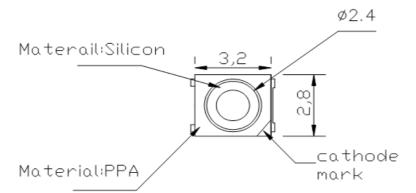


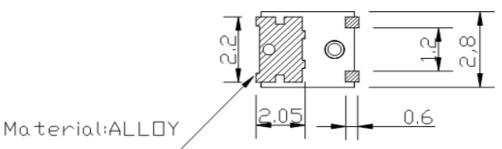


Applications

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

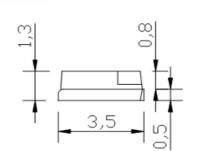
Package Dimensions





PLCC3 LED

Color White



Notes:

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

otherwis	e noted.						Part No.:	M11A4001
							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)

M11A4001	Code		Color Rank		
Parameter	Symbol		Value	;	Unit
Falameter	Symbol	Min.	Тур.	Max.	Unit
Muminous Flux		16	21		Lm
Correlated Color Temp.	CCT		3000		K
CRI	Ra	70	75		
Forward Voltage	Vf		3,2	4,5	V
View Angle	20 1/2		120		deg.

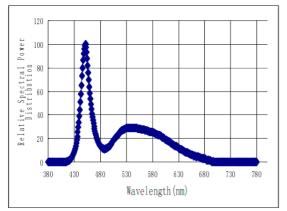
	Ranks Combin	nation (IF = 20mA)	
Rank			
Luminious Intensity			

Notes:								
1. Toler	ance of m	easuren	nent of lumi	nous intens	ity	: ±15%	PLCC3 LI	ED Color White
2. Toler	ance of m	easuren	nent of chro	matic coord	linates	: ±0.02		
3. Toler	ance of m	easuren	nent of forw	ard voltage		: ±0.1V	Part No.:	M11A4001
							Customer:	
DRW:	Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009
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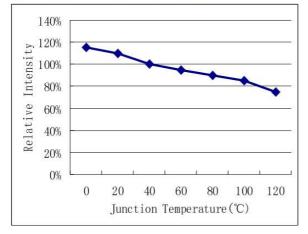




White color spectrum, TA=25°C Pure White



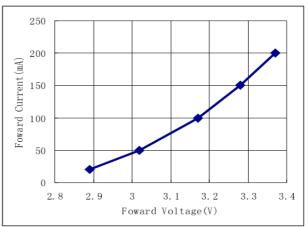
Relative Light Output vs. Junction Temperature (All series) at IF=150mA, TA=25°C



Helative Spectral power Helative Spectral pow

Warm white





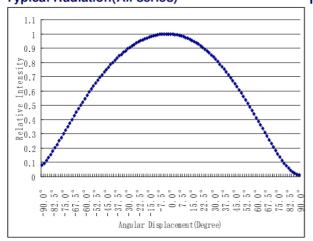
							PLCC3 L	ED Color White
							Part No.:	M11A4001
							Customer:	
DRW:	Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009
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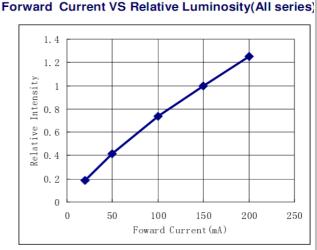




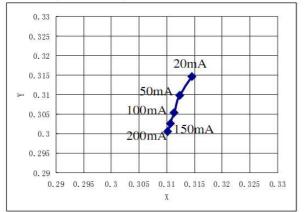
Typical Electrical/ Optical Characteristics Curves (Ta=25°C Unless Otherwise Noted)

Typical Radiation(All series)

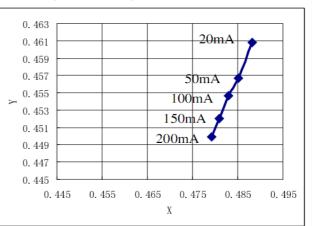




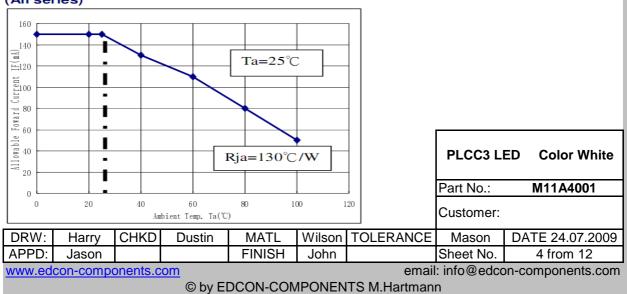
Forward Current VS Chromaticity Coordinate: TA=25℃ (Pure white)



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



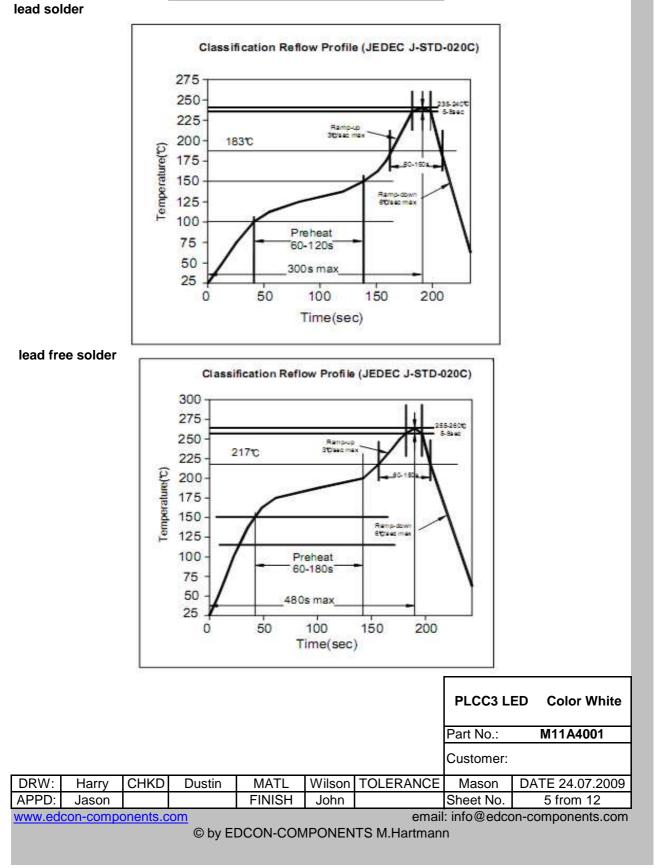
Ambient Temperature. VS Allowable Forward Current (All series)





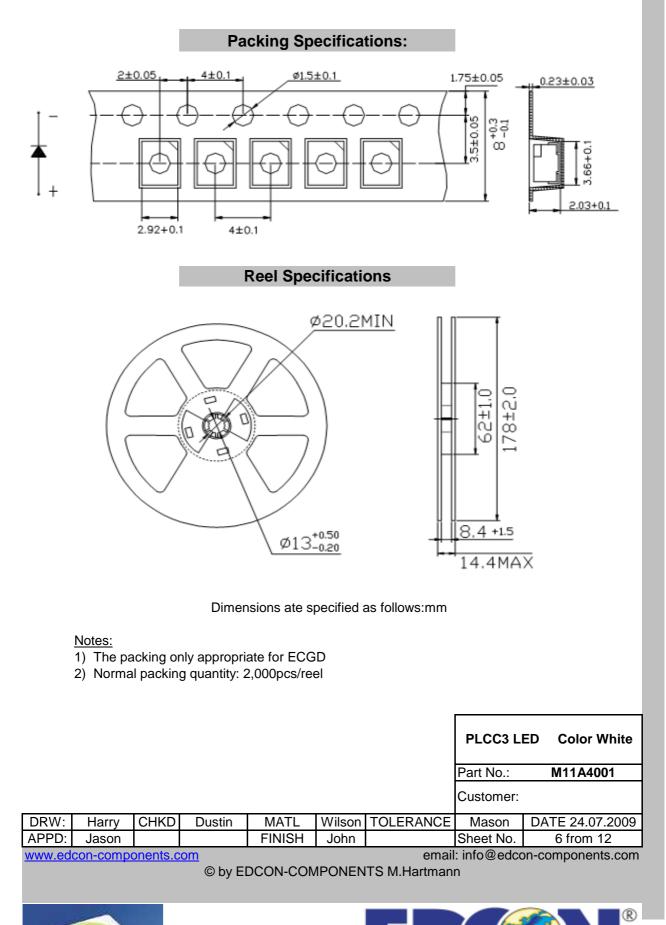


Solder Condition









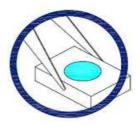




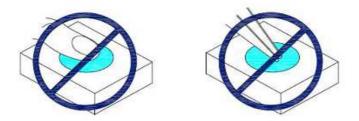
Handling Precautions

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 should b

of the LED be as large	•		s. The inner	diamete	er of the nozzle	PLCC3 LE	ED Color White
						Part No.:	M11A4001
						Customer:	
Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009
Jason			FINISH	John		Sheet No.	7 from 12
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DRW APPD

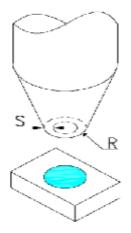






5. A pliable material is suggested for the nozzle tip to avoid scratching or damaging the LED surface during pickup.

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 White
							Part No.:	M11A4001
							Customer:	
DRW:	Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009
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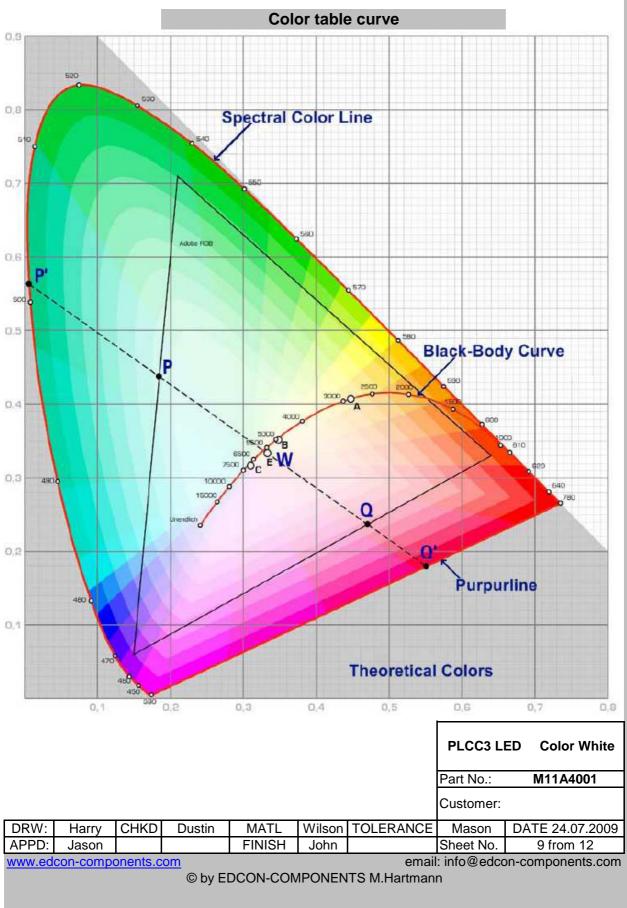
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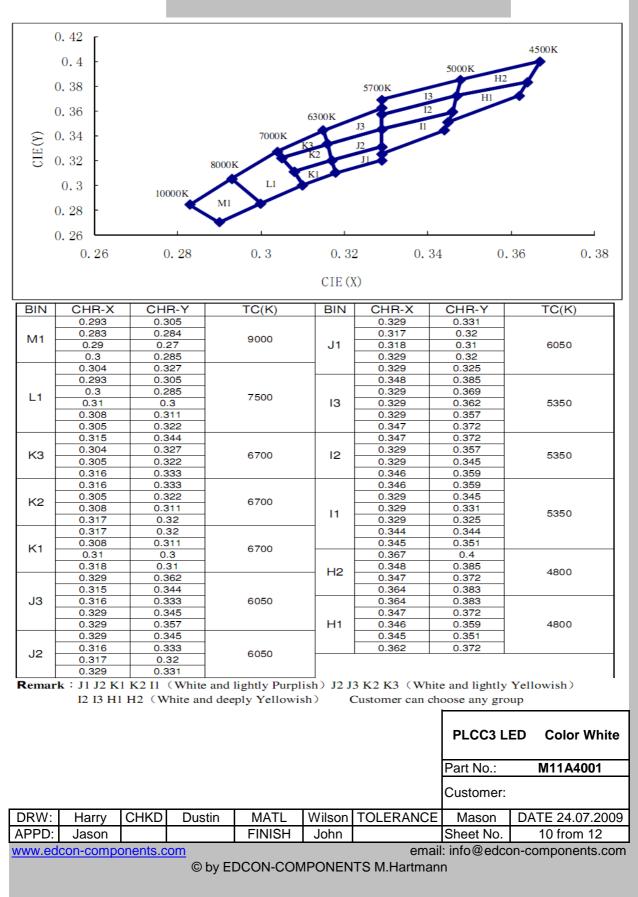




















	0.46 _Г						
							2650K
					3050K	-	
	0.44				-	7 /	
			3500K	-			
	0.42		*	14			
E C	1200201220020		4/		/		
01E (1)			-	1	/		
-	0.4	3	-	71			
		2	4				
	0.38		T	A			
	and the second	1 D	СВ				
	0.36	P		(d)) (d))	E		
	0.38	0.4	0.42	0.44	0.46	5 0. 4	18 0.
				CIE(X)			
BIN	CHR-X	CHR-Y	TC(K)	BIN	CHR-X	CHR-Y	TC(K)
	0. 435	0.429			0.466	0.44	
DA	0.417	0.42	2275	D.4	0.45	0.436	205.0
D4	0.411	0.405	3375	B4	0.441	0.419	2950
1	0.427	0.413			0.457	0.423	
	0.427	0.413			0.457	0.423	
DO	0.411	0.405		na	0.441	0.419	2050
D3	0.405	0.39	3375	B3 -	0.433	0.403	2950
D3	0.42	0.398			0.449	0.408	
	0.42	0.398		2	0.449	0.408	
DO	0.405	0.39	0075	na	0.433	0.403	2052
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	2052
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	2250	Α4	0.466	0.44	9750
04	0.427	0.413	3250	A4	0.457	0.423	2750
	0.441	0.419			0.472	0.426	
	0.441	0.419		2	0.472	0.426	
C2	0.427	0.413	9170	40	0.457	0.423	0750
C3	0.42	0.398	3150	A3 -	0.449	0.408	2750
	0.433	0.403			0.464	0.412	
	0.433	0.403			0.464	0.412	
C2	0.42	0.398	3150	4.9	0.449	0.408	9750
04	0.412	0.381	9190	A2	0.44	0.392	2750
	0.426	0.388			0.454	0.395	
	0.426	0.388			0.454	0.395	
	0 110	0.381	Marcon and		0.44	0.392	0750
CI	0.412	0.001	2150	A 1			
C1	0.412	0.37	3150	A1 -	0.432	0.378	2750

							PLCC3 L	ED Color White
							Part No.:	M11A4001
							Customer:	
DRW:	Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009
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					1			
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	55	0.389	4995	F1	0. 372	0.364	2085
69	0.30	52	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	1020	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. 35		0.341			0. 387	0.374	
	0.36		0.35			0. 402	0. 382	
	0. 39		0. 411			0. 402	0. 382	
F3	0.3		0.4	3985	E1	0. 387	0. 374	3660
	0. 37		0. 382			0. 382	0. 358	
	0. 39		0.391			0.396	0. 367	
	0. 39		0.391					
F2	0. 37		0. 382	3985				
	0. 32		0. 364 0. 374					
	1. 0. 50	л I.	0.514					
0.4	42 - .4 -		4500K	4	50K	3820	×	3500K
	.4 - 38 - 36 -	2		4 F	150K	3820 E	ĸ	3500K
。 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	.4 - 38 - 36 - 34 -	1	G G	F	. 38 CIE (X)	E 0. 39	K 4	3500K
0. CIE(X) 0.	.4 - 38 - 36 - 34 -	£	G G	F	. 38	E 0. 39		
0. CIE(X) 0.	.4 - 38 - 36 - 34 -	£	G G	F	. 38	E 0. 39	0. 4 PLCC3 L	0.41 0.42 ED Color White
0. CIE(X) 0.	.4 - 38 - 36 - 34 -	£	G G	F	. 38	E 0. 39	0.4	0.41 0.42
0. CIE(X) 0.	.4 - 38 - 36 - 34 -	£	G G	F	. 38	E 0. 39	0. 4 PLCC3 L	0.41 0.42 ED Color White
。 (1) 。 。 。 。	.4 - 38 - 36 - 34 -	£	G G	F 37 0	. 38 CIE (X)	E 0. 39	0. 4 PLCC3 L Part No.:	0.41 0.42 ED Color White M11A4001 DATE 24.07.200
0. 20. 10. 10. 10. 10.	.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 0.42 ED Color White M11A4001