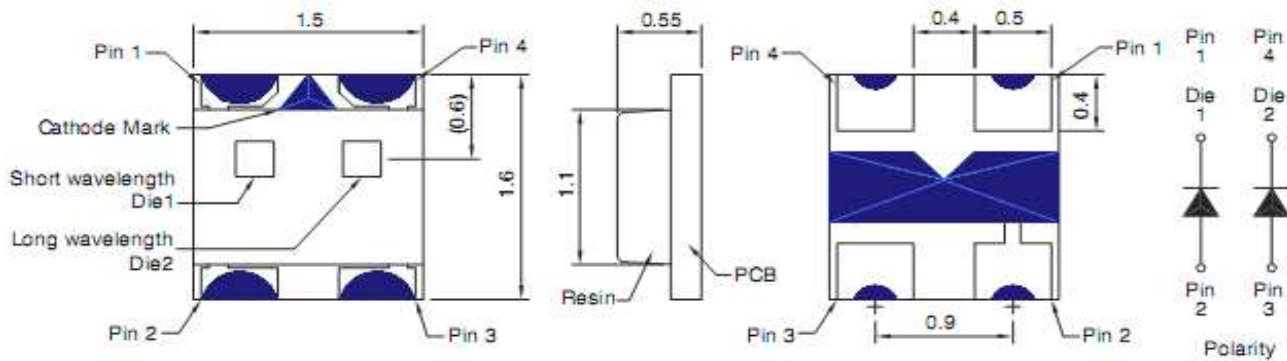




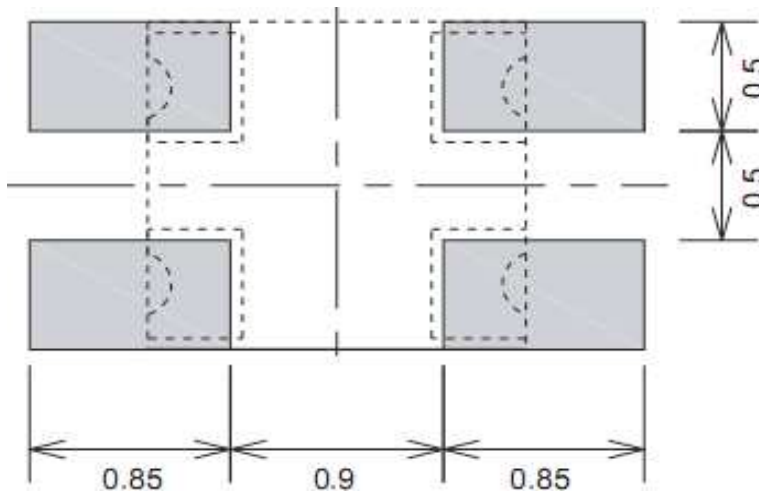
Applications

- Interior automotive lighting
- Optical indicators
- Communication Products
- Backlighting
- Toys

Technical Drawing



Recommended Soldering Pattern



Notes :

All dimensions in mm tolerance is
 $\pm 0.1\text{mm}$ unless otherwise noted.

SMT Top View LED	
Yellow Green	Blue
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Absolute Maximum Ratings

Ta=25°C

Item	Symbol	AllnGaP	InGaP	Unit
Power Dissipation	P _D	72	78	mW
DC Forward Current	I _F	30	20	mA
Pulsed Forward Current	I _{FP} *	100	80	mA
Reverse Voltage	V _R	5		V
Operating Temperature	T _{OP}	-30 to 80		°C
Storage Temperature	T _{ST}	-40 to 85		°C

* 0.1 msec pulse, 10% duty cycle

Electrical / Optical Characteristics

I_F=2mA Ta=25°C

Emitting Color Material	Yellow Green		Blue	
	AllnGaP		InGaP	
Forward Voltage	typ.	1.8	2.7	V _F
	max.	2.1	2.9	V _F
Wavelength typ.	λ _D	573	470	nm
	λ _P	574	468	nm
	Δλ	20	40	nm
Color Temperature	min.	---	---	K
	max.	---	---	K
Luminous Intensity *	min.	7	15	mcd
	typ.	20	2	mcd
Reverse Current	max.	---		μA
Viewing Angle	2Θ1/2	x = 140 y = 120		

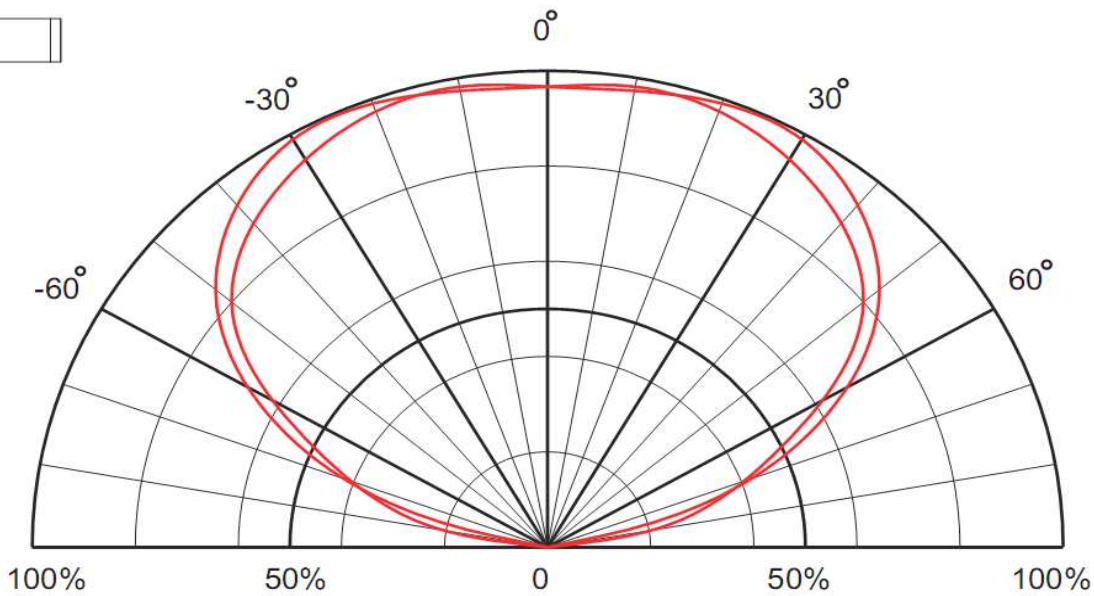
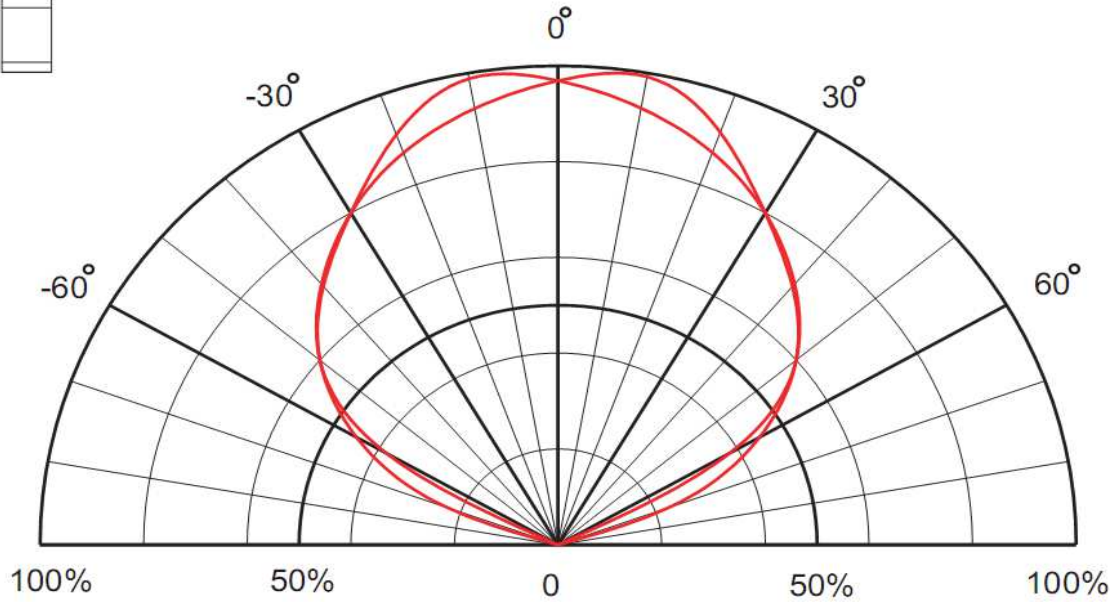
* Per NIST standards

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Directive Characteristics

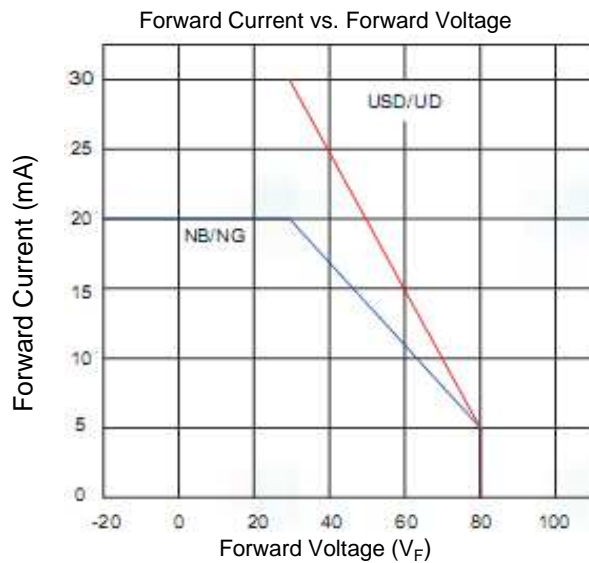
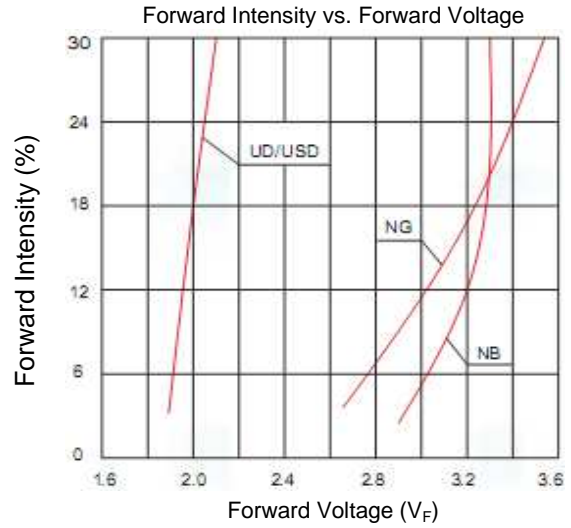
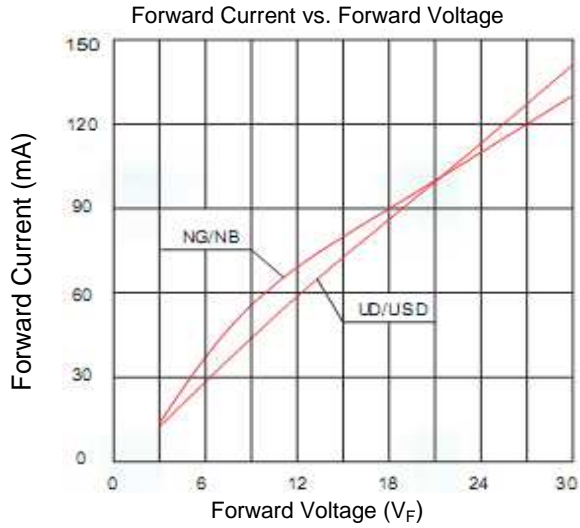


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Curvs



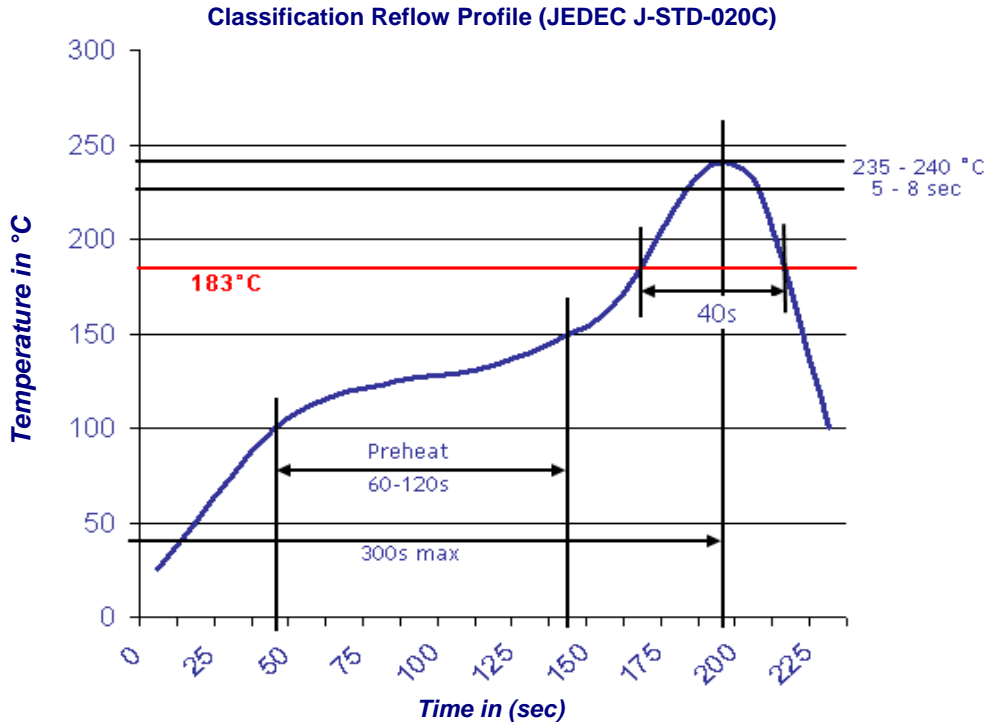
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Solder Condition

Lead Free Solder

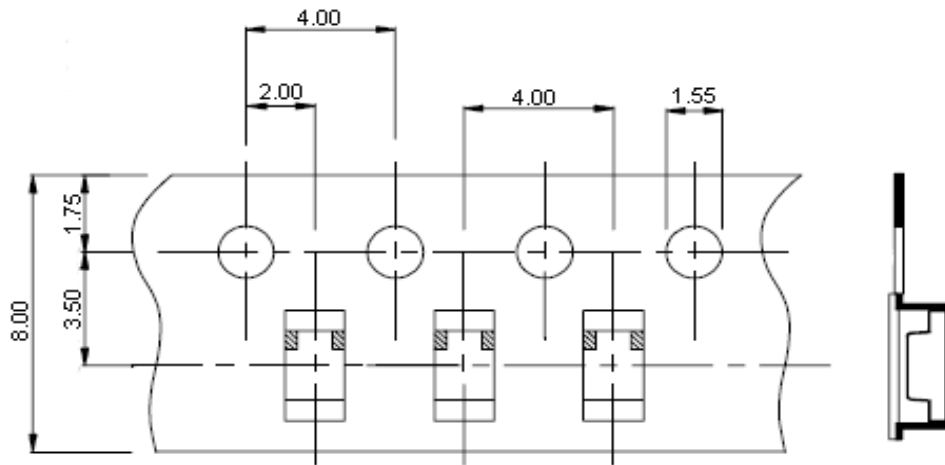


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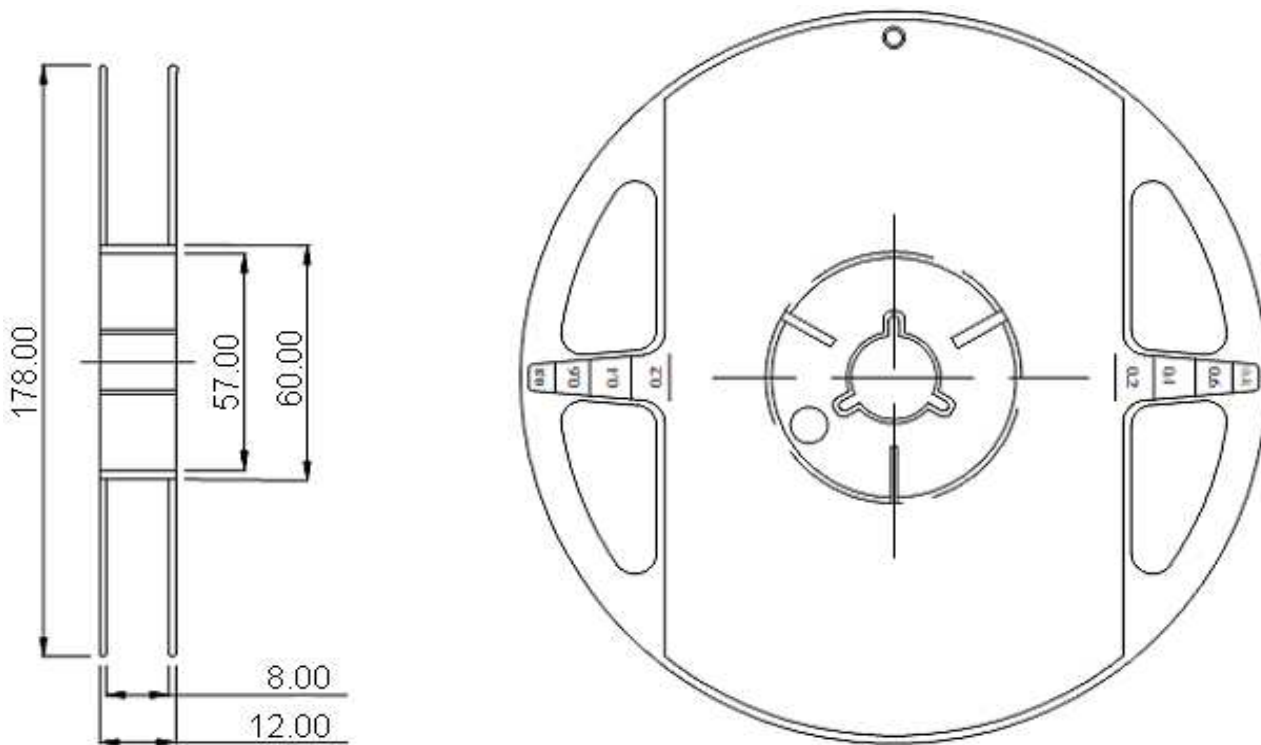
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Packing Specifications



Reel Specifications



SMT Top View LED
Yellow Green **Blue**

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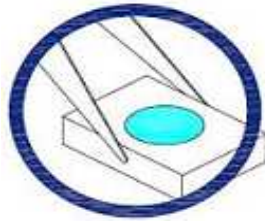
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Handling Precautions

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 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.



SMT Top View LED
Yellow Green **Blue**

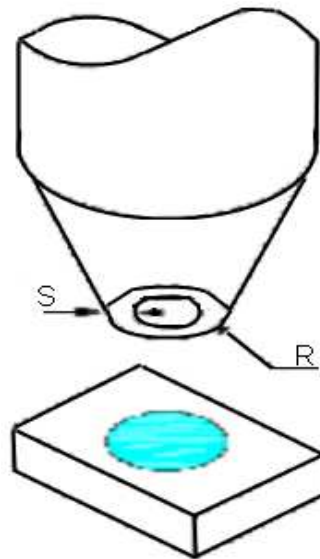
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4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.
5. A pliable material is suggested for the nozzle tip to avoid scratching 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.

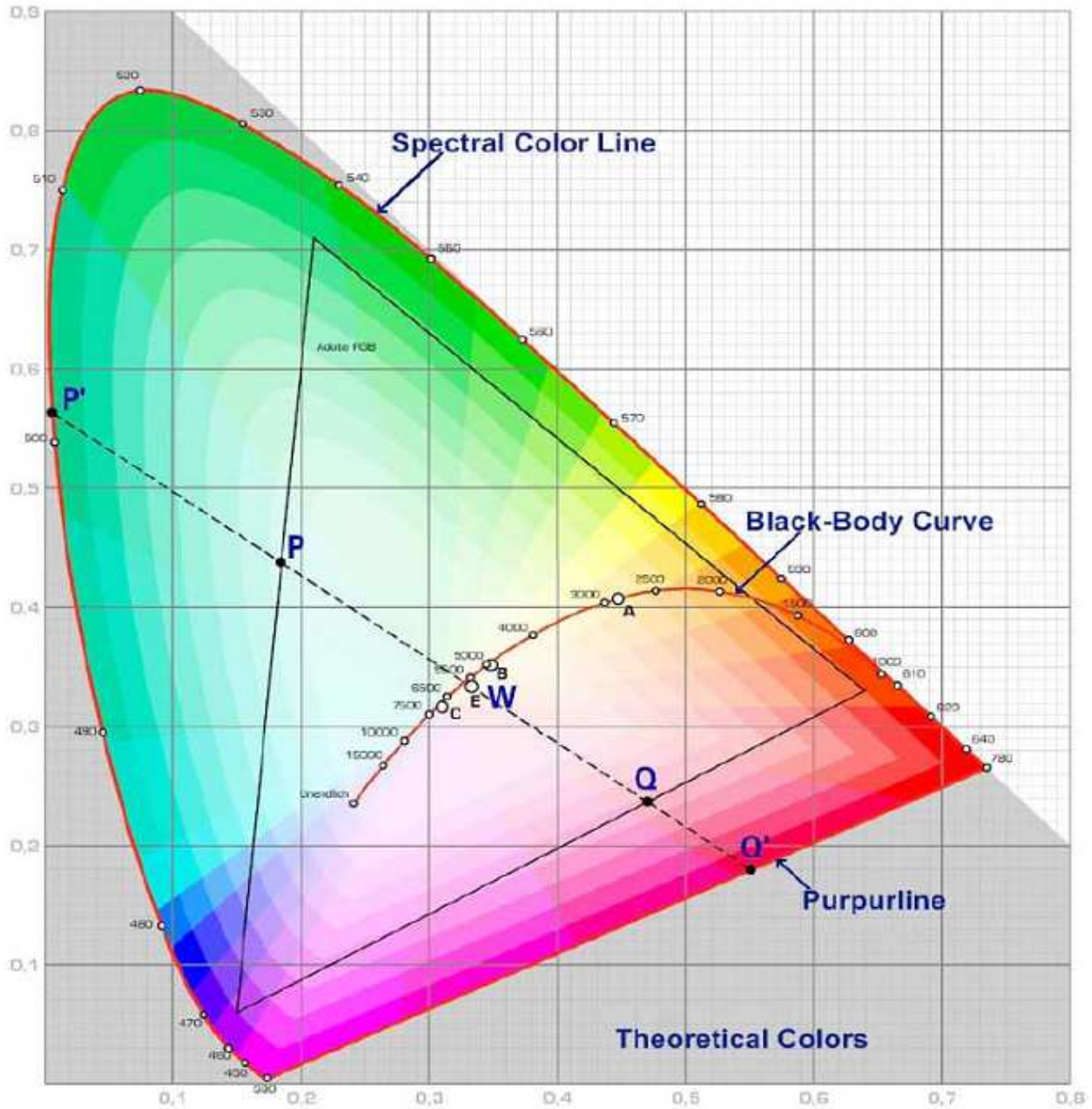


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Color table curve



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