



PLCC3 LED

Color Warm

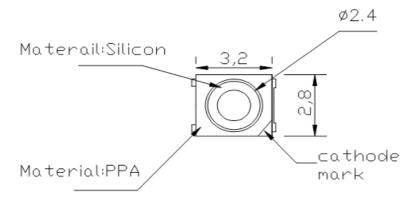
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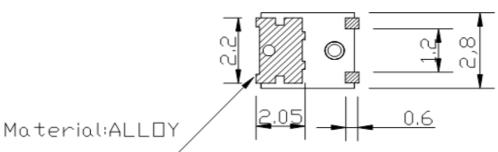
White

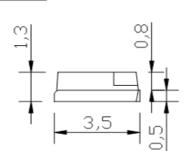
Applications

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

Package Dimensions







Notes:

All dimensions in mm tolerance is ±0.1mm unless

otherwis	e noted.						Part No.:	M11A4005
							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)

M11A4005	Code	AW3	Color Rank	I1, I2, I3, J1, J K2, F	
Parameter	Symbol		Value	Э	Unit
Farameter	Symbol	Min.	Тур.	Max.	Unit
Muminous Flux		21	27		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.

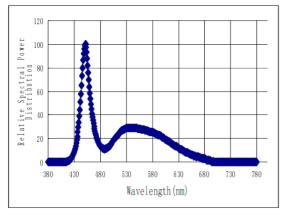
	Ranks Combi	nation (IF = 20mA)	
Rank			
Luminious Intensity			

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.:	M11A4005
							Customer:	
DRW:	Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009
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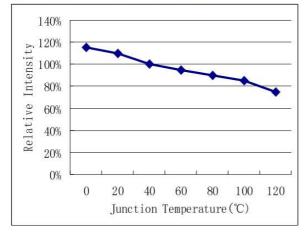




White color spectrum, TA=25°C Pure White



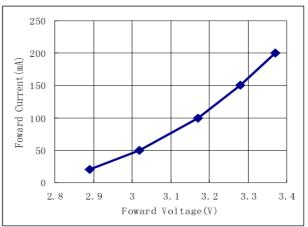
Relative Light Output vs. Junction Temperature (All series) at IF=150mA, TA=25°C



Helative Spectral Dower Helative Spectral Dow

Warm white





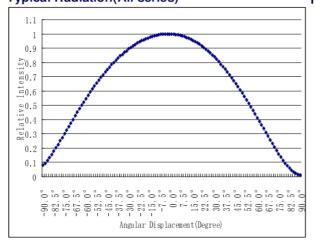
							PLCC3 L	ED Color Warm White
							Part No.:	M11A4005
							Customer:	
DRW:	Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009
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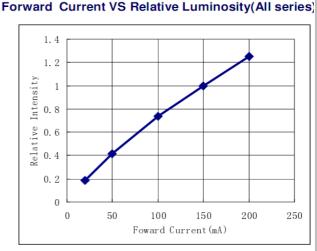




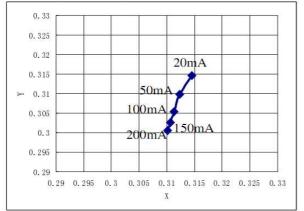
Typical Electrical/ Optical Characteristics Curves (Ta=25°C Unless Otherwise Noted)

Typical Radiation(All series)

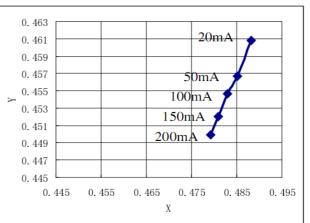




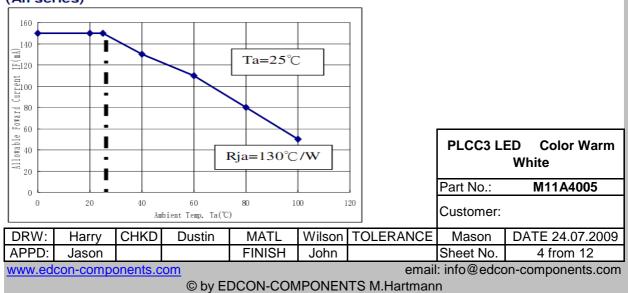
Forward Current VS Chromaticity Coordinate: TA=25 $^{\circ}$ C (Pure white)



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



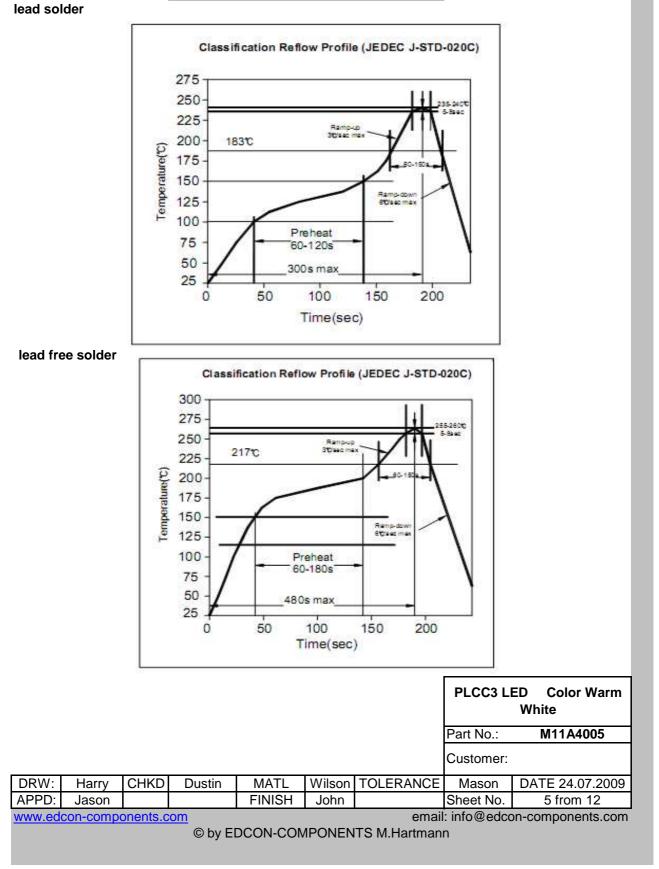
Ambient Temperature. VS Allowable Forward Current (All series)





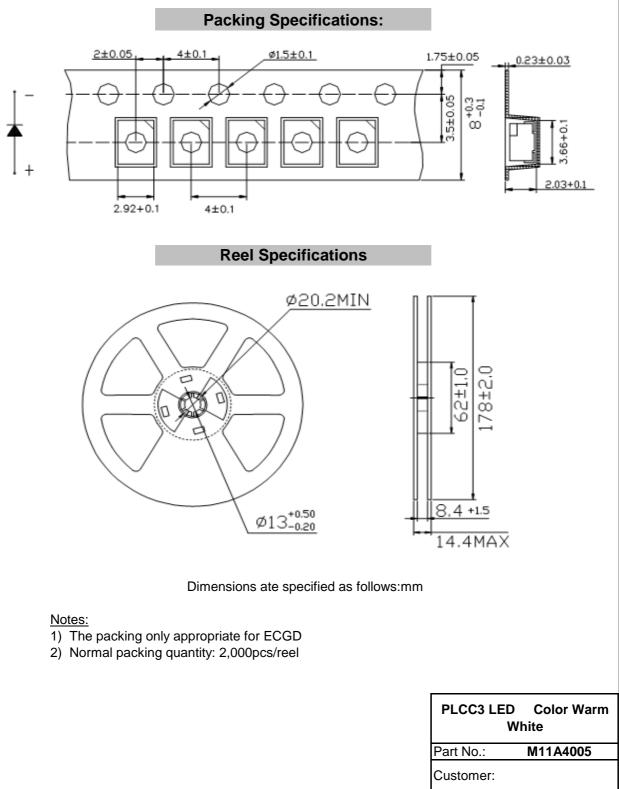


Solder Condition









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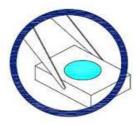




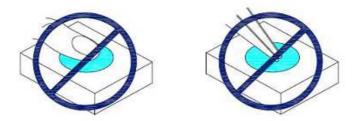
Handling Precautions

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 should be as large as possible.

MATL

FINISH

Dustin

diamete	r of the nozzle	PLCC3 LED Color Warm White				
		Part No.:	M11A400	5		
		Customer:				
Wilson	TOLERANCE	Mason	DATE 24.07.	2009		
John		Sheet No.	7 from 12	2		

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Harry

Jason

CHKD

DRW:

APPD:

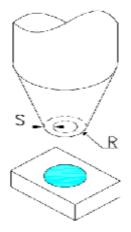






5. A pliable material is suggested for the nozzle tip to avoid scratching or damaging the LED surface during pickup.

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.



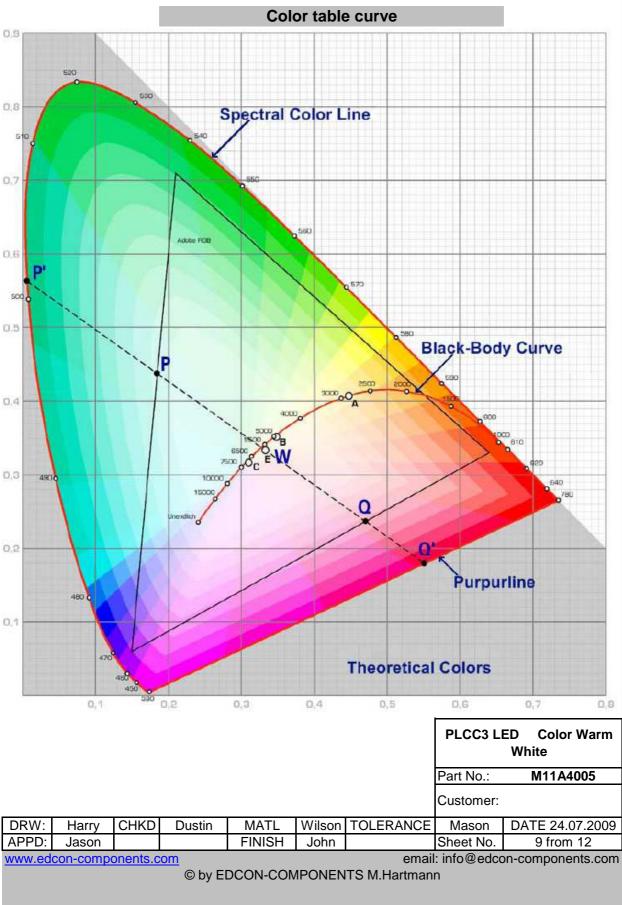
							PLCC3 LI	ED Color Warm White
							Part No.:	M11A4005
							Customer:	
DRW:	Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009
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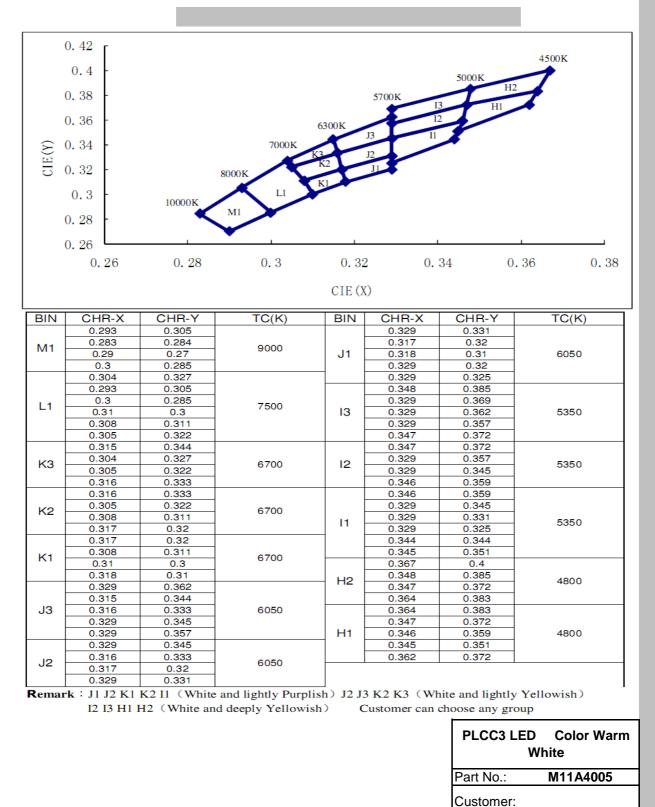












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	^{0.46} [
							2650K
	0.44				3050K	- /	-
					-	/ /	
			3500K	1	-	_	
	0.42		*	1-			
E)			4/		1		
CLE(Y)				-	/		
	0.4	3	-	7 /			
		+	-/-		7		
	0.38	2	-	-			
			В	А			
		D	C	200	72		
	0.36	0. 4	0.42	0, 44	0.46	5 0. -	18 0.
	0.000	0.1	0.12	CIE(X)	0		10. 0.1
BIN	CHR-X	CHR-Y	TC(K)	BIN	CHR-X	CHR-Y	TC (K)
DIN	0. 435	0. 429	IC(K)	DIN	0.466		10 (K)
	0.435	0.429		3.0	0.45	0.44 0.436	
D4	0, 411	0.405	3375	B4	0.441	0.419	2950
	0. 427	0.413		-	0.457	0.423	
	0. 427	0.413			0.457	0. 423	
	0.411	0.405	101001020000	100000	0.441	0.419	000000000
D3	0.405	0.39	3375	B3	0.433	0.403	2950
	0.42	0.398			0.449	0.408	
	0.42	0.398		25	0.449	0.408	
D2	0.405	0.39	3375	B2	0.433	0.403	2950
04	0.399	0.375	3313	D2	0.426	0.388	2950
	0.412	0.381			0.44	0.392	
	0.412	0.381			0.44	0.392	
D1	0.399	0.375	3375	B1	0.426	0.388	2950
DI	0.395	0.365	3313	DI	0.42	0.375	2330
	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
01	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	0.408	
	0. 433	0.403			0.464	0.412	
	0.433	0.403			0.464	0.412	
C2	0. 42	0.398	3150	A2	0.449	0.408	2750
	0.412	0.381	101 TO 100	200000-000	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		1	0.432 0.446	0.378 0.381	
	0.42						

							PLCC3 L	ED Color Warm White
							Part No.:	M11A4005
							Customer:	
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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	4325	F1	0. 372	0.364	3985
65	0.36	62	0.373	4320	ГІ	0.369	0.35	3985
	0. 37	76	0.382			0. 382	0.358	
	0. 37	76	0.382			0. 417	0.42	
G2	0.30	62	0.373	4325	E3	0.398	0. 411	3660
02	0. 35	59	0.356	4525	EO	0. 392	0.391	
	0.33	72	0.364			0. 409	0.4	
	0.37	72	0.364			0. 409	0.4	
G 1	0.35	59	0.356	4325	E2	0. 392	0.391	3660
01	0. 35	56	0.341	1020	L2	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		0.4	3985	E1	0. 387	0.374	3660
	0. 37		0.382	0000		0. 382	0.358	
	0. 39		0.391			0.396	0.367	
	0. 39		0.391					
F2	0. 37		0. 382	3985				
	0. 37		0.364					
	0. 38	87	0.374					
0. « 0. «	42 -		4500K	4	150K	3820	ĸ	3500K
0.4	.4 - 38 - 36 -	2	3	4 F	150K	3820 E	ĸ	3500K
0. « 0. (1) 11 10 11 10 11 10 11 10 11 11 11 11 11	.4 - 38 - 36 - 34 -	1	G G	F	. 38 CIE (X	E 0. 39	к 	3500K
0 0. E 0. : 0. : 0. :	.4 - 38 - 36 - 34 -	Ľ	G G	F	. 38	E 0. 39		
0. 4 0. 10 0. 1 0. 1 0. 1	.4 - 38 - 36 - 34 -	Ľ	G G	F	. 38	E 0. 39		0.41 0.42
0 0. E 0. : 0. : 0. :	.4 - 38 - 36 - 34 -	Ľ	G G	F	. 38	E 0. 39	0.4	0.41 0.42 ED Color Warm
0. 4 0. 10 0. 1 0. 1 0. 1	.4 - 38 - 36 - 34 -	Ľ	G G	F	. 38	E 0. 39	0. 4 PLCC3 L	0.41 0.42 ED Color Warm White
0. 4 0. 10 0. 1 0. 1 0. 1	.4 - 38 - 36 - 34 - 32 0.35	Ľ	G G	F	. 38 CIE (X	E 0. 39	0.4 PLCC3 L Part No.:	0.41 0.42 ED Color Warm White
0. 4 0. 1 0. 1 0. 1 0. 1	.4 - 38 - 36 - 34 -	0.3	3 G 5 0.	F 37 0	. 38 CIE (X	E 0. 39	0. 4 PLCC3 L Part No.: Customer:	0.41 0.42 ED Color Warm White M11A4005