

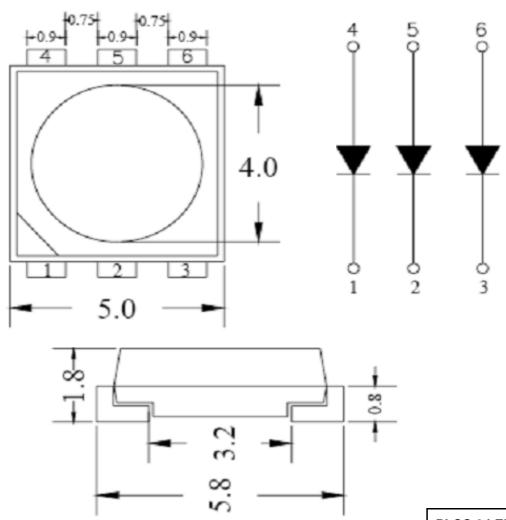




Applications

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

Package Dimensions



Notes:

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

PLCC 6 LED Color White Three Chip

Part No.: **M11A5005**

Customer:

DRW:	Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009
APPD:	Jason			FINISH	John		Sheet No.	1 from 11

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Absolute Maximum Ratings (Ta = 25°C)

Parameter	MAX.	Unit	
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA	
Continuous Forward Current	60	mA	
Reverse Voltage	5	V	
Operating Temperature Range	-25°C to +85°C		
Storage Temperature Range	-40°C to + 100°C		
Lead Soldering Temperature	260°C for 3 Seconds		

^{*}Pulse width ≤0.1msec duty ≤1/10

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

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	l _v	4000	4500		mcd	I _F = 60mA (Note 8)
Luminous Flux (FYI)	Ф	12	14		Lm	I _F = 60mA
Color Donk	Х		0.40		NIL	I _F = 60mA
Color Rank	у		0.41		NIL	I _F = 60mA
Forward Voltage	V _F		3.2	4.0	٧	I _F = 60mA
Reverse Current	I _R			50	μΑ	V _R = 5V

Ranks Combination (IF = 20mA)

Rank		
Luminious Intensity		

Notes:		PLCC 6 L	ED Color White							
Tolerance of measurement of luminous intensity : ±15%								Three Chip		
Tolerance of measurement of chromatic coordinates : ±0.02								niree Chip		
3. Tolerance of measurement of forward voltage : ±0.1V								M11A5005		
							Customer:			
DRW:	Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009		
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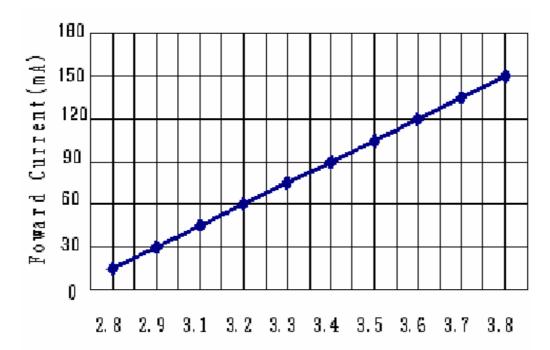
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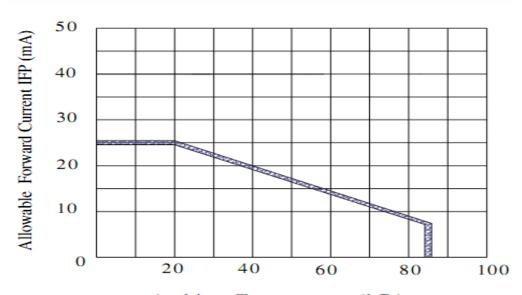








Foward Voltage(V)



Ambient Temperature (° C)

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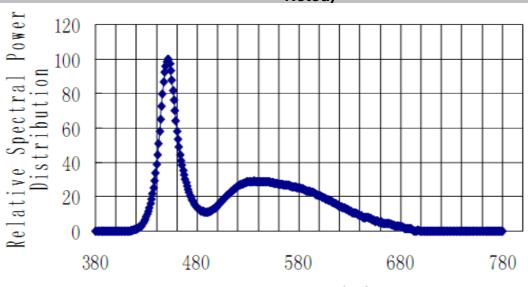
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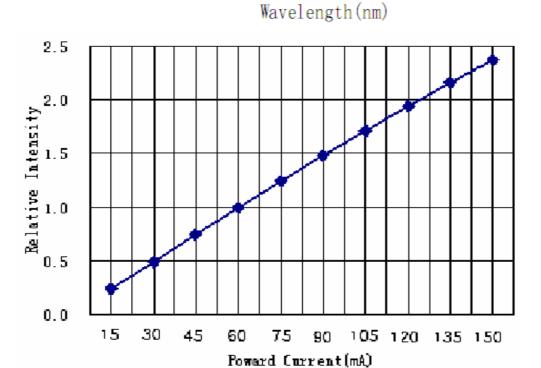






Typical Electrical/ Optical Characteristics Curves (Ta=25°C Unless Otherwise Noted)





Part No.: M11A5005

Part No.:
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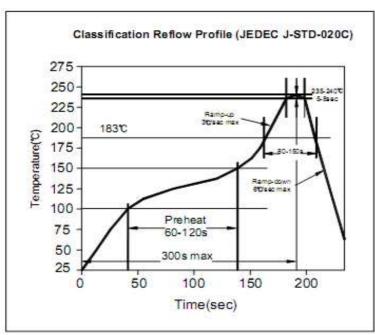




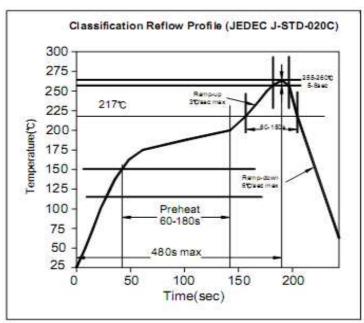


Solder Condition

lead solder



lead free solder



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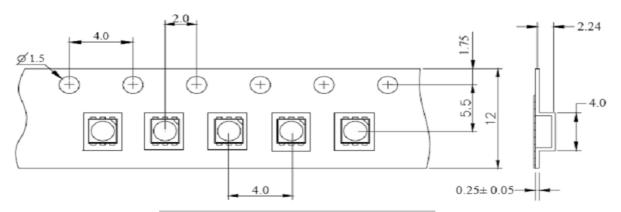
DRW: Harry CHKD Dustin MATL Wilson TOLERANCE Mason DATE 24.07.2009
APPD: Jason FINISH John Sheet No. 5 from 11



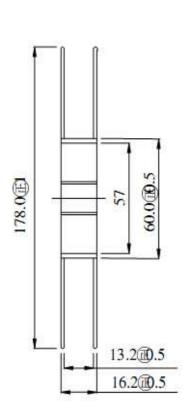


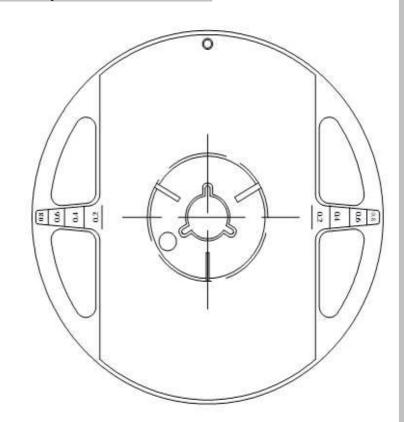


Packing Specifications:



Reel Specifications





Dimensions ate specified as follows:mm

Notes:

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

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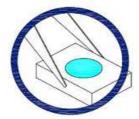




Handling Precautions

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.

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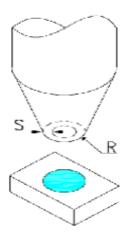








- 5. A pliable material is suggested for the nozzle tip to avoid scratching or damaging the LED surface during pickup.
- 6. The dimensions of the component must be accurately programmed in the pick-and-place machine to insure precise pickup and avoid damage during production.



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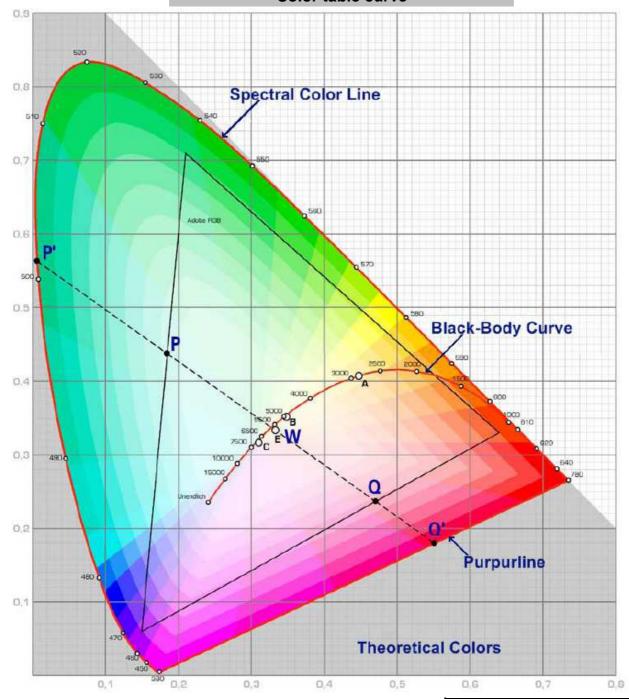








Color table curve



PLCC 6 LED **Color White Three Chip**

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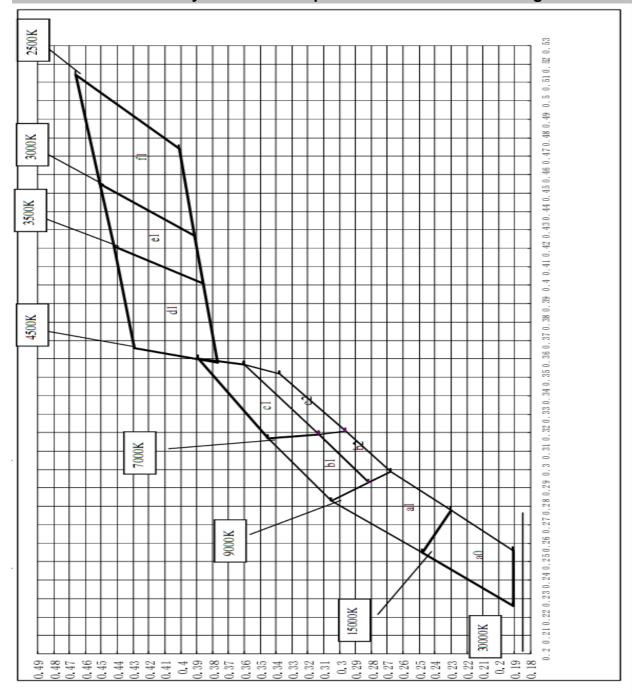








Chromaticity Coordinates Specifications and BIN Grading



PLCC 6 LED **Color White Three Chip**

M11A5005 Part No.:

Customer:

DRW: Harry CHKD Dustin MATL Wilson TOLERANCE Mason DATE 24.07.2009 APPD: **FINISH** Sheet No. 10 from 11 Jason John

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Chromaticity Coordinates Specifications and BIN Grading

	0.319	0.313		0.455	0.451		:	:
	0.293	0.282	el	0.421	0.442		-	:
P2	0.299	0.268		0.401	0.386	:	:	
	0.321	0.296		0.427	0.391		:	:
	X	Y		X	y		:	:
	0.317	0.345		0.421	0.442		-	:
	0.283	0.305		0.366	0.429		-	:
bī	0.293	0.282	dl	0.358	y 0.386 0.377 0.429 0.442 Y 0.391 0.386 0.442 0.451	:	:	:
	0.319	0.313		0.401	0.386		:	:
	X	Y		Х	У		:	:
	0.299	0.268	c2	0.357	0.36			
	0.283	0.305		0.319	0.313			
a.	0.255	0.248		0.321	0.296			
	0.278	0.23		0.352	0.338			
	X	Y		X	Y			
	0.278	0.23		0.357	0.36 Y 0.338 0.296 0.313 0.36		0.514	0.466
	0.255	0.248		0.36	0.389	fl	0.455	0.451
a0	X 0.256 0.226 0.255 0.278 X 0.278 0.255 0.283 0.299 X 0.319 0.293 0.293 0.317 X 0.321 0.299 0.293	Y 0.191 0.191 0.248 0.23 Y 0.23 0.248 0.305 0.268 Y 0.313 0.282 0.305 V.305 V.305 V.305 0.345 V 0.296 0.268 0.282	cl	X 0.319 0.317 0.36 0.357 X 0.352 0.321 0.319 0.357 x 0.401 0.358 0.366 0.421 x 0.427 0.401 0.455	Y 0.313 0.345 0.389		x 0.474 0.427 0.455 0.514	y 0.401 0.391 0.451 0.466
	0.256	0.191		0.319	0.313		0.474	0.401
	×	Y		X	Y		X	V

TC(K)	2500-3000	3000-3500	3500-4500	4500-7000	2000-0000	9000-15000
Factory code	114-7	K4-7	LM4-7	CDEF9-b	CDEF7-9	CDEF4-7
Customer Ranks	fl	e1	lb	c1	19	al
Groop	1	2	3	4	5	9

vores

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