

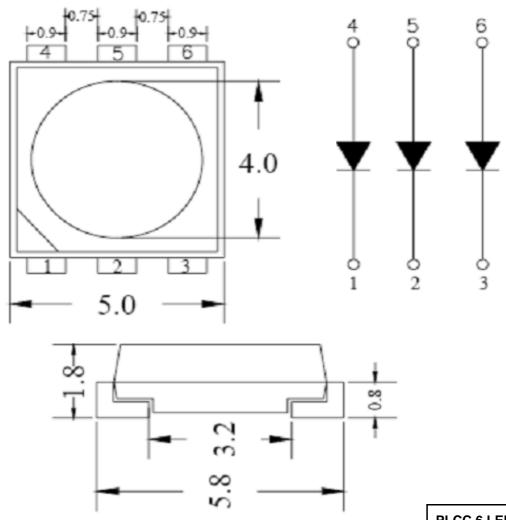




Applications

- 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.: **M11A5006**

Customer:

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

www.edcon-components.com

email: info@edcon-components.com







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	4500	5000		mcd	I _F = 60mA (Note 8)
Luminous Flux (FYI)	Ф	14	16		Lm	I _F = 60mA
Color Ponk	Х		0.33		NIL	I _F = 60mA
Color Rank	у		0.33		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
1. Toler	ance of m	Three Chip						
2. Tolerance of measurement of chromatic coordinates : ±0.02								niree Chip
Toler	ance of m	easuren	: ±0.1V	Part No.:	M11A5006			
							Customer:	
DRW:	Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009
APPD:	Jason			FINISH	John		Sheet No.	2 from 11

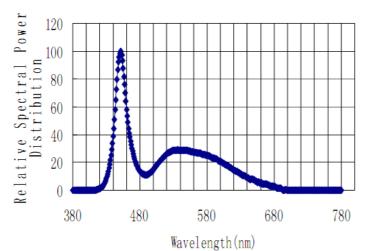
www.edcon-components.com

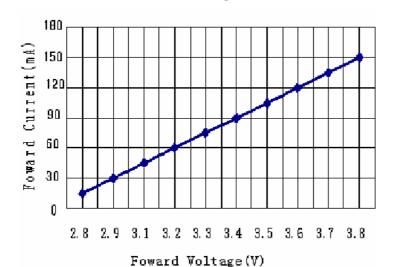
email: info@edcon-components.com

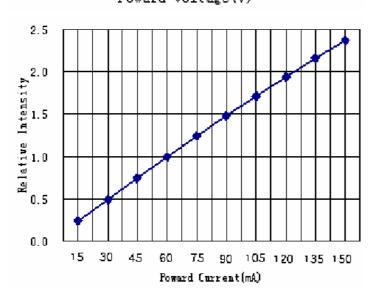












PLCC 6 LED Color White Three Chip

Part No.: **M11A5006**

Customer:

DRW: Harry CHKD Dustin MATL Wilson TOLERANCE Mason DATE 24.07.2009
APPD: Jason FINISH John Sheet No. 3 from 11

www.edcon-components.com

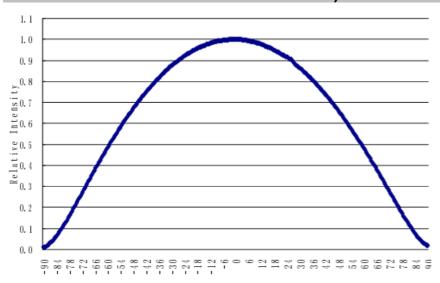
email: info@edcon-components.com



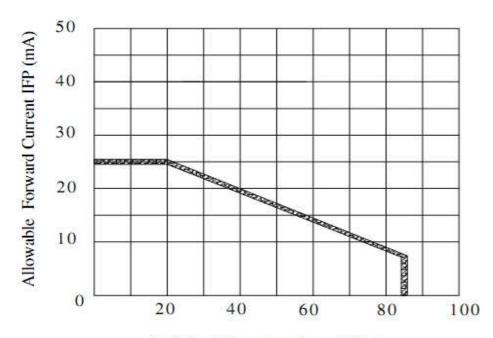




Typical Electrical/ Optical Characteristics Curves (Ta=25°C Unless Otherwise Noted)



Angular Displacement (Degree)



Ambient Temperature (°C)

PLCC 6 LED Color White Three Chip

Part No.: **M11A5006**

Customer:

DRW: Harry CHKD Dustin MATL Wilson TOLERANCE Mason DATE 24.07.2009
APPD: Jason FINISH John Sheet No. 4 from 11

www.edcon-components.com

email: info@edcon-components.com

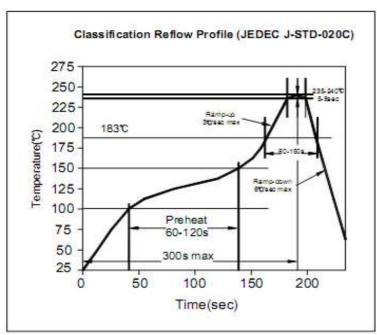




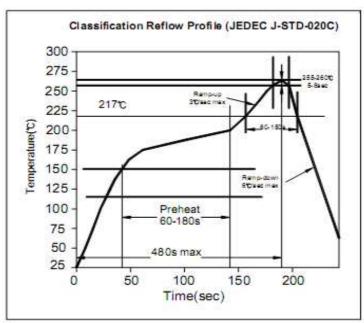


Solder Condition

lead solder



lead free solder



PLCC 6 LED Color White Three Chip

Part No.: **M11A5006**

Customer:

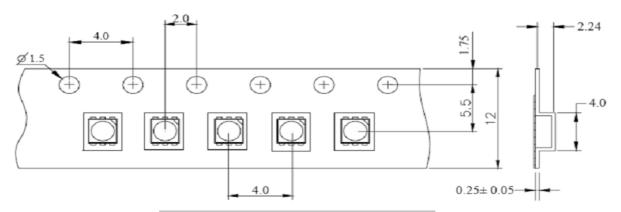
DRW:	Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009
APPD:	Jason			FINISH	John		Sheet No.	5 from 11



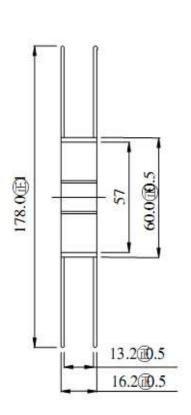


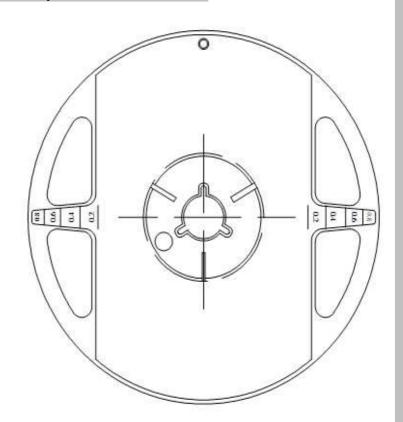


Packing Specifications:



Reel Specifications





Dimensions ate specified as follows:mm

Notes:

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

PLCC 6 LED Color White Three Chip

Part No.: **M11A5006**

Customer:

DRW: Harry CHKD Dustin MATL Wilson TOLERANCE Mason DATE 24.07.2009
APPD: Jason FINISH John Sheet No. 6 from 11

www.edcon-components.com

email: info@edcon-components.com









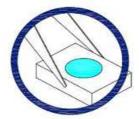




Handling Precautions

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.

PLCC 6 LED Color White Three Chip

Part No.: **M11A5006**

Customer:

DRW: Harry CHKD Dustin MATL Wilson TOLERANCE Mason DATE 24.07.2009
APPD: Jason FINISH John Sheet No. 7 from 11

www.edcon-components.com

email: info@edcon-components.com





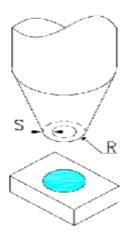








- 5. A pliable material is suggested for the nozzle tip to avoid scratching or damaging the LED surface during pickup.
- 6. The dimensions of the component must be accurately programmed in the pick-and-place machine to insure precise pickup and avoid damage during production.



PLCC 6 LED Color White Three Chip

Part No.: **M11A5006**

Customer:

DRW: Harry CHKD Dustin MATL Wilson TOLERANCE Mason DATE 24.07.2009

APPD: Jason FINISH John Sheet No. 8 from 11

www.edcon-components.com

email: info@edcon-components.com





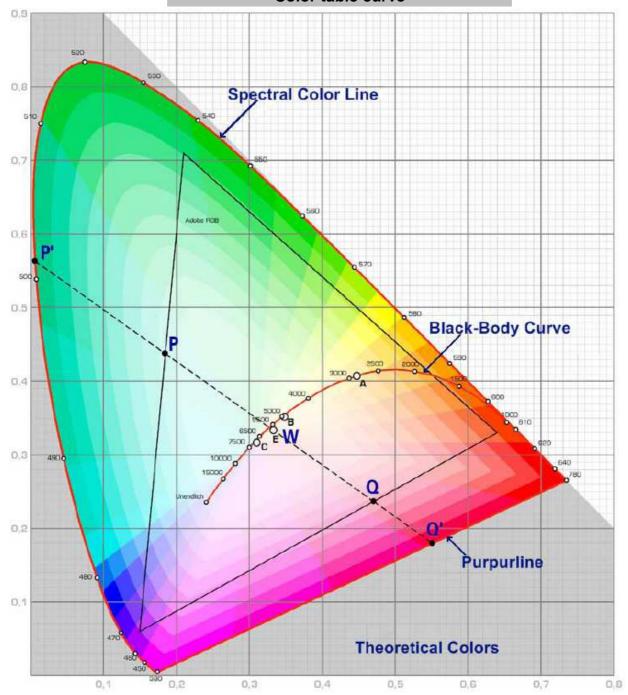








Color table curve



PLCC 6 LED **Color White Three Chip**

Part No.: M11A5006

Customer:

DRW: Harry CHKD Dustin MATL Wilson **TOLERANCE** Mason DATE 24.07.2009 APPD: **FINISH** 9 from 11 Sheet No. Jason John

www.edcon-components.com

email: info@edcon-components.com





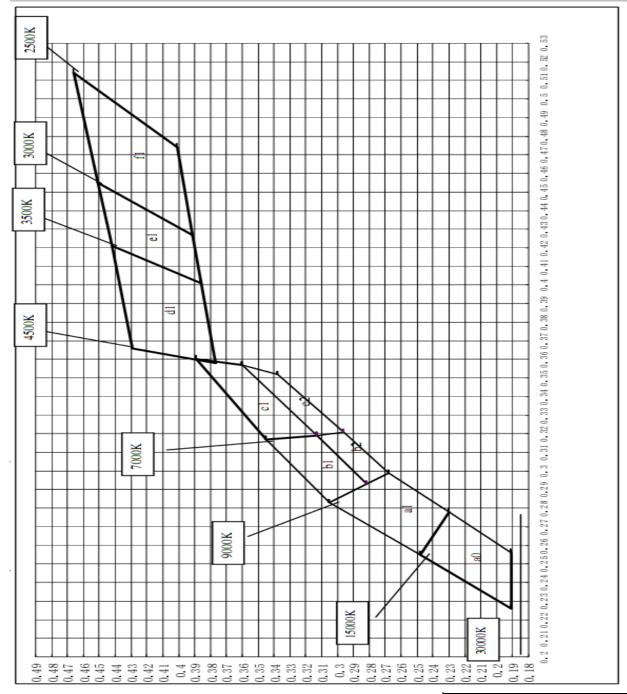








Chromaticity Coordinates Specifications and BIN Grading



PLCC 6 LED **Color White Three Chip**

M11A5006 Part No.:

Customer:

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

www.edcon-components.com

email: info@edcon-components.com













Chromaticity Coordinates Specifications and BIN Grading

	0.319	0.313		0.455	0.451		:	:					
	0.293	0.282	e1	0.421	0.442								
b2	0.299	0.268		0.401	0.386	:	-	:					
	0.321	0.345 Y 0.296 0.268 0.282		0.427	0.391		:	:					
	X	Y		X	y		:	:					
	0.317	0.345		0.421	0.442		:	:					
	0.283 0.317 X 0.321 0.299 0.293	0.305		0.366 0.421 X 0.427 0.401 0.421 0.455	0.429 0.442 Y 0.391 0.386 0.442 0.451		:	:					
bī	0.293	0.282	dl	0.358	0.377		:	:					
	0.319	0.313		0.401	0.386		:	:					
	×	Y		Х	y		:	:					
	0.299	0.268		0.357	0.36								
	0.283	0.305		0.319	0.313								
la 1	0.255	0.248	B	0.321	0.296								
	0.278	0.23							0.352	0.338			
	×	Y		X	Y								
	0.278	0.23		0.357	0.36		0.514	0.466					
	0.255	0.248		0.36	0.389		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	Y 0.191 0.191 0.248 0.23 Y 0.23 0.248 0.305 0.268 Y 0.313 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	Y 0.313 0.345 0.389 0.36 Y 0.338 0.296 0.313 0.36 y 0.386 0.377	fl	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					
	X	Y		X	Y		X	y					

TC(K)	2500-3000	3000-3500	3500-4500	4500-7000	0006-000 <i>L</i>	9000-12000
Factory code	134-7	K4-7	LM4-7	CDEF9-b	CDEF7-9	CDEF4-7
Customer Ranks	fl	el	dl	cl	19	al
Groop	1	2	3	4	5	9

otes:

PLCC 6 LED Color White Three Chip

Part No.: **M11A5006**

Customer:

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

www.edcon-components.com

email: info@edcon-components.com