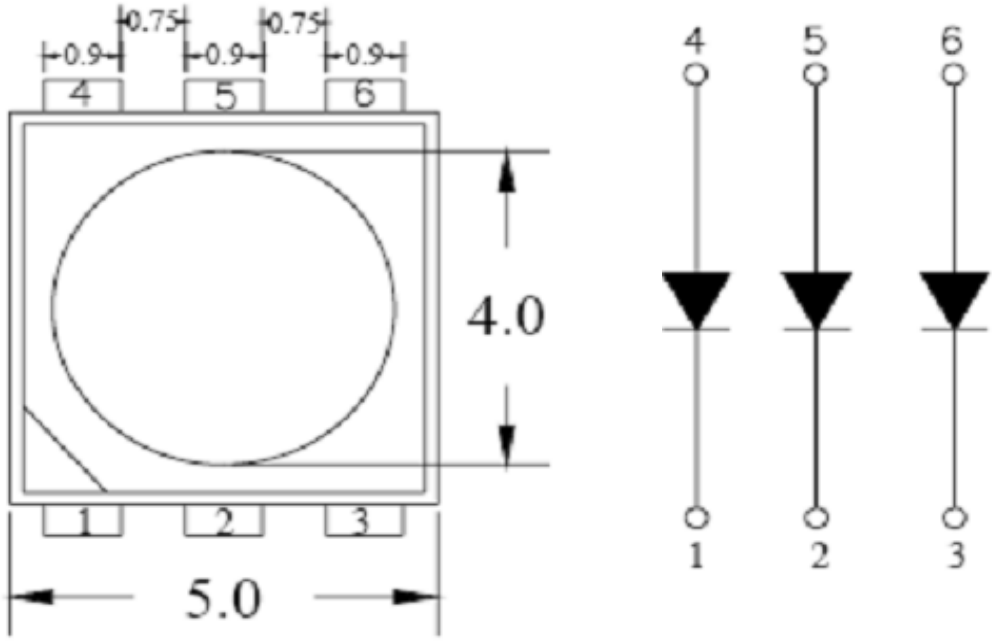
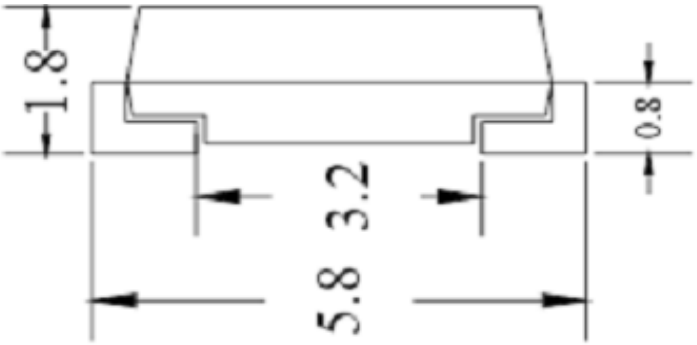
Applications

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

Package Dimensions





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

PLCC 6 LED Color Red Three Chip	
Part No.:	**M11A5003**
Customer:	

DRW:	Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009
APPD:	Jason			FINISH	John		Sheet No.	1 from 9

RoHS Lead Free

EDCON COMPONENTS
A MEMBER OF EDCON-GROUP

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℃ to +85℃	
Storage Temperature Range	-40℃ to + 100℃	
Lead Soldering Temperature	260℃ for 3 Seconds	

*Pulse width ≤0.1msec duty ≤1/10

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I_v	400	600	---	mcd	I_F = 60mA (Note 8)
Luminous Flux (FYI)	Φ_v	1	2	---	Lm	I_F = 60mA
Wavelength	λ	620	---	630	nm	I_F = 60mA
Viewing Angle	2θ1/2	---	120	---	Deg	I_F = 60mA
Forward Voltage	V_F	---	2.0	2.8	V	I_F = 60mA
Reverse Current	I_R	---	---	50	μA	V_R = 5V

Ranks Combination (IF = 20mA)

Rank			
Luminious Intensity			

Notes:

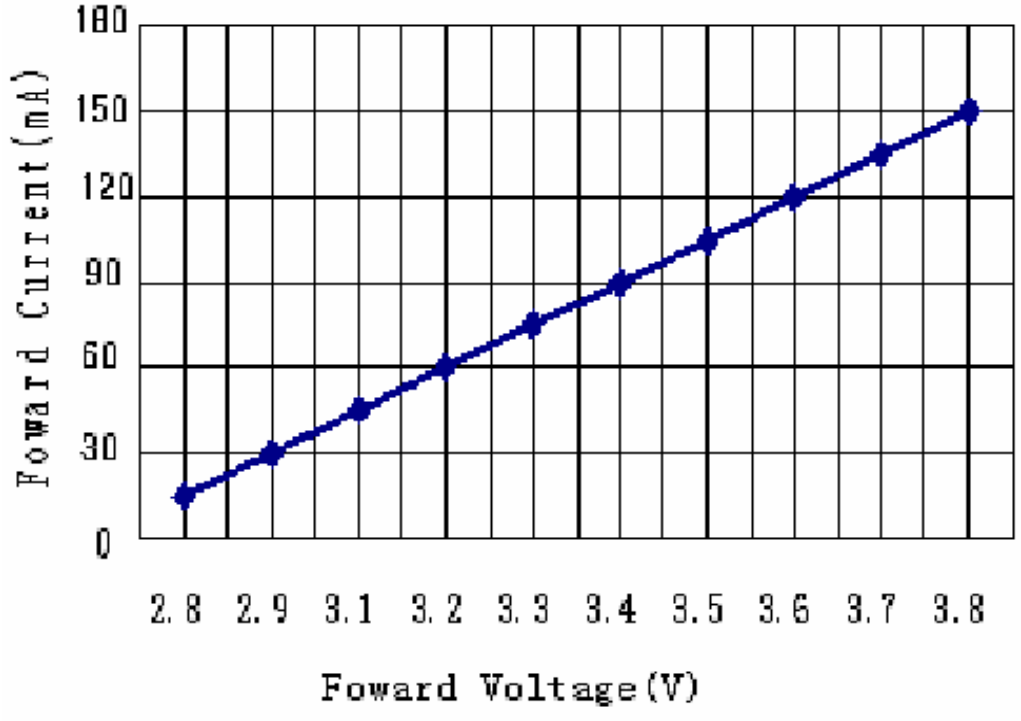
1. Tolerance of measurement of luminous intensity : ±15%
2. Tolerance of measurement of chromatic coordinates : ±0.02
3. Tolerance of measurement of forward voltage : ±0.1V

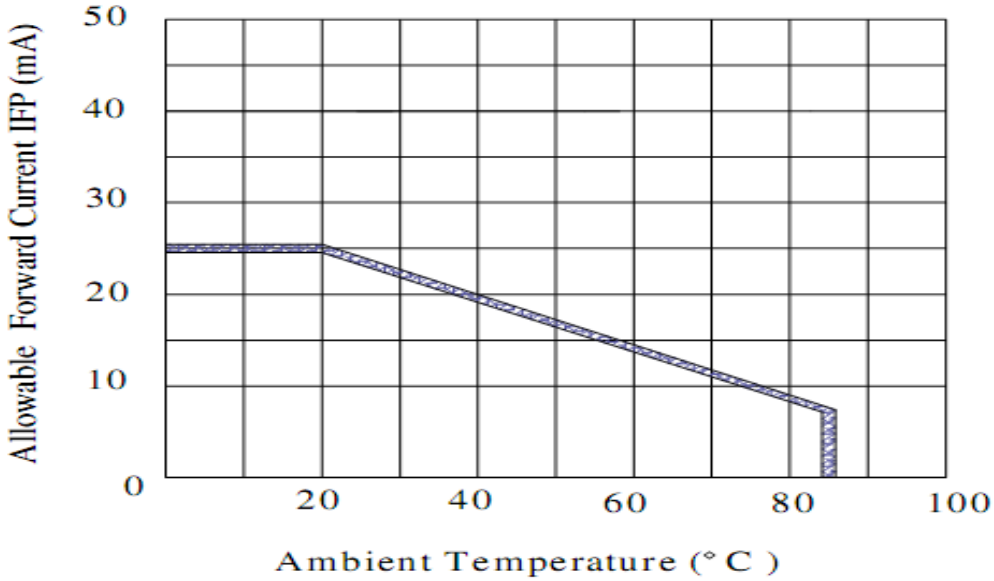
PLCC 6 LED Color Red Three Chip

Part No.: **M11A5003**

Customer:

DRW:	Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009
APPD:	Jason			FINISH	John		Sheet No.	2 from 9

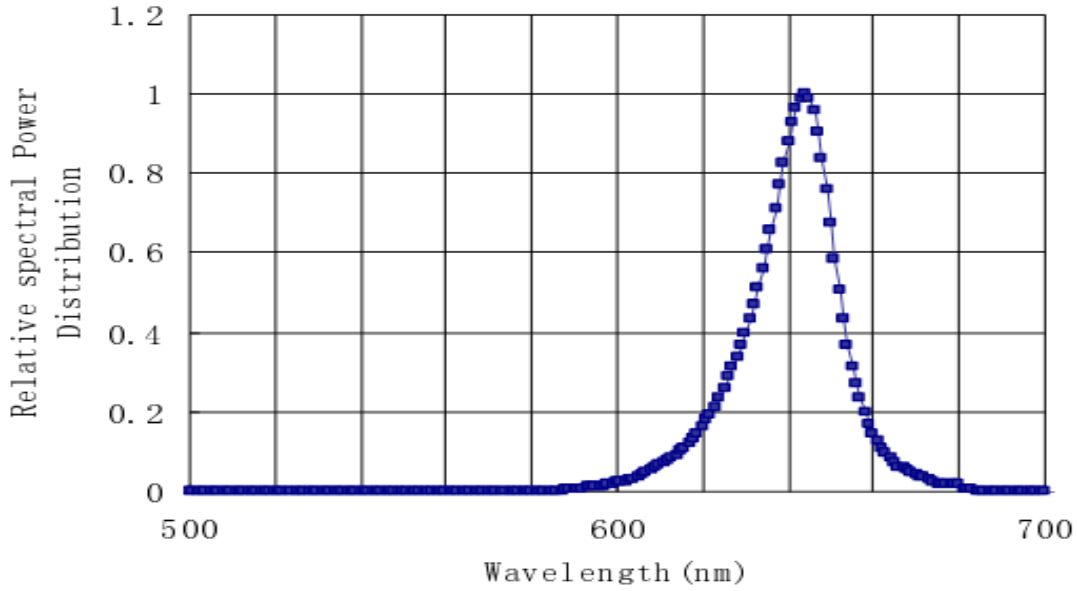


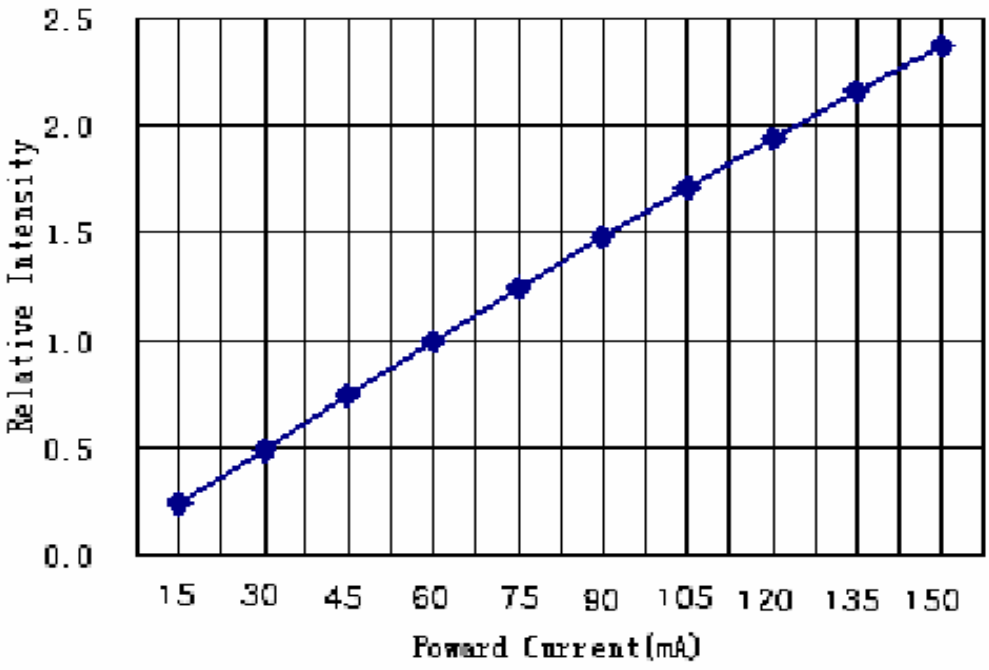


PLCC 6 LED Color Red Three Chip	
Part No.:	**M11A5003**
Customer:	

DRW:	Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009
APPD:	Jason			FINISH	John		Sheet No.	3 from 9

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





PLCC 6 LED Color Red Three Chip	
Part No.:	**M11A5003**
Customer:	

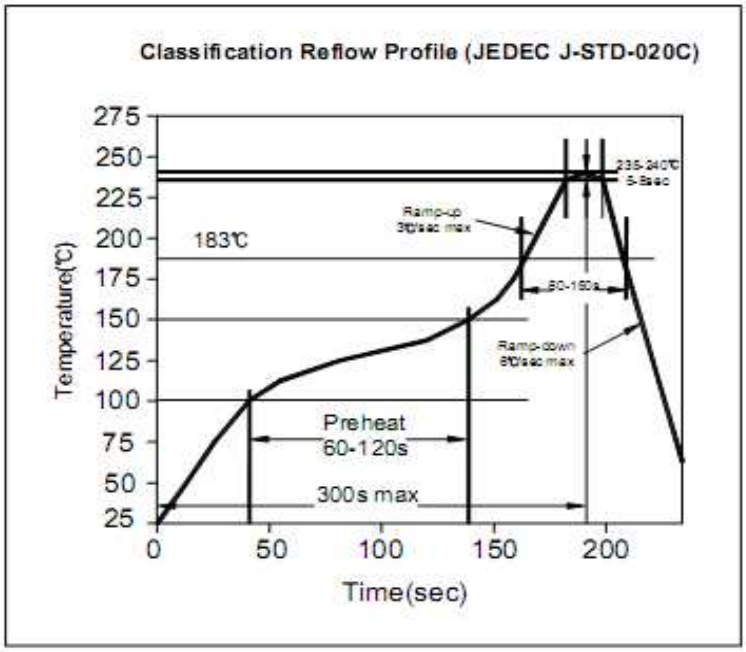
DRW:	Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009
APPD:	Jason			FINISH	John		Sheet No.	4 from 9

RoHS Lead Free

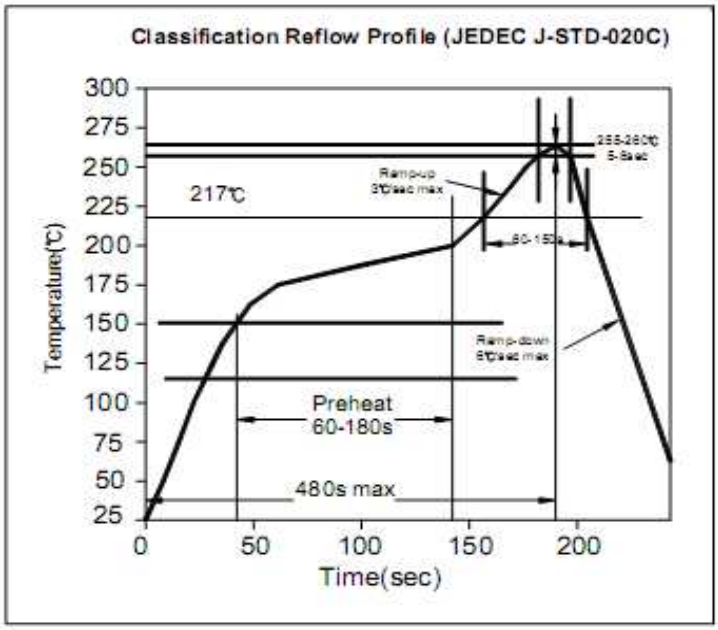
EDCON COMPONENTS
A MEMBER OF EDCON-GROUP

Solder Condition

lead solder



lead free solder



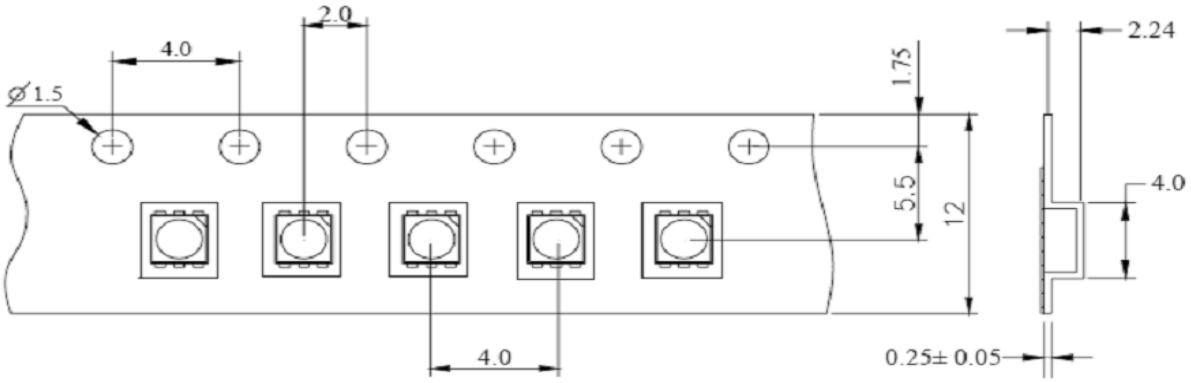
PLCC 6 LED Color Red Three Chip	
Part No.:	**M11A5003**
Customer:	

DRW:	Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009
APPD:	Jason			FINISH	John		Sheet No.	5 from 9

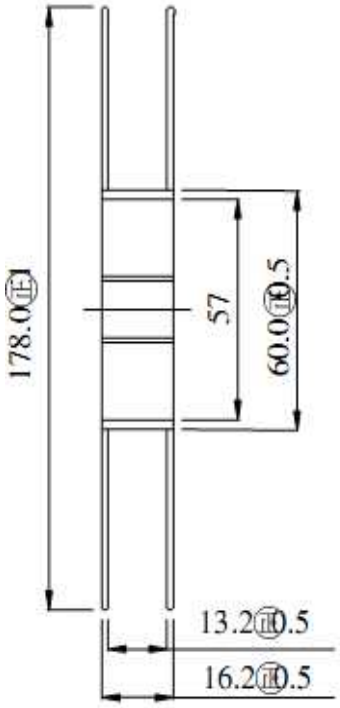
RoHS Lead Free

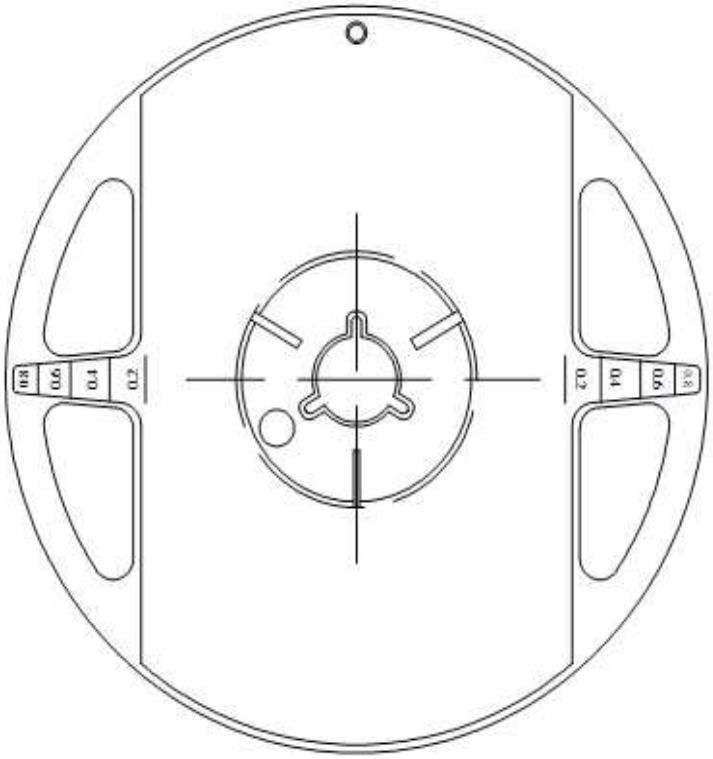
EDCON COMPONENTS
A MEMBER OF EDCON-GROUP

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

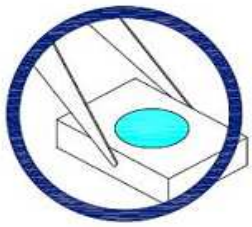
PLCC 6 LED Color Red Three Chip	
Part No.:	**M11A5003**
Customer:	

DRW:	Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009
APPD:	Jason			FINISH	John		Sheet No.	6 from 9

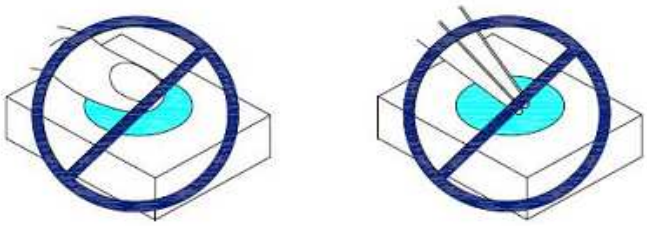
Handling Precautions

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.

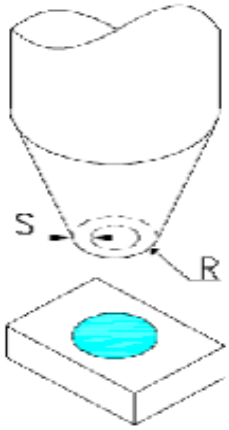
4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.

PLCC 6 LED Color Red Three Chip	
Part No.:	**M11A5003**
Customer:	

DRW:	Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009
APPD:	Jason			FINISH	John		Sheet No.	7 from 9

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.

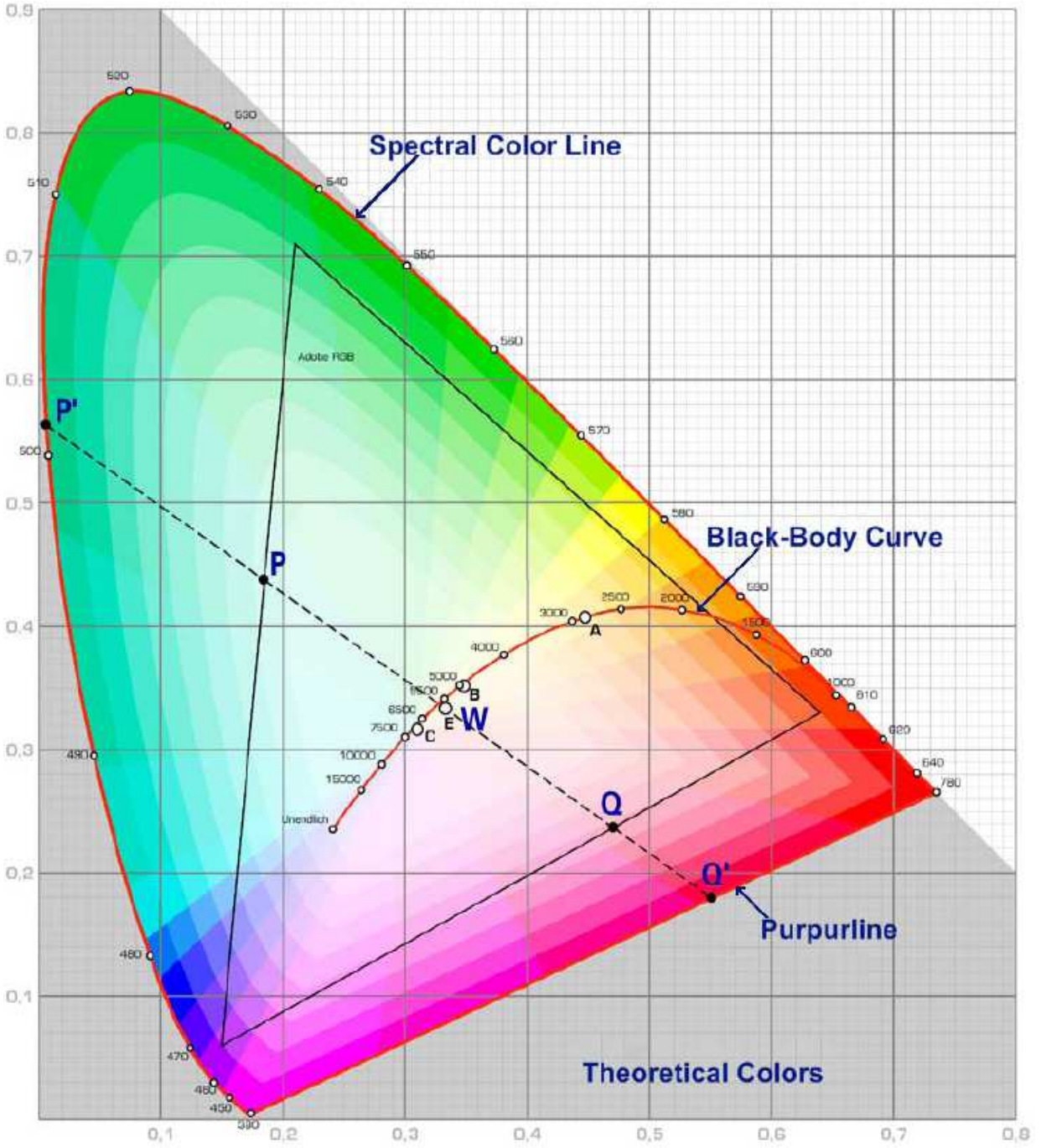


							PLCC 6 LED Color Red Three Chip	
							Part No.:	**M11A5003**
							Customer:	
DRW:	Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009
APPD:	Jason			FINISH	John		Sheet No.	8 from 9

RoHS Lead Free

EDCON COMPONENTS
A MEMBER OF EDCON-GROUP

Color table curve



PLCC 6 LED Color Red Three Chip	
Part No.:	**M11A5003**
Customer:	

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

www.edcon-components.com email: info@edcon-components.com