



PLCC3 LED

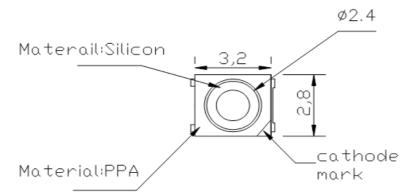
Color Warm

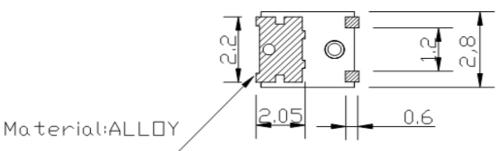
White

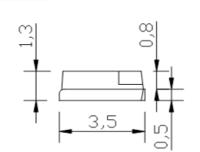
Applications

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

Package Dimensions







Notes:

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

otherw	vise noted.						Part No.:	M11A4006
							Customer:	
DRW	: Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009
APPD	: Jason			FINISH	John		Sheet No.	1 from 12
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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)

M11A4006	Code	HW3	Color Rank	l1, l2, l3, J1, . K2, k	
Parameter	Symbol		Value	9	Unit
Farameter	Symbol	Min.	Тур.	Max.	Unit
Muminous Flux		27	36		Lm
Correlated Color Temp.	ССТ		6500		K
CRI	Ra	70	75		
Forward Voltage	Vf		3,2	4,5	V
View Angle	20 1/2		120		deg.

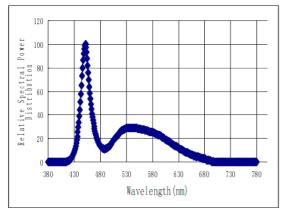
	Ranks Combi	nation (IF = 20mA)	
Rank			
Luminious Intensity			

Notes:							PLCC3 L	ED Color Warm
1. Toler	ance of m	easuren	nent of lumi	nous intensi	ity	: ±15%	FLOOJ LI	White
2. Toler	ance of m	easuren	nent of chro	matic coord	linates	: ±0.02		white
3. Toler	ance of m	easuren	nent of forw	ard voltage		: ±0.1V	Part No.:	M11A4006
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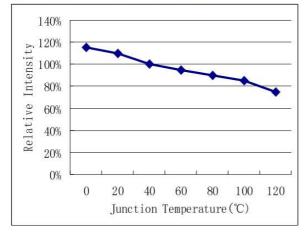




White color spectrum, TA=25°C Pure White



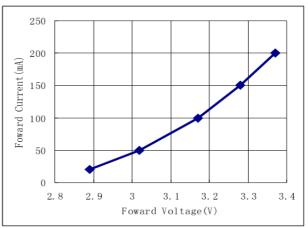
Relative Light Output vs. Junction Temperature (All series) at IF=150mA, TA=25°C



Helative Spectral power Helative Spectral pow

Warm white





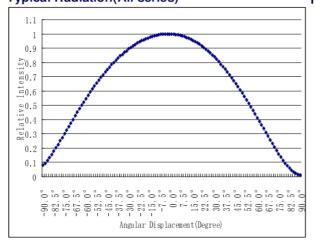
							PLCC3 L	ED Color Warm White
							Part No.:	M11A4006
							Customer:	
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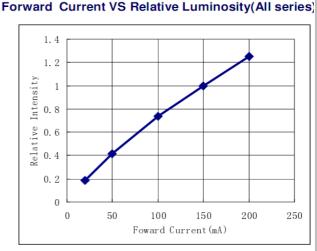




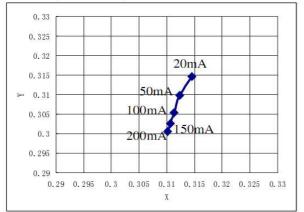
Typical Electrical/ Optical Characteristics Curves (Ta=25°C Unless Otherwise Noted)

Typical Radiation(All series)

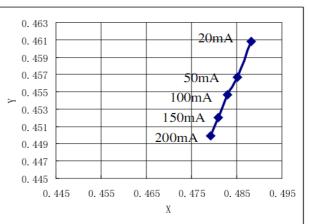




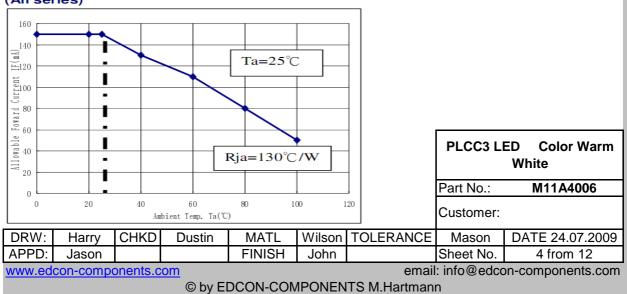
Forward Current VS Chromaticity Coordinate: TA=25℃ (Pure white)



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



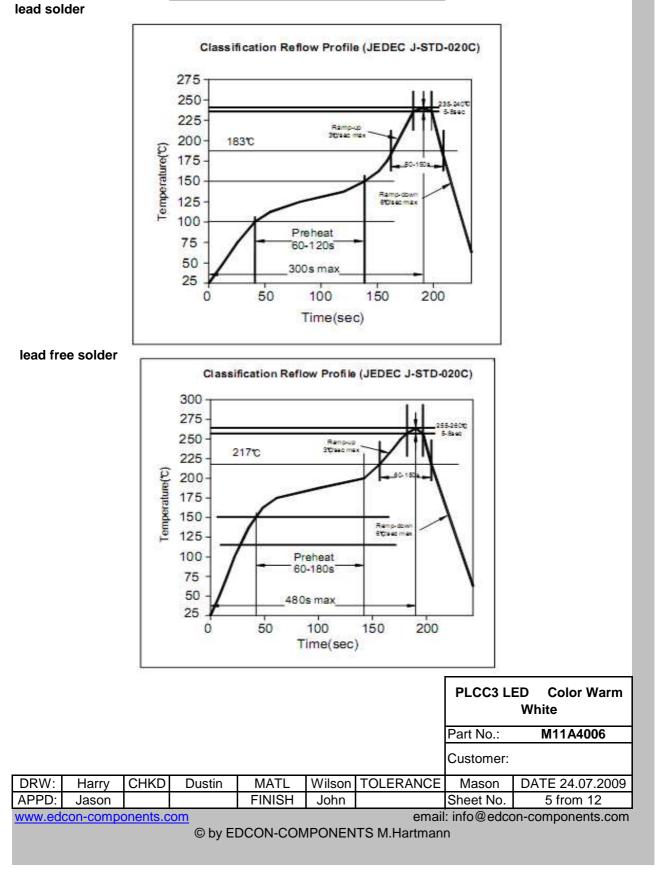
Ambient Temperature. VS Allowable Forward Current (All series)





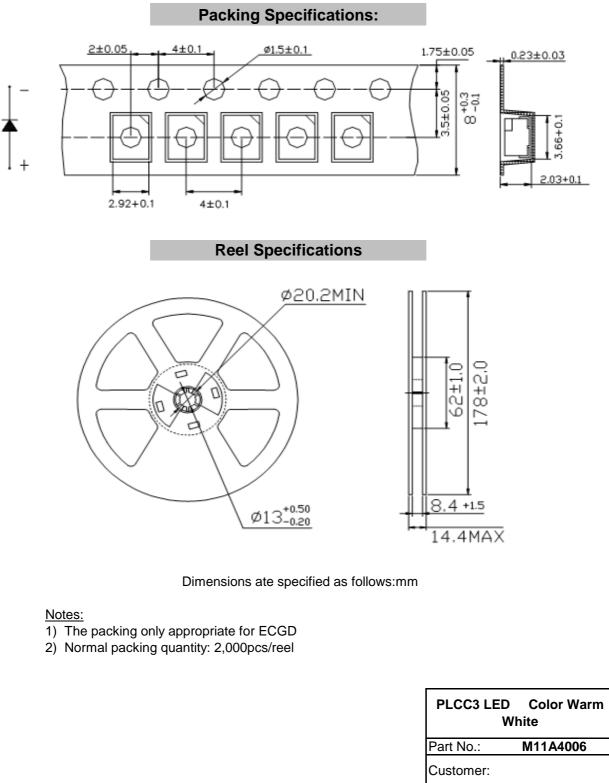


Solder Condition









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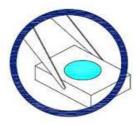




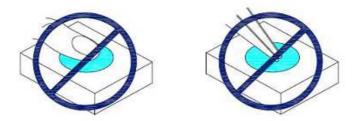
Handling Precautions

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 LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.

MATL

FINISH

Dustin

e nozzle	PLCC3 LI		Color Warm nite
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	Customer:		
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Wilson TOLE

John



Harry

Jason

CHKD

DRW:

APPD:

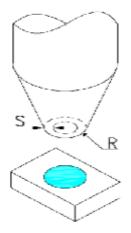






5. A pliable material is suggested for the nozzle tip to avoid scratching or damaging the LED surface during pickup.

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.



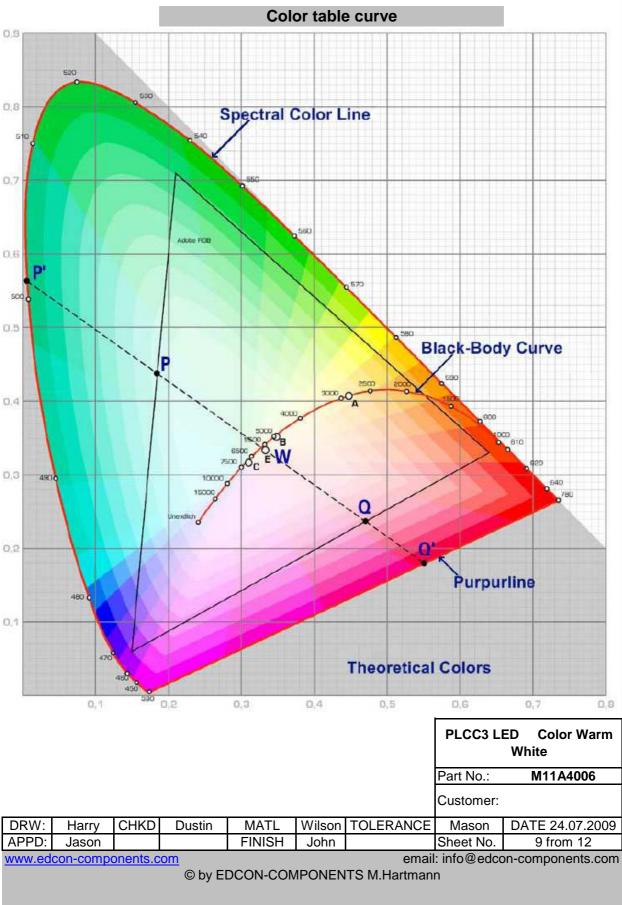
							PLCC3 LI	ED Color Warm White
							Part No.:	M11A4006
							Customer:	
DRW:	Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009
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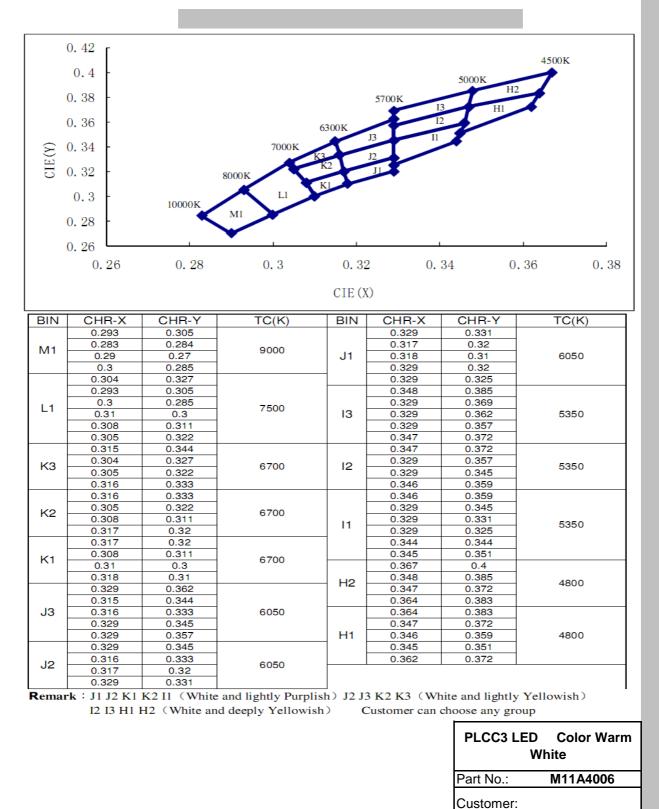












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	^{0.46} [
						1	2650K
	0.44				3050K	- /	est
			3500K	-			
	0.42		-	1 1			
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	0.38	2	-	1	-		
	0.00	-		А			
		1	СВ				
	0.36	↓ p			i.		
	0.38	0.4	0.42	0.44	0.46	5 0.4	.8 0.
			······································	CIE(X)		r	
BIN	CHR-X	CHR-Y	TC (K)	BIN	CHR-X	CHR-Y	TC (K)
	0.435	0.429			0.466	0.44	
D4	0.417	0.42	3375	B4	0.45	0.436	2950
	0.411	0.405	105105353426		0.441	0.419	
	0.427	0.413	-		0.457	0.423	
	0.427	0.413			0.457	0.423	2950
D3	0. 411	0.405	3375	B3	0.441	0.419	
	0.405	0.39			0.433 0.449	0.403 0.408	
	0.42	0.398			0.449	0.408	
	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
	0.427	0.413			0.457	0.423	
	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
	0. 42	0.398			0.449 0.464	0.408	21000
	0.433	0.403			0.464	0.412	
20	0. 433	0.398			0.449	0.412	
C2	0.412	0.381	3150	A2	0.44	0.392	2750
	0. 426	0.388			0.454	0.395	
	0. 426	0.388			0.454	0.395	s
61	0.412	0.381	2150		0.44	0.392	0750
C1	0.407	0.37	3150	A1	0.432	0.378	2750

							PLCC3 L	ED Color Warm White
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BIN	CHR	X	CHR-Y	TC(K)	BIN	CHR-X	CHR-Y	1	C (K)
	0.3	8	0.4			0. 387	0.374		
6.2	0.30	65	0.389	4005	P1	0. 372	0.364		2005
G3	0.36	52	0.373	4325	F1	0.369	0.35		3985
	0.33	76	0.382			0. 382	0.358		
	0. 37	76	0.382			0. 417	0.42		
G2	0.36	52	0.373	4995	E3	0.398	0. 411		2660
62	0.33	59	0.356	4325	Eð	0. 392	0.391		3660
	0.33	72	0.364			0. 409	0.4		
	0. 37	72	0.364			0.409	0.4		
G1	0.35	59	0.356	4205	E2	0. 392	0.391		2660
61	0. 35	56	0.341	4325	E2	0. 387	0.374		3660
	0.36	59	0.35			0. 402	0.382		
	0.39	98	0. 411			0. 402	0.382		
F3	0.3	8	0.4	2095	E1	0. 387	0.374		2660
гэ	0.37	76	0.382	3985	EI	0. 382	0.358		3660
	0. 39	92	0.391			0.396	0.367		
	0. 39	92	0.391						
F2	0. 37	76	0.382	3985					
1.7	0. 37	72	0.364	9 909					
	0.38	37	0.374						
o. 4 o. 4 o.			4500K	41	50K	3820	ĸ	35	00K
0.4	42 - .4 - 38 - 36 -	2		41 F	50K	3820 E	ĸ	35	00K
o. < o. 田田 o. :	42 - .4 - 38 - 36 - 34 -	1	G G	F	50K . 38 CIE (X	E 0. 39	к 0. 4	0.41	00K
0.4 0. 8 0.1 0.1	42 - .4 - 38 - 36 - 34 -	Ľ.	G G	F		E 0. 39		0.41	*
0.4 0. 19 0.1 0.1	42 - .4 - 38 - 36 - 34 -	Ľ.	G G	F		E 0. 39	0.4	0.41 ED Co White	0.42
0.4 0. 19 0.1 0.1	42 - .4 - 38 - 36 - 34 -	Ľ.	G G	F		E 0. 39	0. 4 PLCC3 L	0.41 ED Co White	0.42
0.4 0. 19 0.1 0.1	42 - .4 - 38 - 36 - 34 - 32 0.35	0.36	3 G 5 0.	F 37 0	. 38 CIE (X	E 0. 39	0. 4 PLCC3 L Part No.: Customer:	0.41 ED Co White M11	0. 42
0.4 0. 8 0.1 0.1	42 - .4 - 38 - 36 - 34 -	Ľ.	G G	F	. 38 CIE (X	E 0. 39	0. 4 PLCC3 L Part No.: Customer:	0.41 ED Co White M11 DATE 2	0.42