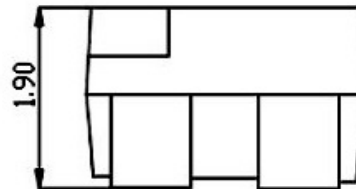
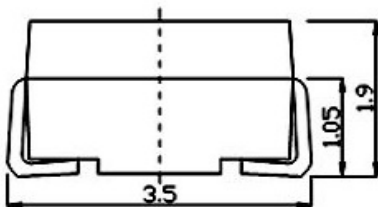
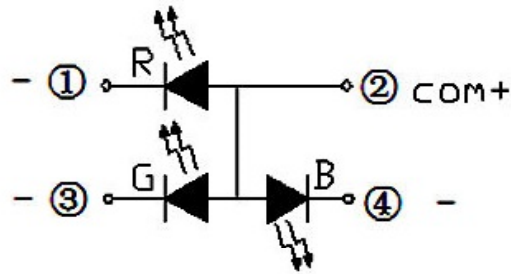
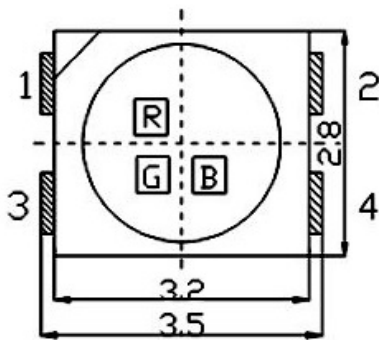


**Applications**

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

**Technical Drawing**

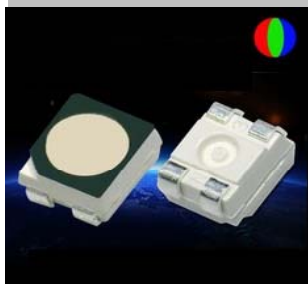


**Notes :**

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

<b>SMT PLCC4 Top View LED</b>		
<b>Blue</b>	<b>Green</b>	<b>Red</b>
Part No.:		<b>M11H5006</b>
Customer:		

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**Absolute Maximum Ratings**

Item	Symbol	Blue / Green	Red	Unit
Power Dissipation	P <sub>D</sub>	180	182	mW
DC Forward Current	I <sub>F</sub>	50	70	mA
Pulsed Forward Current	I <sub>FP</sub> *	120	120	mA
Reverse Voltage	V <sub>R</sub>	5		V
Operating Temperature	T <sub>OP</sub>	-30°C ~ 85°C		°C
Storage Temperature	T <sub>ST</sub>	-40°C ~ 100°C		°C

\* 0.1 msec pulse, 10% duty cycle

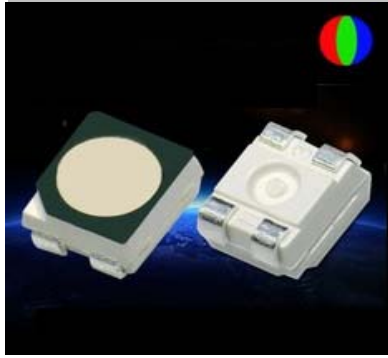
**Electrical / Optical Characteristics**

Ermitting Color	Blue		Green		Red		
Material	---		---		---		
Forward Voltage	typ.	3,0	3,0		2,0	V <sub>F</sub>	
	max.	3,2	3,2		2,2	V <sub>F</sub>	
Wavelength typ.	λD	465 ~ 475		515 ~ 520		620 ~ 625	nm
	λP	---		---		---	nm
	Δλ	---		---		---	nm
Color Temperature	min.	---		---		---	K
	max.	---		---		---	K
Luminous Intensity *	min.	200		600		300	mcd
	typ.	400		1000		500	mcd
Reverse Current	max.	---				---	μA
Viewing Angle	2Θ1/2	120					

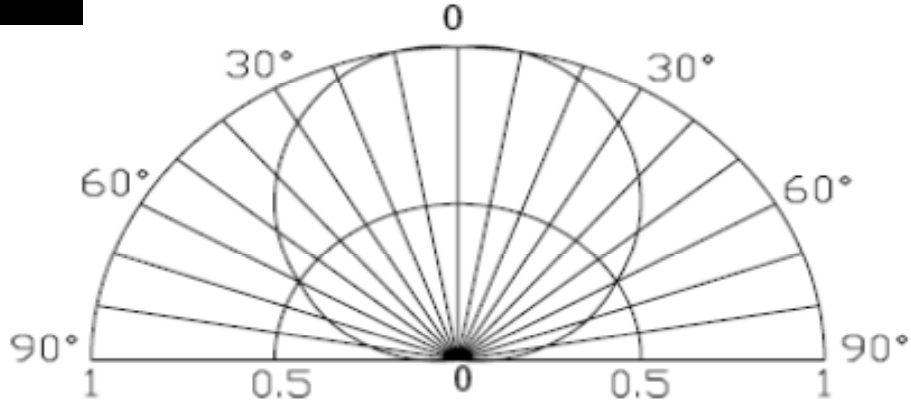
\* Per NIST standards

<b>SMT PLCC4 Top View LED</b>							
<b>Blue</b>		<b>Green</b>			<b>Red</b>		
Part No.:				<b>M11H5006</b>			
Customer:							

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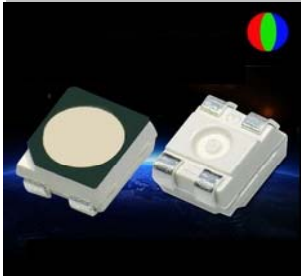


**Directive Characteristics**

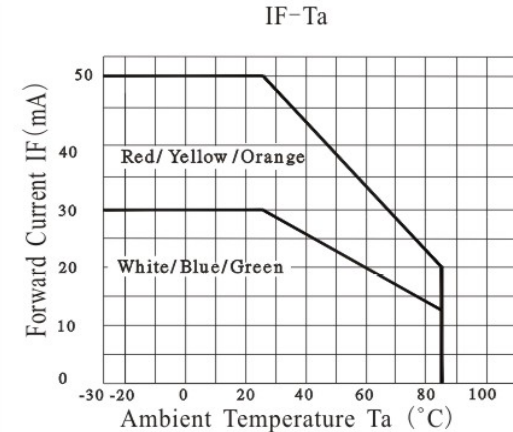
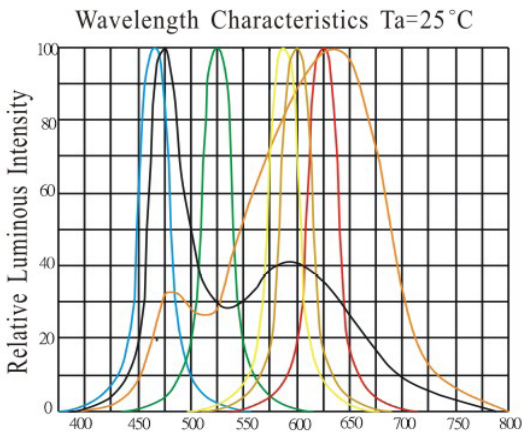
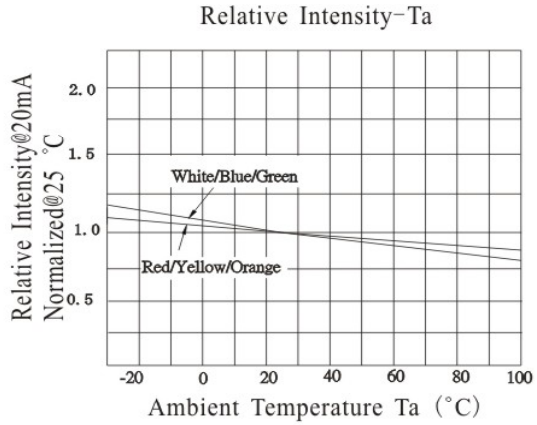
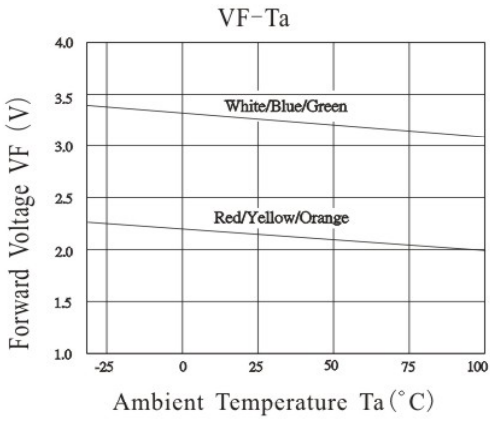
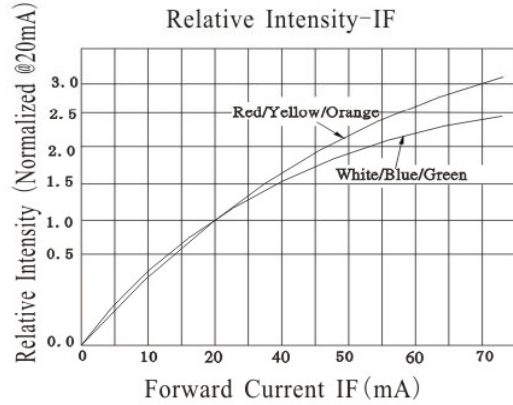
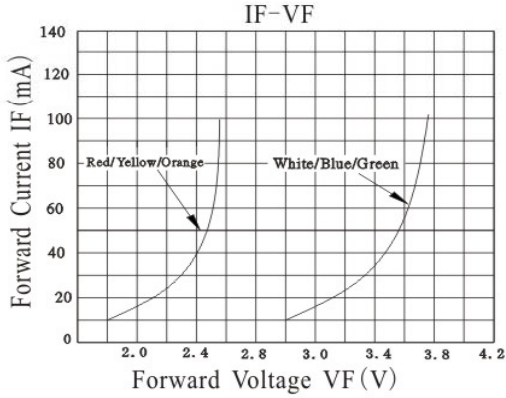


<b>SMT PLCC4 Top View LED</b>			
<b>Blue</b>	<b>Green</b>	<b>Red</b>	
Part No.:		<b>M11H5006</b>	
Customer:			

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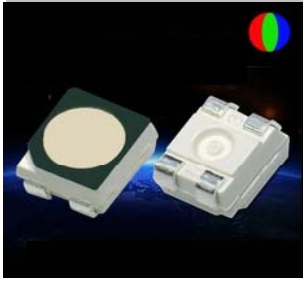


**Typical Characteristics**



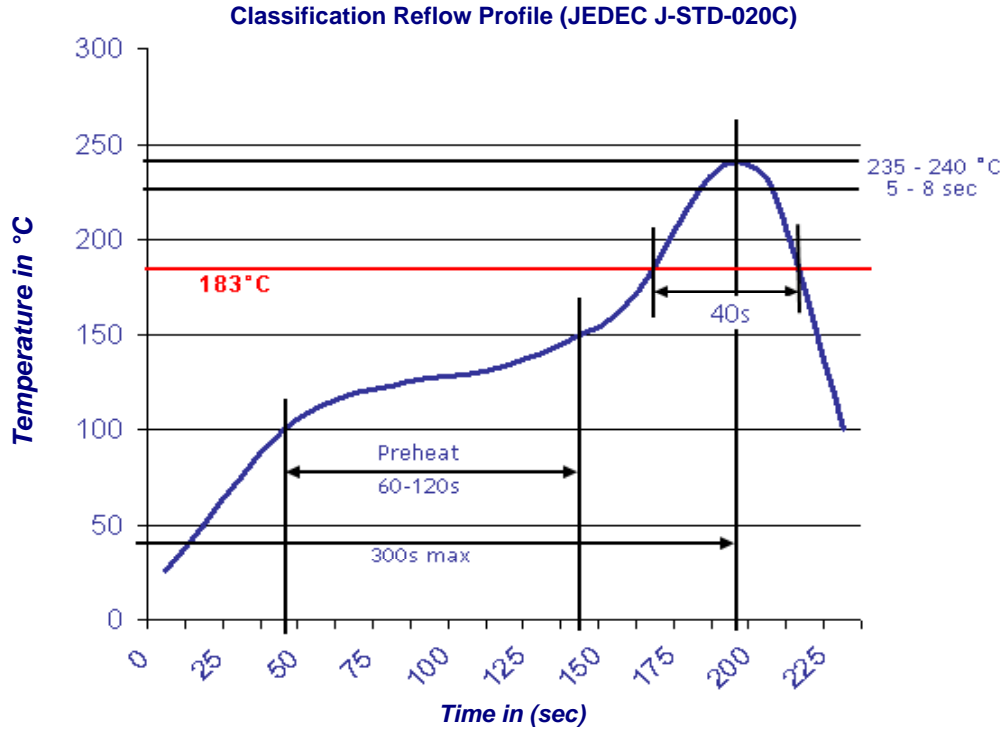
<b>SMT PLCC4 Top View LED</b>			
<b>Blue</b>	<b>Green</b>	<b>Red</b>	
Part No.:		<b>M11H5006</b>	
Customer:			

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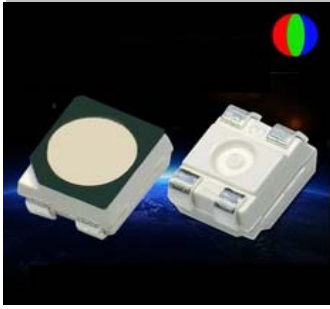


**Solder Condition**

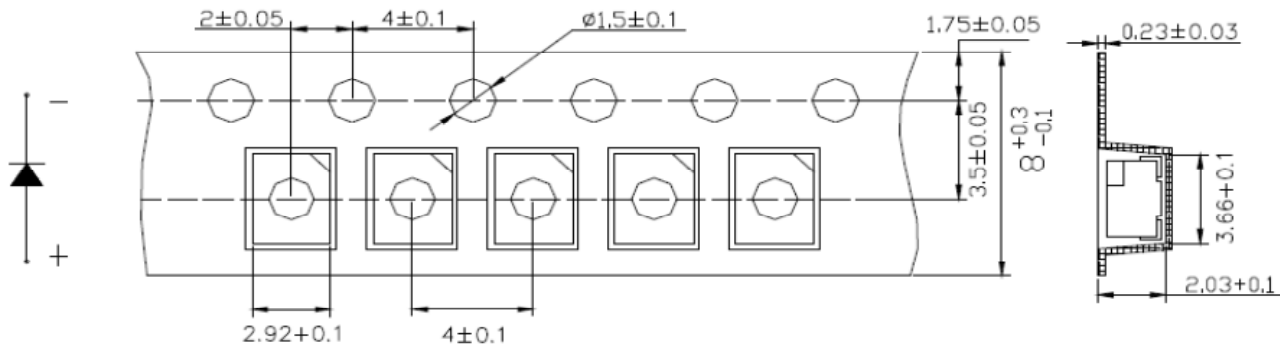
**Lead Free Solder**



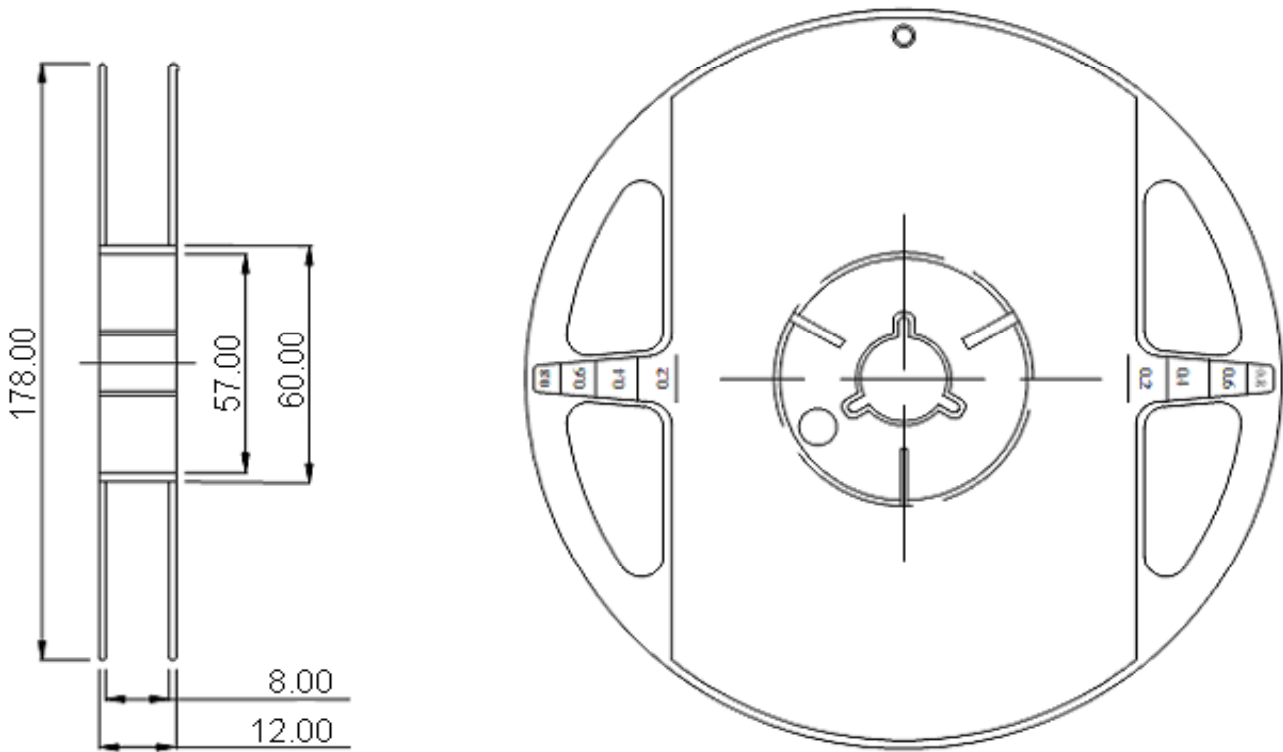
<b>SMT PLCC4 Top View LED</b>							
<b>Blue</b>		<b>Green</b>			<b>Red</b>		
Part No.:				<b>M11H5006</b>			
Customer:							
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**Packing Specifications**

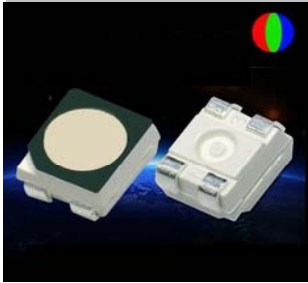


**Reel Specifications**



<b>SMT PLCC4 Top View LED</b>			
<b>Blue</b>	<b>Green</b>	<b>Red</b>	
Part No.:		<b>M11H5006</b>	
Customer:			

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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.

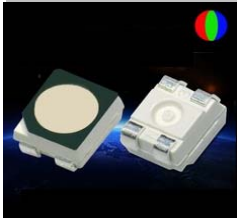


3. Do not stack together assembled PCBs containing exposed LEDs. Outside impact may scratch the silicone lens or damage the internal circuitry.

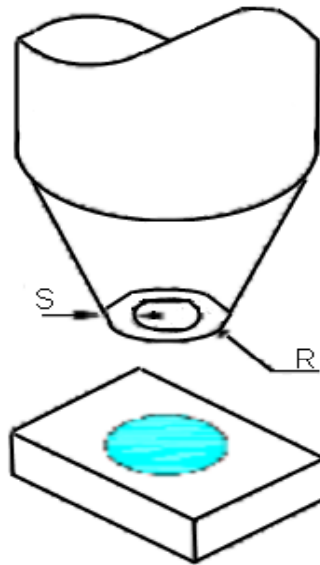


<b>SMT PLCC4 Top View LED</b>		
<b>Blue</b>	<b>Green</b>	<b>Red</b>
Part No.:		<b>M11H5006</b>
Customer:		

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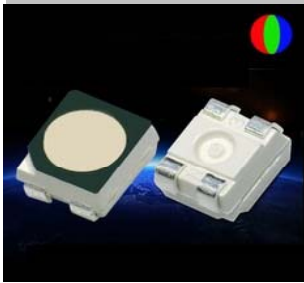
4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.
5. A pliable material is suggested for the nozzle tip to avoid scratching or damaging the LED surface during pickup.
6. The dimensions of the component must be accurately programmed in the pick-and-place machine to insure precise pickup and avoid damage during production.



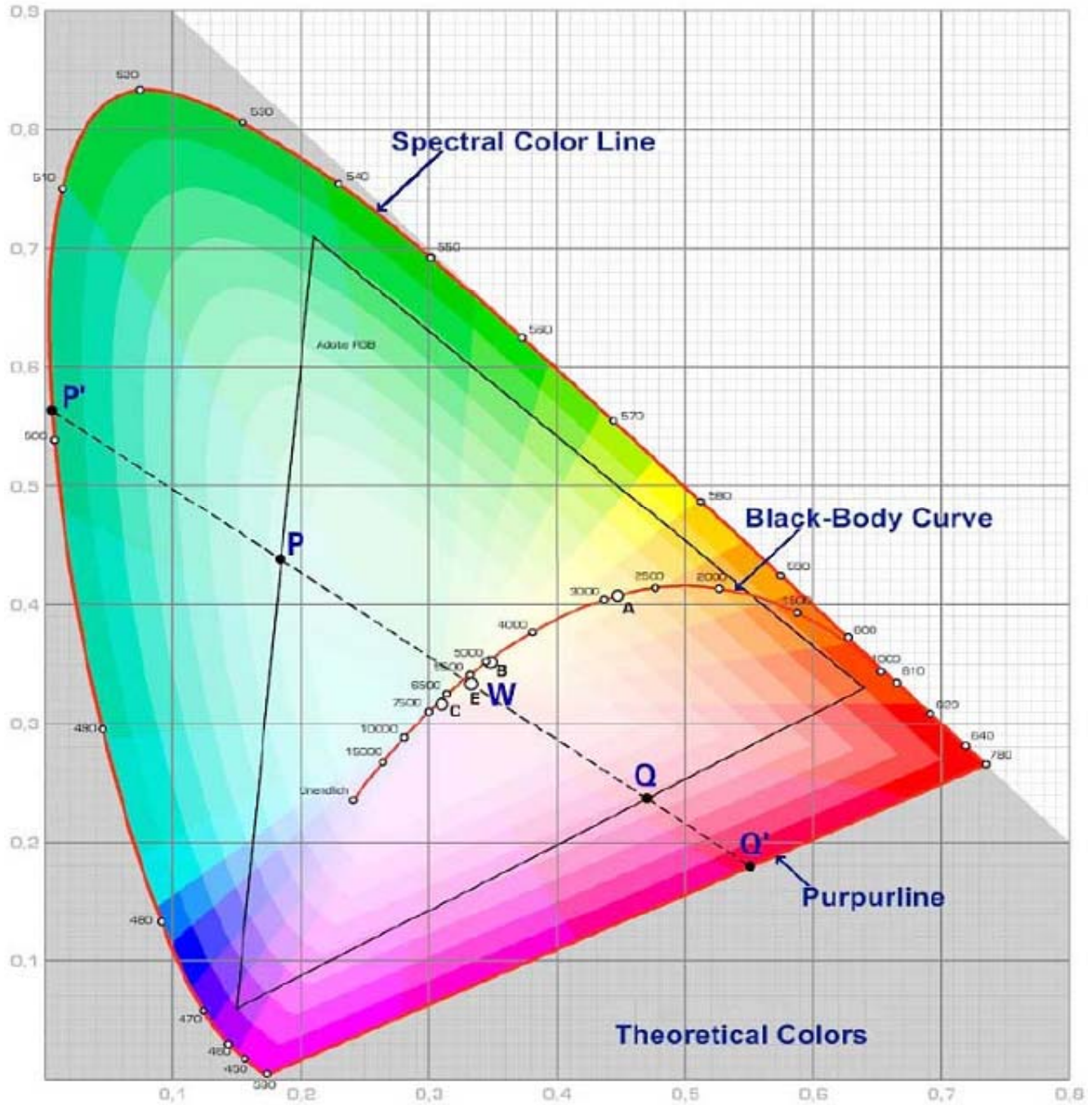
<b>SMT PLCC4 Top View LED</b>			
<b>Blue</b>	<b>Green</b>	<b>Red</b>	
Part No.:		<b>M11H5006</b>	
Customer:			

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**Color table curve**



<b>SMT PLCC4 Top View LED</b>			
<b>Blue</b>	<b>Green</b>	<b>Red</b>	
Part No.:		<b>M11H5006</b>	
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