



PLCC3 LED

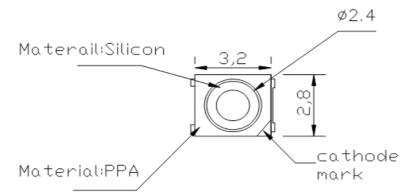
Color Nature

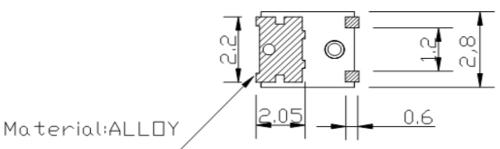
White

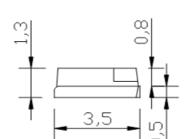
Applications

- 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.

otherwis	e noted.						Part No.:	M11A4007
							Customer:	
DRW:	Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009
APPD:	Jason			FINISH	John		Sheet No.	1 from 12
www.ed	con-comp	onents c	om			emai	l·info@edco	n-components com





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

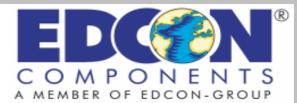
Typical Electrical & Optical Characteristics (IF=20mA and Ta = 25°C)

M11A4007	Code	AW4	Color Rank	L1, N	11
Parameter	Symbol		Value	9	Unit
Falameter	Symbol	Min.	Тур.	Max.	Onit
Muminous Flux		16	21		Lm
Correlated Color Temp.	ССТ		8500		K
CRI	Ra	70	75		
Forward Voltage	Vf		3,2	4,5	V
View Angle	20 1/2		120		deg.

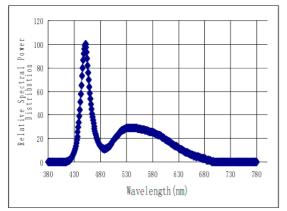
	Ranks Combir	nation (IF = 20mA)	
Rank			
Luminious Intensity			

Notes:							PLCC3 LE	D Color Nature
1. Toler	ance of m	easuren	nent of lumi	nous intensi	ity	: ±15%	FLOOJ LL	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.:	M11A4007
							Customer:	
DRW:	Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009
APPD:	Jason			FINISH	John		Sheet No.	2 from 12
www.ed	con-comp	onents.c	om			email	: info@edco	on-components.com
			© by El	DCON-CON	IPONEN	TS M.Hartman	n	

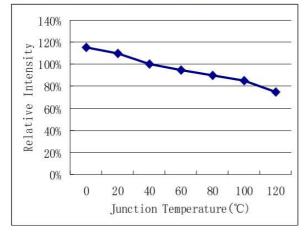




White color spectrum, TA=25°C Pure White



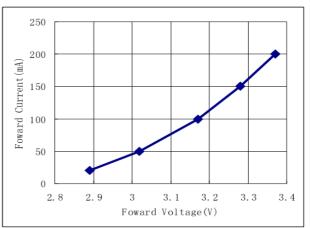
Relative Light Output vs. Junction Temperature (All series) at IF=150mA, TA=25°C



Helative Spectral power Helative Spectral pow

Warm white

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



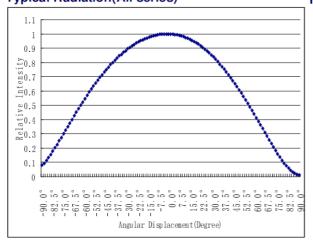
							PLCC3 LE	ED Color Nature White
							Part No.:	M11A4007
							Customer:	
DRW:	Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009
APPD:	Jason			FINISH	John		Sheet No.	3 from 12
www.edd	con-comp	onents.c	om			email	: info@edco	on-components.com
			© by El	DCON-COM	IPONEN	TS M.Hartman	n	

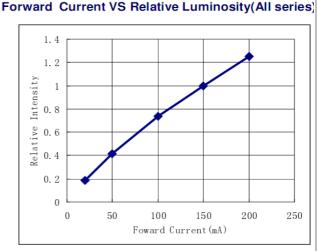




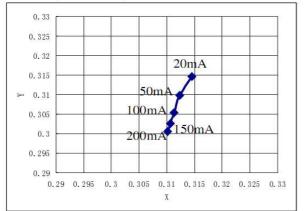
Typical Electrical/ Optical Characteristics Curves (Ta=25°C Unless Otherwise Noted)

Typical Radiation(All series)

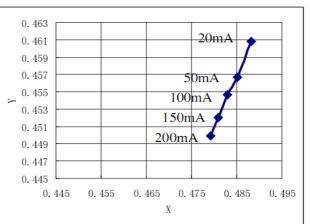




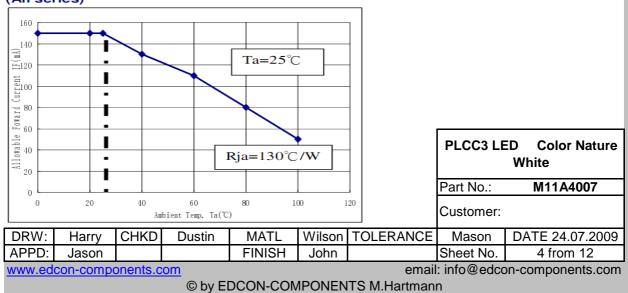
Forward Current VS Chromaticity Coordinate: TA=25℃ (Pure white)



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



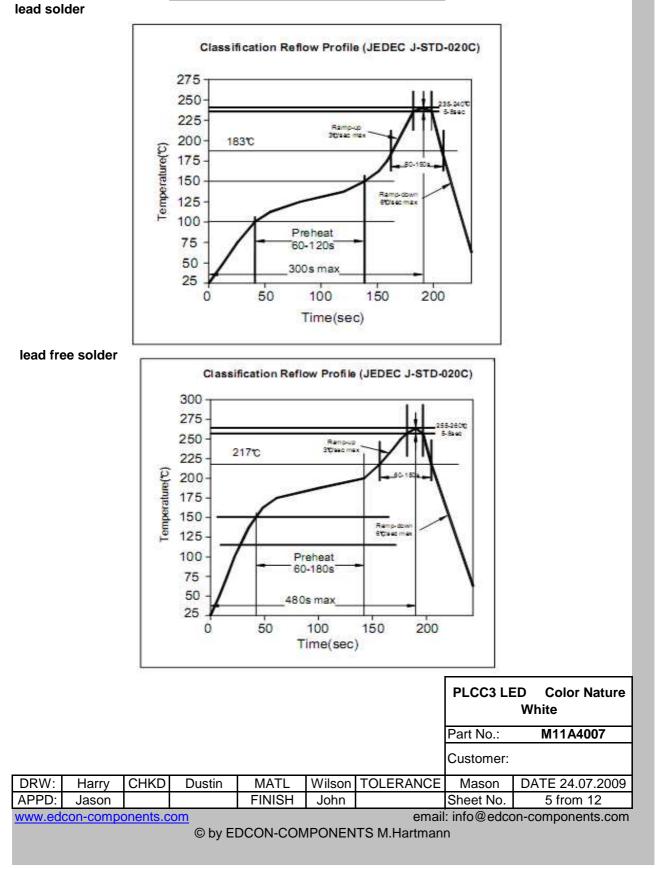
Ambient Temperature. VS Allowable Forward Current (All series)





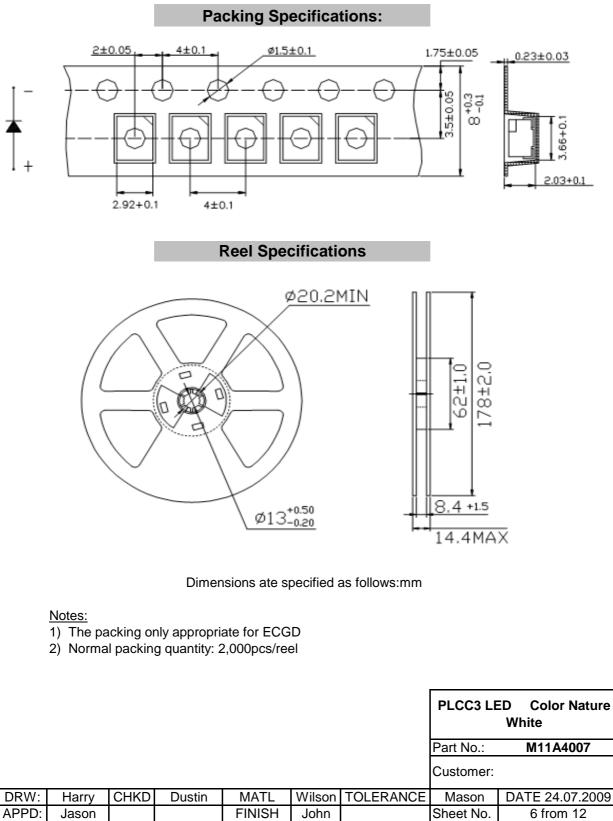


Solder Condition









www.edcon-components.com

email: info@edcon-components.com © by EDCON-COMPONENTS M.Hartmann

R

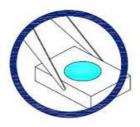




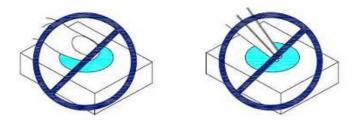
Handling Precautions

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

MATL

FINISH

Dustin

he nozzle	PLCC3 LE		Color Nature hite
	Part No.:		M11A4007
	Customer:		
ERANCE	Mason	DA	ATE 24.07.2009
	Sheet No.		7 from 12

www.edcon-components.com email: info@edcon-components.com © by EDCON-COMPONENTS M.Hartmann

Wilson TOL

John



Harry

Jason

CHKD

DRW:

APPD:

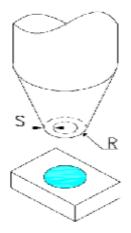






5. A pliable material is suggested for the nozzle tip to avoid scratching or damaging the LED surface during pickup.

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.



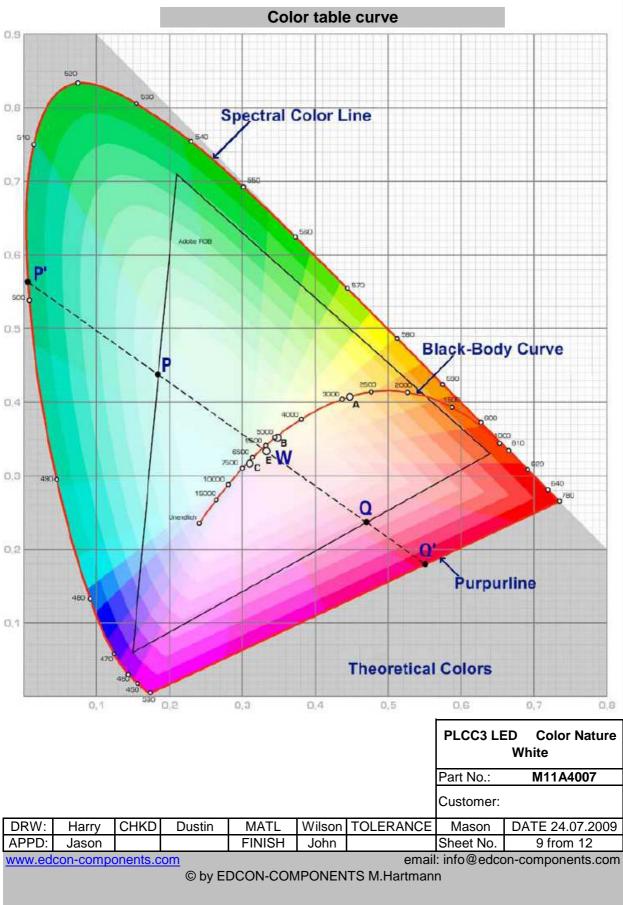
							PLCC3 LE	D Color Nature White
							Part No.:	M11A4007
							Customer:	
DRW:	Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009
APPD:	Jason			FINISH	John		Sheet No.	8 from 12
www.ed	con-comp	onents.c	<u>om</u>			email	: info@edco	on-components.com









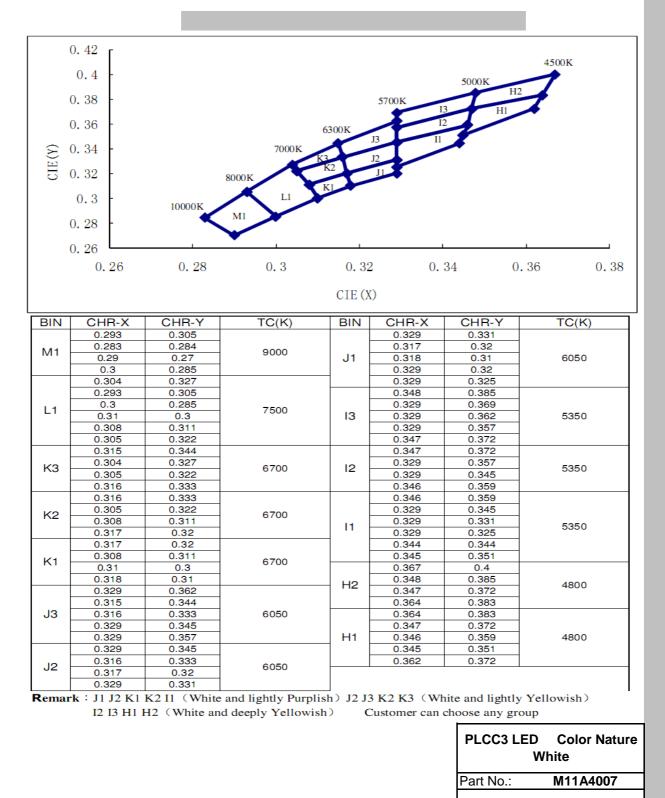












Customer: DRW: Harry CHKD Dustin MATL Wilson TOLERANCE Mason DATE 24.07.2009 APPD: FINISH Sheet No. 10 from 12 Jason John email: info@edcon-components.com www.edcon-components.com









	0.46						
					20502		2650K
	0.44 -				3050K	- /	
				-	- /		
	in and a		3500K	1		_	
	0.42		-	1-			
Ę.			4/		1		
01E (1)				-	1 /		
	0.4	3	-	7 1			
	0.38 -	2	1	7			
	0.38		В	А	1 march 1		
	0.36	P	C		<i>i</i> :		
	0.38	0. 4	0.42	0.44	0.46	5 0.	48 0.
				CIE(X)			
BIN	CHR-X	CHR-Y	TC(K)	BIN	CHR-X	CHR-Y	TC(K)
	0.435	0.429			0.466	0.44	
DA	0.417	0.42	2275	D.4	0.45	0.436	2050
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	
D3	0.411	0.405	3375	B3	0.441	0.419	2950
DS	0.405	0.39	337 9	Бэ	0.433	0.403	2950
	0.42	0.398			0.449	0.408	
	0.42	0.398			0.449	0.408	
D2	0.405	0.39	3375	B2	0.433	0.403	2950
04	0.399	0.375	0010	02	0.426	0.388	2.550
	0.412	0.381			0.44	0.392	6
	0.412	0.381			0.44	0.392	_
D1	0.399	0.375	3375	B1	0.426	0.388	2950
	0.395	0.365	10000	0000	0.42	0.375	-
	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	0.408	-
	0. 433	0.403			0.464	0.412	6
	0.433	0.403			0.464	0.412	-
C2	0. 42	0.398	3150	A2	0.449	0.408	2750
	0.412	0.381			0.44	0.392	
	0.426	0.388	-		0.454	0.395	
	0.426	0.388			0.454	0.395	4
C1	0.412	0.381	3150	A1	0.44	0.392	2750
	0.407	0.37			0.432	0.378	-
	0.42	0.375			0.446	0.381	

							PLCC3 LE	ED Color Nature White
							Part No.:	M11A4007
							Customer:	
DRW:	Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009
APPD:	Jason			FINISH	John		Sheet No.	11 from 12
www.ed	con-comp	onents.c				email		on-components.com









BIN	CHR-X	CHR-Y	TC(K)	BIN	CHR-X	CHR-Y	TC (K)
	0.38	0.4			0. 387	0.374	
6.2	0.365	0.389	4205	E1	0.372	0.364	20.05
G3	0.362	0.373	4325	F1	0.369	0.35	3985
	0.376	0. 382			0. 382	0.358	
	0.376	0. 382			0. 417	0.42	
C 9	0.362	0. 373	4295	E3	0.398	0. 411	2000
G2	0.359	0.356	4325	Eð	0. 392	0.391	3660
	0.372	0.364			0. 409	0.4	
	0.372	0.364			0. 409	0.4	
G1	0.359	0.356	4995	E2	0. 392	0.391	2660
61	0.356	0.341	4325	E2	0. 387	0.374	3660
	0.369	0.35			0. 402	0.382	
	0.398	0. 411			0. 402	0.382	
F3	0.38	0.4	3985	E1	0. 387	0.374	3660
10	0.376	0. 382	3 300	LI	0. 382	0.358	
	0.392	0.391			0.396	0.367	
	0.392	0.391					
F2	0.376	0. 382	3985				
1 2	0.372	0.364	0.000				
	0. 387	0.374					
0.44 0.42 0.4	2 -	4500K	41	150K	3820K		3500K
0.42	2 -	4500K 3 2 G	41 F	150K	3820K E		3500K
0.42 0.4 원 0.38 번 0.36 0.34 0.34		3 G	F		E		3500K
0.42 0.4 원 0.38 번 0.36 0.34 0.34		3 G	F	. 38	E 0. 39 0		0.41 0.42
0.42 0.4 원 0.38 번 0.36 0.34 0.34		3 G	F	. 38	E 0. 39 0		0.41 0.42 ED Color Natur
0.42 0.4 원 0.38 0.34 0.34		3 G	F	. 38	E 0. 39 0		0.41 0.42 ED Color Natur White
0.42 0.4 0.38 0.36 0.34		3 G	F	. 38 CIE (X)	E 0. 39 0	PLCC3 LE	0.41 0.42 ED Color Natur White