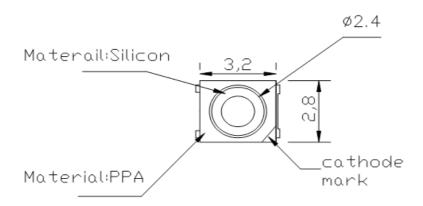


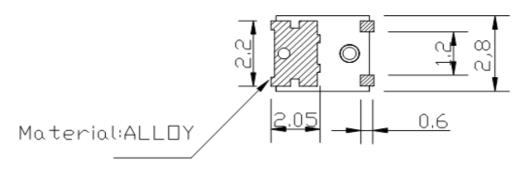


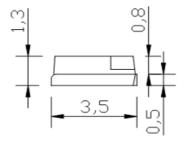
Applications

- 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.

PLCC3 LED Color Nature White

Part No.: **M11A4008**

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

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

M11A4008	Code	HW4	Color Rank	L1, N	11	
Parameter	Symbol		Value			
Farameter	Symbol	Min.	Тур.	Max.	Unit	
Muminous Flux		21	27		Lm	
Correlated Color Temp.	CCT		8500		K	
CRI	Ra	70	75			
Forward Voltage	Vf		3,2	4,5	V	
View Angle	20 1/2		120	deg.		

Ranks Combination (IF = 20mA)

Rank		
Luminious Intensity		

Notes:							PLCC3 LE	ED Color Nature
Tolerance of measurement of luminous intensity						: ±15%	PLCC3 LL	White
2. Toler	ance of m	easuren	nent of chro	matic coord	dinates	: ±0.02		wnite
Tolerance of measurement of forward voltage						: ±0.1V	Part No.:	M11A4008
							Customer:	
DRW:	Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009
APPD:	Jason			FINISH	John		Sheet No.	2 from 12

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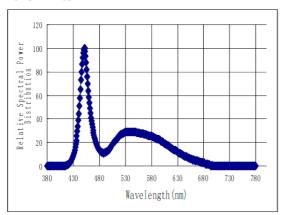
email: info@edcon-components.com

^{*}Pulse width ≤0.1msec duty ≤1/10

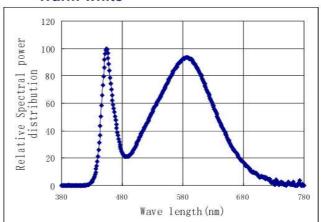




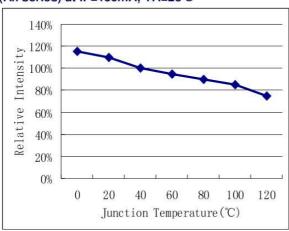
White color spectrum, TA=25°C Pure White



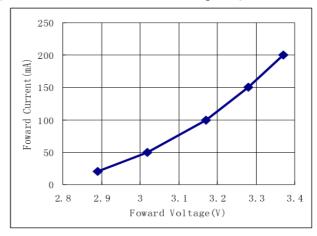
Warm white



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



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



PLCC3 LED Color Nature White

Part No.: M11A4008

Customer:

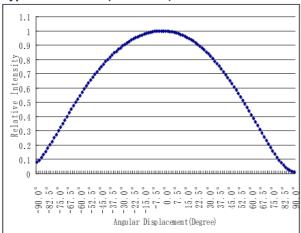
DRW: Harry CHKD Dustin MATL Wilson TOLERANCE Mason DATE 24.07.2009
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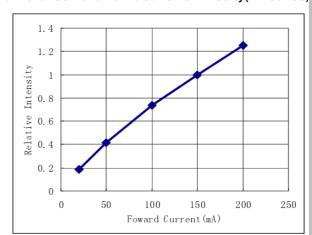


Typical Electrical/ Optical Characteristics Curves (Ta=25°C Unless Otherwise Noted)

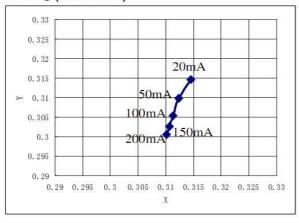
Typical Radiation(All series)



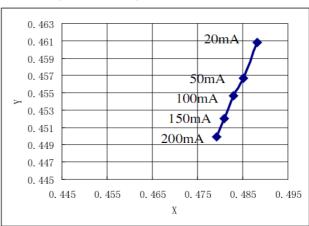
Forward Current VS Relative Luminosity(All series)



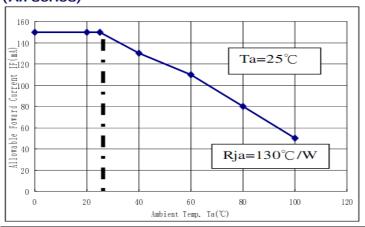
Forward Current VS Chromaticity Coordinate: TA=25°C (Pure white)



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



Ambient Temperature. VS Allowable Forward Current (All series)



PLCC3 LED	Color Nature					
White						
Part No ·	M11 A1008					

Part No.: **M11A4008**

Customer:

DRW: Harry CHKD Dustin MATL Wilson TOLERANCE Mason DATE 24.07.2009
APPD: Jason FINISH John Sheet No. 4 from 12

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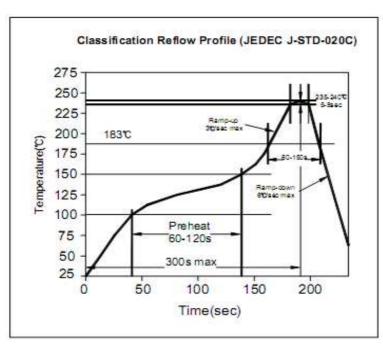
email: info@edcon-components.com



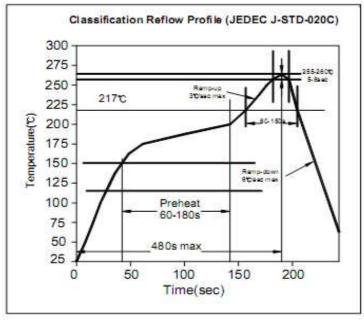


Solder Condition

lead solder



lead free solder



PLCC3 LED Color Nature White

Part No.: **M11A4008**

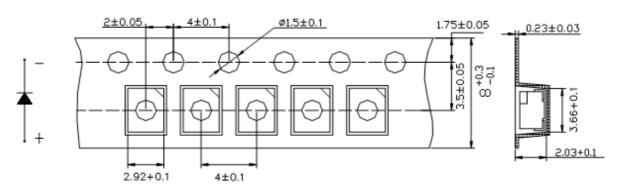
Customer:

DRW: Harry CHKD Dustin MATL Wilson TOLERANCE Mason DATE 24.07.2009
APPD: Jason FINISH John Sheet No. 5 from 12

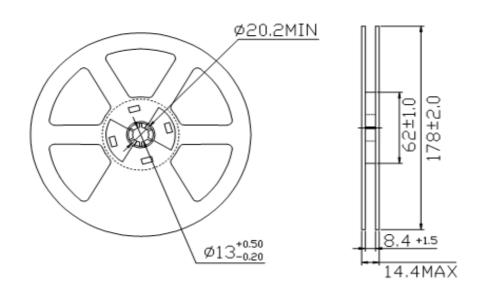




Packing Specifications:



Reel Specifications



Dimensions ate specified as follows:mm

Notes:

- 1) The packing only appropriate for ECGD
- 2) Normal packing quantity: 2,000pcs/reel

PLCC3 LED	Color Nature				
W	/hite				
Part No.:	M11A4008				
Customer:					

DRW:	Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009
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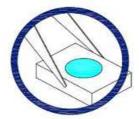




Handling Precautions

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.

PLCC3 LED	Color Nature
WI	hite

Part No.: **M11A4008**

Customer:

DRW:	Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009
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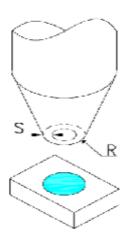








- 5. A pliable material is suggested for the nozzle tip to avoid scratching or damaging the LED surface during pickup.
- 6. The dimensions of the component must be accurately programmed in the pick-and-place machine to insure precise pickup and avoid damage during production.



PLCC3 LED Color Nature White

Part No.: **M11A4008**

Customer:

DRW:	Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009
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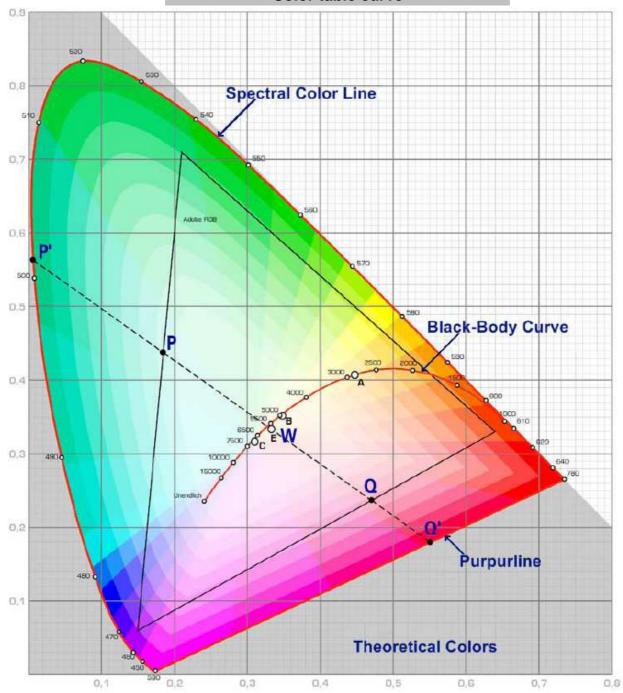








Color table curve



PLCC3 LED Color Nature White

Part No.: M11A4008

Customer:

DRW: Harry CHKD Dustin MATL Wilson TOLERANCE Mason DATE 24.07.2009
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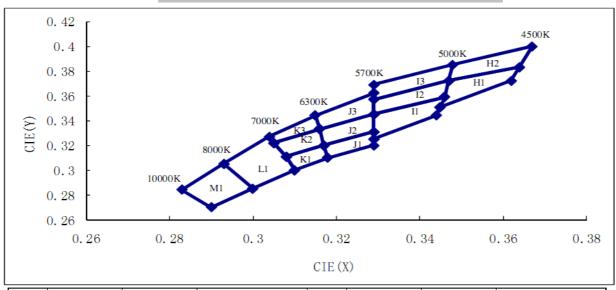
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BIN	CHR-X	CHR-Y	TC(K)	BIN	CHR-X	CHR-Y	TC(K)
M1	0.293	0.305			0.329	0.331	
	0.283	0.284	9000		0.317	0.32	
IVII	0.29	0.27	9000	J1	0.318	0.31	6050
	0.3	0.285			0.329	0.32	
	0.304	0.327			0.329	0.325	
	0.293	0.305			0.348	0.385	
L1 -	0.3	0.285	7500		0.329	0.369	
-' [0.31	0.3	7500	13	0.329	0.362	5350
	0.308	0.311			0.329	0.357	
	0.305	0.322			0.347	0.372	
	0.315	0.344			0.347	0.372	
K3	0.304	0.327	6700	12	0.329	0.357	5350
IN3	0.305	0.322	6700	12	0.329	0.345	3330
	0.316	0.333			0.346	0.359	
	0.316	0.333	6700		0.346	0.359	
K2	0.305	0.322			0.329	0.345	
1 1/2	0.308	0.311		11	0.329	0.331	5350
	0.317	0.32		- ' '	0.329	0.325	3330
	0.317	0.32			0.344	0.344	
K1	0.308	0.311	6700		0.345	0.351	
	0.31	0.3	6700		0.367	0.4	
	0.318	0.31		H2	0.348	0.385	4800
	0.329	0.362		112	0.347	0.372	4800
1 [0.315	0.344			0.364	0.383	
J3	0.316	0.333	6050		0.364	0.383	
	0.329	0.345			0.347	0.372	
	0.329	0.357		H1	0.346	0.359	4800
	0.329	0.345			0.345	0.351	
J2	0.316	0.333	6050		0.362	0.372	
] 32	0.317	0.32	6050				
	0.329	0.331					

Remark: J1 J2 K1 K2 II (White and lightly Purplish) J2 J3 K2 K3 (White and lightly Yellowish) I2 I3 H1 H2 (White and deeply Yellowish) Customer can choose any group

	Color Nature			
Part No.:	M11A4008			
Customer:				

DRW:	Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009
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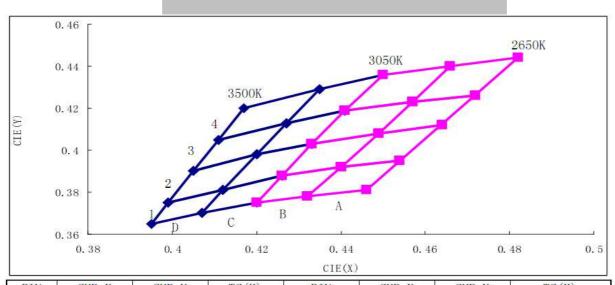
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BIN	CHR-X	CHR-Y	TC(K)	BIN	CHR-X	CHR-Y	TC(K)	
D4	0. 435	0.429	3375	B4	0.466	0.44	2950	
	0.417	0.42			0.45	0. 436		
	0.411	0.405			0.441	0.419	2,550	
	0.427	0.413			0.457	0. 423		
D3	0.427	0.413	9975		0.457	0.423		
	0.411	0.405		D9	0. 441	0.419	2950	
Do	0.405	0.39	3375	В3	0.433	0.403	2950	
	0.42	0.398			0.449	0.408		
	0.42	0.398		B2	0.449	0.408		
Do	0.405	0.39	997 ⊑		0.433	0.403	2950	
D2	0.399	0.375	3375		0.426	0.388	2950	
	0.412	0.381			0.44	0.392		
D1	0.412	0.381	3375	B1	0.44	0.392		
	0.399	0.375			0.426	0.388	0.05:0	
	0.395	0.365			0.42	0.375	2950	
	0.407	0.37			0, 432	0.378		
C4	0.45	0.436	3250	A4	0.482	0.444		
	0.435	0.429			0.466	0.44	9750	
	0.427	0.413			0.457	0.423	2750	
	0.441	0.419			0.472	0.426		
C3	0.441	0.419			0.472	0.426		
	0.427	0.413	3150	А3	0.457	0.423	0750	
	0. 42	0.398			0.449	0.408	2750	
	0. 433	0.403			0.464	0.412		
C2	0. 433	0.403	3150	A2	0.464	0.412		
	0.42	0.398			0.449	0.408	0.75:0	
	0.412	0.381		AZ	0.44	0.392	2750	
	0.426	0.388			0.454	0.395		
C1	0.426	0.388	3150	0.150		0.454	0.395	
	0.412	0.381				0.44	0.392	0750
	0.407	0.37		A1	0.432	0.378	2750	
	0. 42	0.375			0.446	0.381		

PLCC3 LED Color Nature White

Part No.: **M11A4008**

Customer:

DRW: Harry CHKD Dustin MATL Wilson TOLERANCE Mason DATE 24.07.2009

APPD: Jason FINISH John Sheet No. 11 from 12

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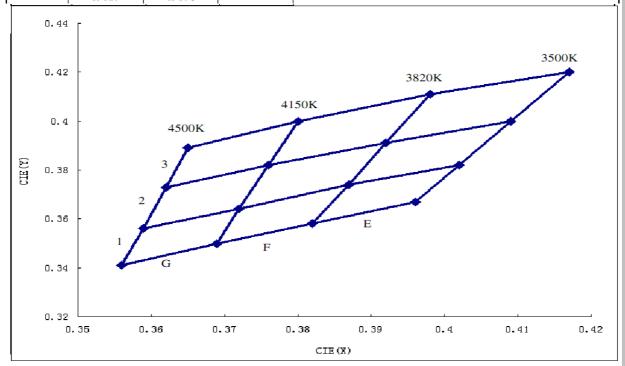








BIN	CHR-X	CHR-Y	TC(K)	BIN	CHR-X	CHR-Y	TC(K)
G3	0.38	0.4	4325	F1	0. 387	0. 374	3985
	0. 365	0. 389			0. 372	0. 364	
65	0. 362	0. 373			0. 369	0. 35	
	0. 376	0. 382			0. 382	0. 358	
	0. 376	0. 382		ЕЗ	0. 417	0. 42	3660
G2	0. 362	0. 373	4325		0. 398	0. 411	
62	0. 359	0. 356			0. 392	0. 391	
	0. 372	0. 364			0. 409	0.4	
	0. 372	0. 364	4325	E2	0. 409	0.4	3660
C1	0. 359	0. 356			0. 392	0. 391	
G1	0. 356	0. 341			0. 387	0. 374	
	0. 369	0.35			0. 402	0. 382	
F3	0. 398	0. 411		E1	0. 402	0. 382	3660
	0.38	0.4	3985		0. 387	0. 374	
	0. 376	0. 382			0. 382	0. 358	
	0. 392	0. 391			0. 396	0. 367	
F2	0. 392	0. 391					
	0. 376	0. 382	3985				
	0. 372	0. 364					
	0. 387	0. 374					



PLCC3 LED Color Nature White

Part No.: **M11A4008**

Customer:

DRW:	Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009
APPD:	Jason			FINISH	John		Sheet No.	12 from 12

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