



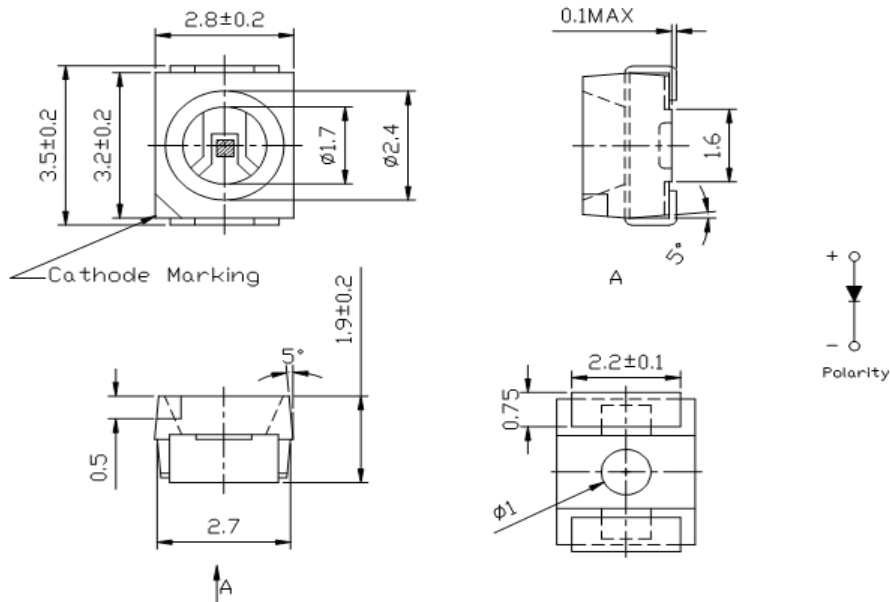
Features

Single Color
 Suitable for all SMT assembly and solder process
 Available on TAPE and REEL
 Package: 2000PCS / Reel

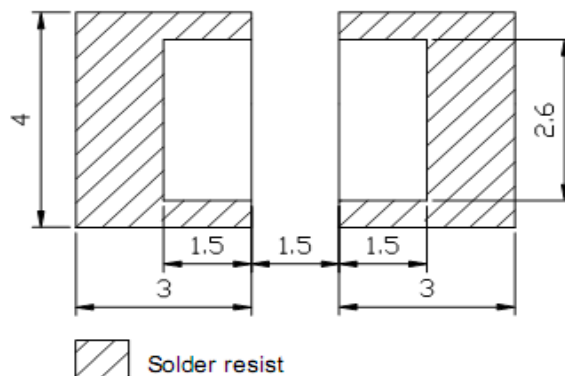
Discription / Application

The Yellow source color devices are made with Gallium Phosphide on Gallium Phosphide Yellow Light Emitting Diode
 It is recommended to use a wrist band or anti-electrostatic glove handling the Led's.
 All devices, equipment and machinery must be electrically grounded

Technical Drawing



Recommended Soldering Pattern



Notes :

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

PLCC2-LED	
Yellow	
Part No.:	M11A1330
Customer:	

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	02.02.2011
APPD:	Ping			FINISH	Hui	Sheet	1 from 9



Electrical / Optical Characteristics at Ta=25°C

Symbol	Parameter	Device	min.	typ.	max.	units	test conditions
	Dominant Wavelength	Yellow	587	590		nm	IF=20mA
VF	Forward Voltage	Yellow	1,6	2		V	IF=20mA
IR	Reverse Current	Yellow		5		µA	VR=5V

Absolute Maximum Ratings at = 25°C

Parameter	White	Unts
Power dissipation	80	mW
DC Forward Current	30	mA
Peak Forward Current (1)	140	mA
Reverse Voltage	5	V
Operating / Storage Temperature	. -40°C to + 85°C	

Selection Guide

Part-No.	Dice	Lens Type	IV (mcd) @ 20mA		Viewing Angle 2Ø 1/2
			Min	Typ.	
M11A1330	Yellow (AlGaInP)	Water Clear	400	600	120

Rank (IF=20mA)	Code		
Luminous Intensity (mcd)	L14	L15	L16
	415~580	580~810	810~1135
Forward Voltage (V)	V3	V4	V5
	1,8~2,0	2,0~2,2	2,2~24
Dominant Wavelength (nm)	Y5	Y6	Y7
	588~590	590~592	592~594

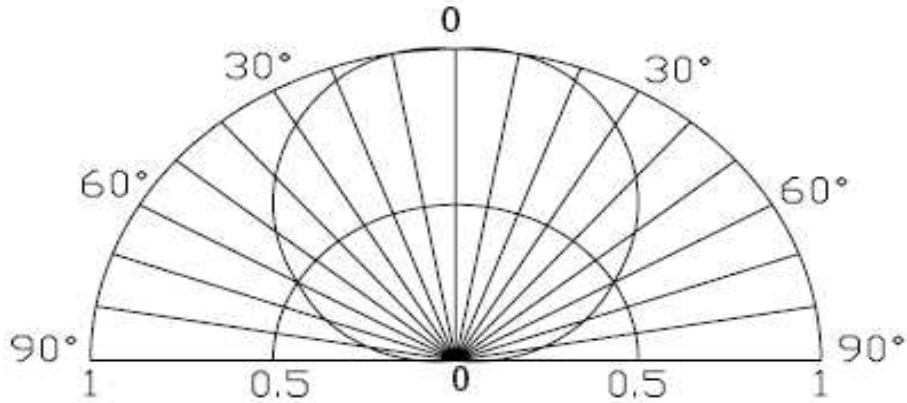
Tolerance of measurement of forward voltage is ± 0,1V
 Tolerance of measurement of luminous intensity or flux is ± 15%
 Tolerance of measurement of dominant wavelength is ± 1nm

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APPD:	Ping			FINISH	Hui	Sheet	2 from 9

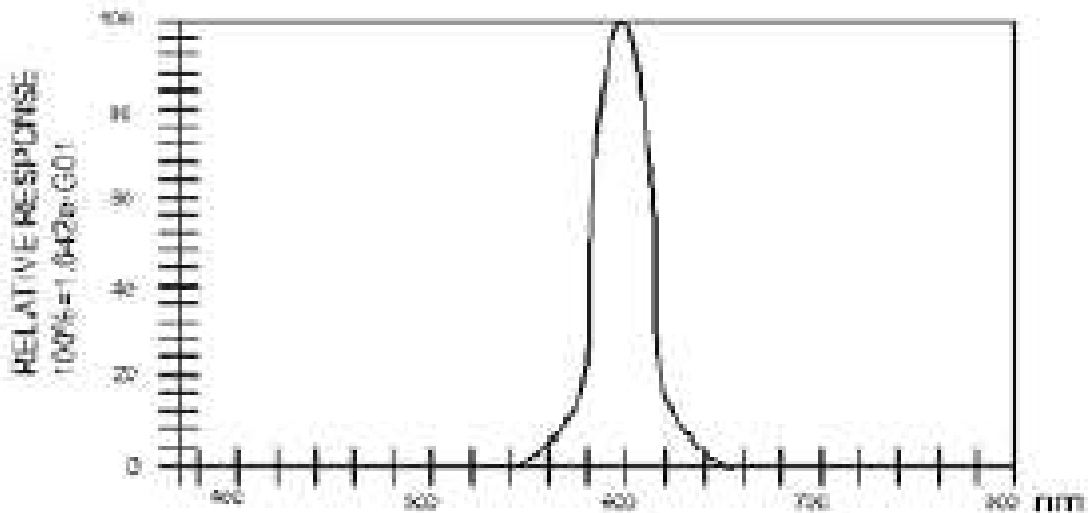


Directive Characteristics



Luminous Spectrum (Ta=25°C)

SPECTRAL RADIANCE

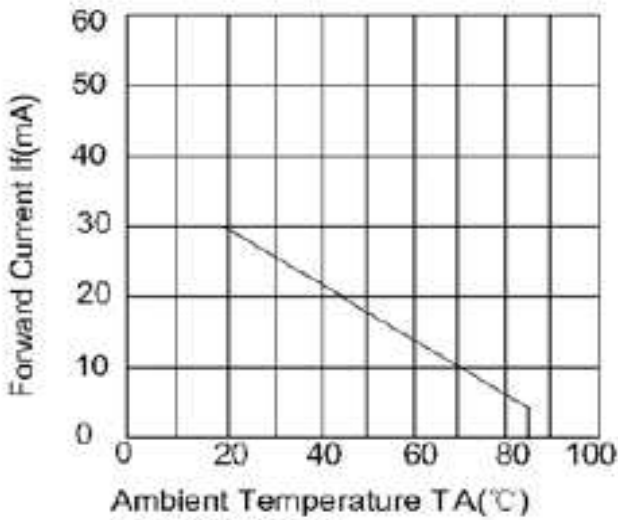


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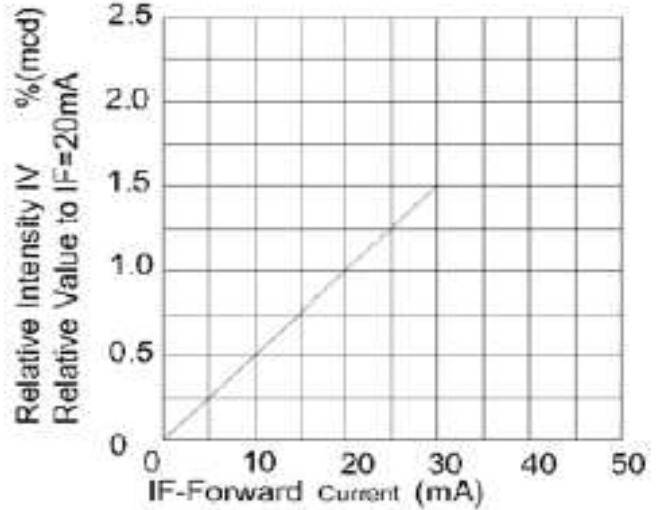
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APPD:	Ping			FINISH	Hui	Sheet	3 from 9



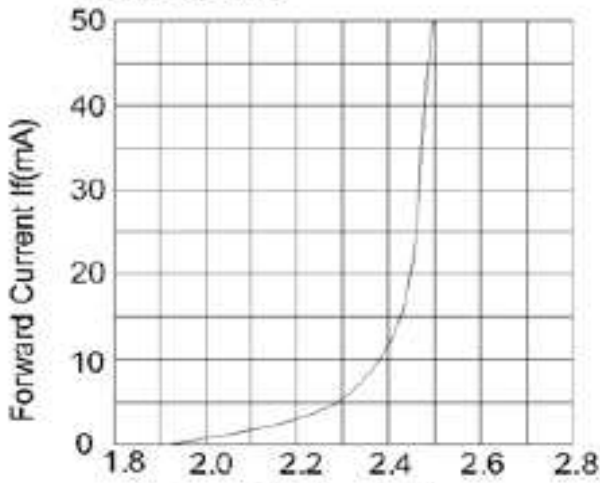
Curve



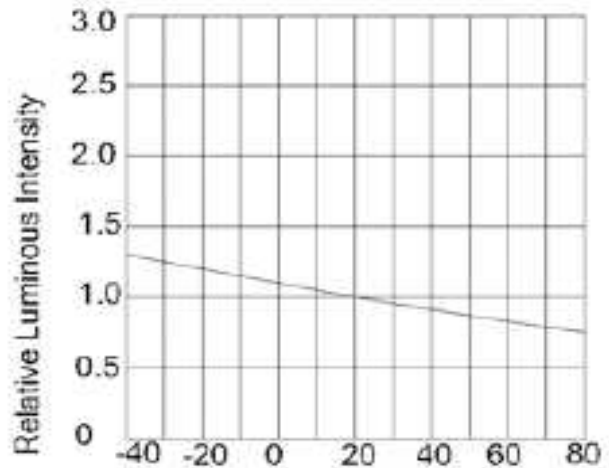
Forward current Derating Curve



Luminous Intensity vs. Forward Current



Forward Current VS. Forward Voltage



Luminous Intensity Ambient Temperature

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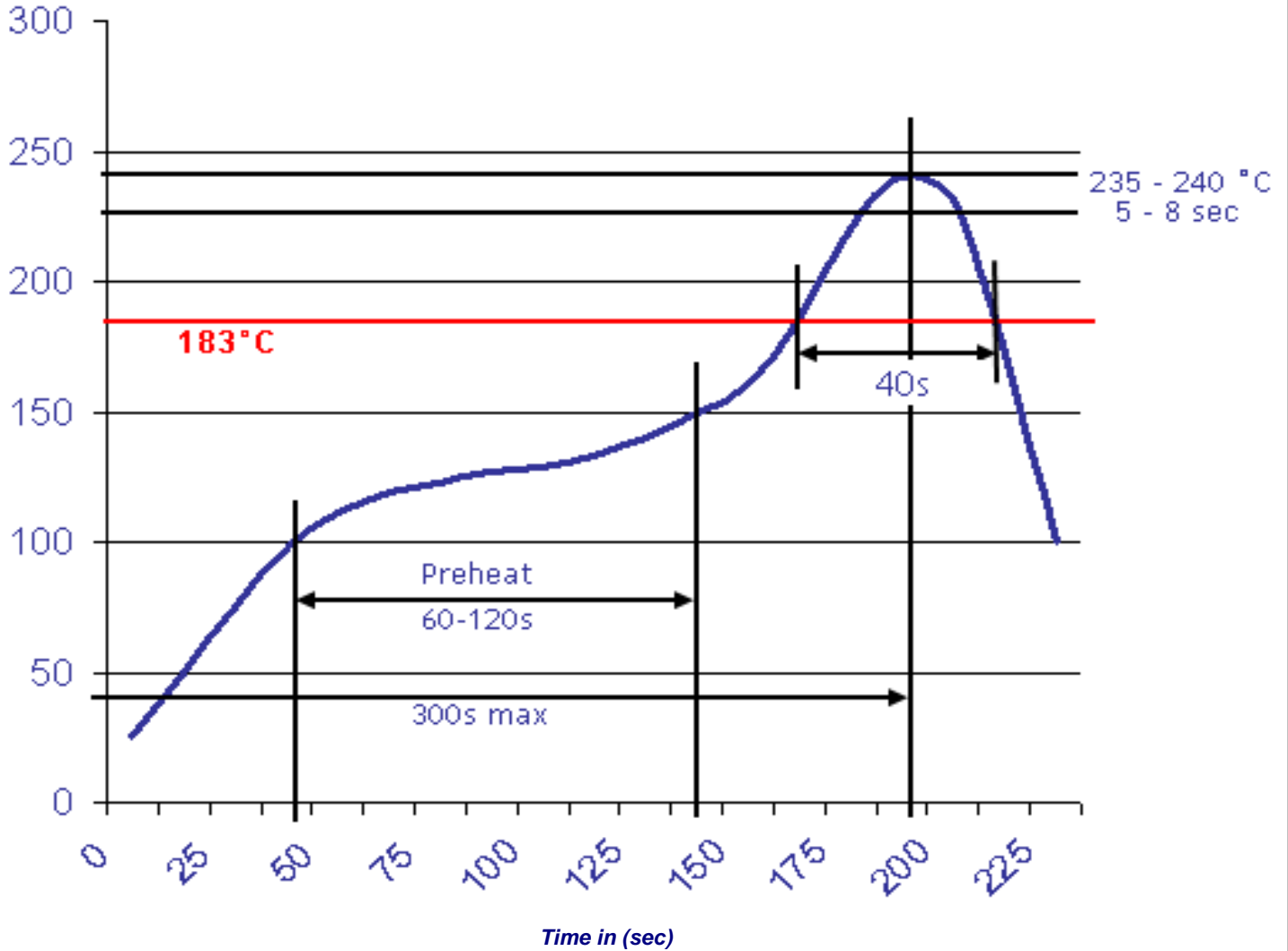
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APPD:	Ping			FINISH	Hui	Sheet	4 from 9



Solder Condition

Lead Free Solder

Classification Reflow Profile (JEDEC J-STD-020C)



PLCC2-LED	
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Part No.:	M11A1330
Customer:	

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	02.02.2011
APPD:	Ping			FINISH	Hui	Sheet	5 from 9



Packing Specifications



Reel Specifications



PLCC2-LED	
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Part No.:	M11A1330
Customer:	

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	02.02.2011
APPD:	Ping			FINISH	Hui	Sheet	6 from 9



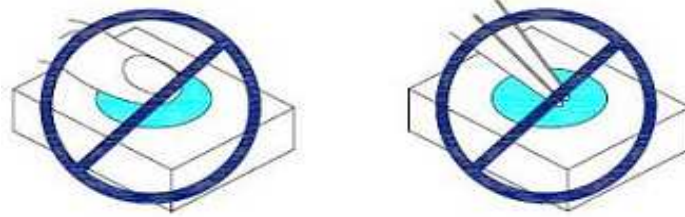
Handling Precautions

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 lead 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.



PLCC2-LED

Yellow

Part No.: **M11A1330**

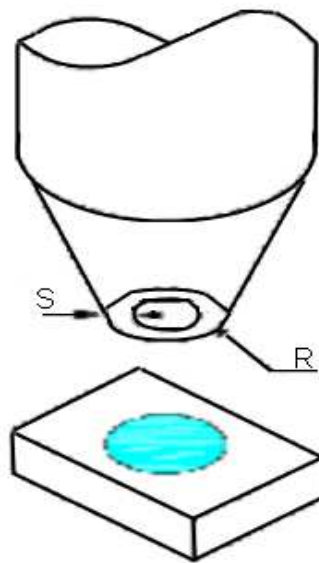
Customer:

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	02.02.2011
APPD:	Ping			FINISH	Hui	Sheet	7 from 9



Handling Precautions

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.
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.

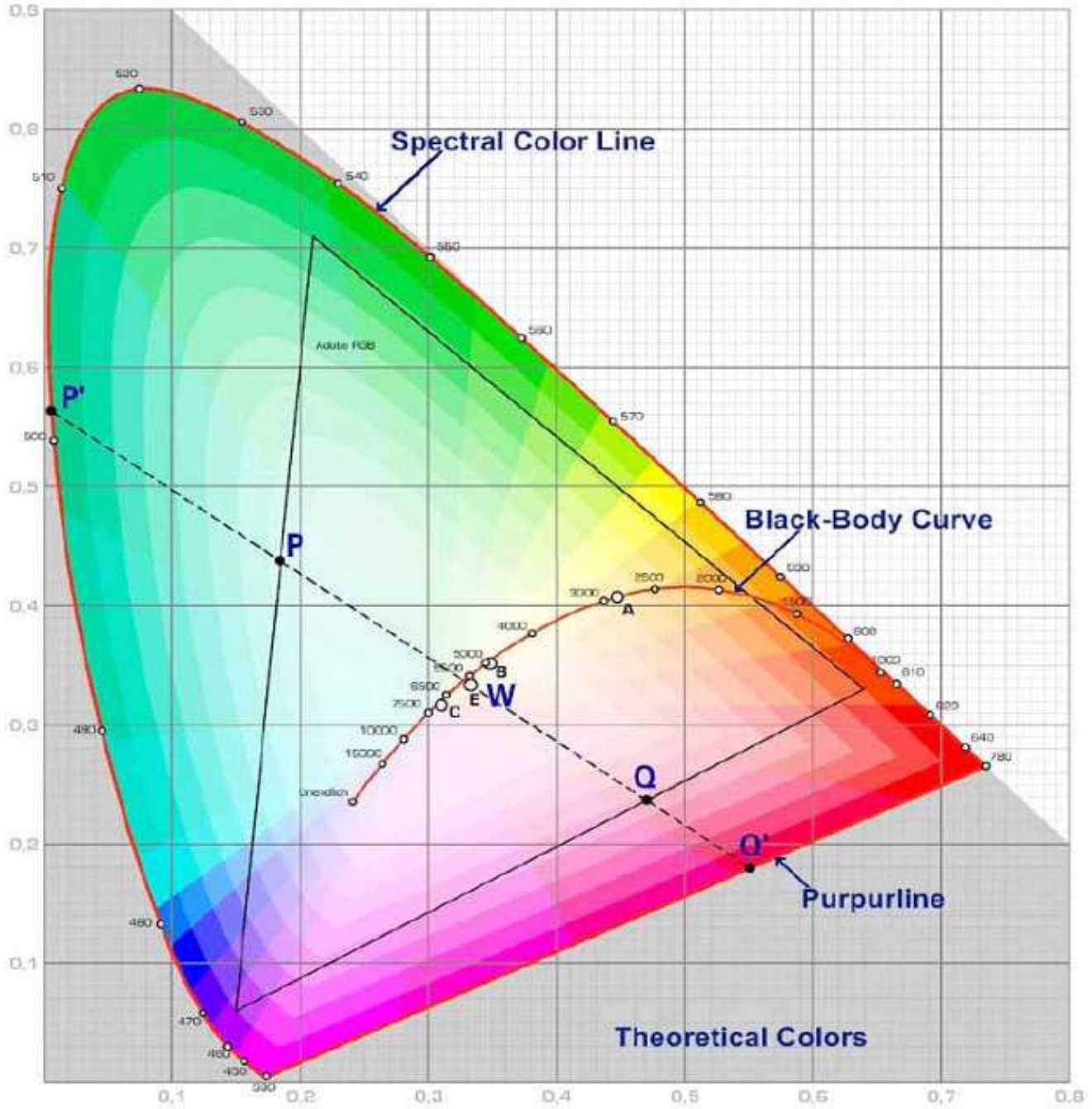


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APPD:	Ping			FINISH	Hui	Sheet	8 from 9



Color table curve



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APPD:	Ping			FINISH	Hui	Sheet	9 from 9

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