - 38 - 36 - 34 -	Ľ	G G	F	. 38	E 0. 39		0.41 0.42
0 0. EB 0 0 0	.4 - 38 - 36 - 34 -	Ľ	G G	F	. 38	E 0. 39	0. 4 PLCC3 LI	0.41 0.42 ED Color Greer
0 0. E) 0 C. E) 0 0	.4 - 38 - 36 - 34 -	Ľ	G G	F	. 38	E 0. 39	0.4	0.41 0.42
。. 《 一 。. 。 。 。	.4 - 38 - 36 - 34 - 32 0.35	0.3	3 G 5 0.	F 37 0	. 38 CIE (X)	E 0. 39	0.4 PLCC3 LI Part No.: Customer:	0.41 0.42 ED Color Green M11A4010
0 0. (1) 0 0 0	.4 - 38 - 36 - 34 -	Ľ	G G	F	. 38 CIE (X)	E 0. 39	0. 4 PLCC3 LI Part No.:	0.41 0.42 ED Color Green