

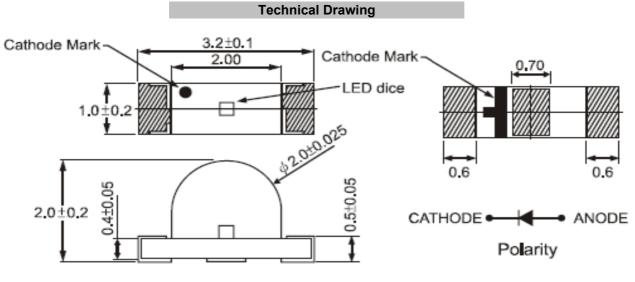


### Applications

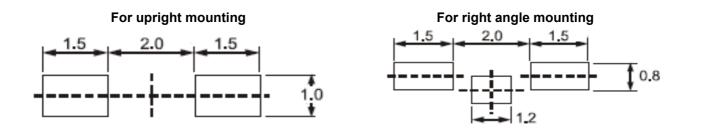
Interior automotive lighting

 Optical indicators
 Communication Products
 Backlighting

 Toys



**Recommended Soldering Pattern** 



Notes	All dimension	s in mm tolera ss otherwise n			SMT Chip LEL Blue	ס	
					Part No.	.: M11	K4016
					Custome	er:	
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	05.12.2009
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# Absolute Maximum Ratings

Ta=25°C

Item	Symbol	AllnGaN	Unit
Power Dissipation	P <sub>D</sub>		mW
DC Forward Current	I <sub>F</sub>	30	mA
Plused Forward Current	I <sub>FP</sub> *	100	mA
Reverse Voltage	V <sub>R</sub>	5	V
Operating Temperature	T <sub>OP</sub>	-25 to 80	°C
Storage Temperature	T <sub>ST</sub>	-30 to 85	°C

\* 0.1 msec pulse, 10% duty cycle

Electrcal / Optical Characteristics

I<sub>F</sub>=20mA Ta=25°C

Ermitting Color		Blue				
Material		AllnGaN				
Forward Voltage	typ.	2.8	V <sub>F</sub>			
Forward voltage	max.	3.2	V <sub>F</sub>			
Wavelength	λD	470 ~ 475	nm			
•	λP	470	nm			
typ.	Δλ		nm			
Color Temperature	min.		K			
Color remperature	max.		K			
Luminous Intensity *	min.	12.3	mcd			
Lumnous intensity	typ.	30	mcd			
Reverse Current	max.		μA			
Viewing Angle	2Θ1/2	100				

\* Per NIST standards

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					Part No.	: M11	K4016		
					Custome	r:			
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						SMT Chip LED Blue	)
					Part No.	: M11P	<b>&lt;4016</b>
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						SMT Chip LED Blue	)
					Part No.	: M11k	(4016
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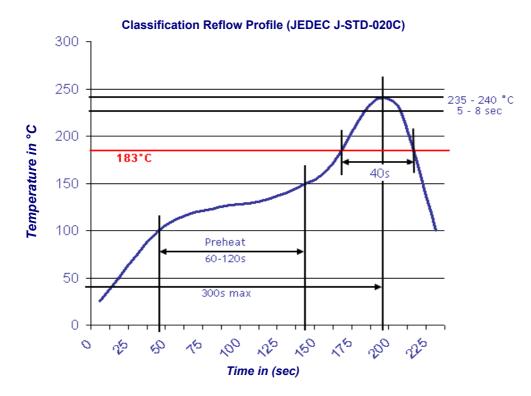
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### **Solder Condition**

## Lead Free Solder



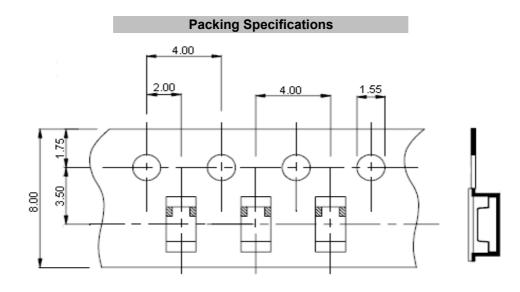
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				Part No.: <b>M11K4016</b>		
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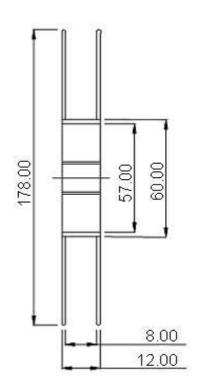
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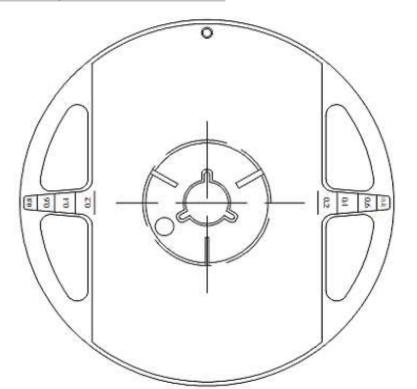






**Reel Specifications** 





					SMT Chip LED Blue		
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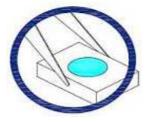




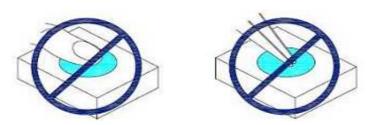
## Handling Precautions

Compare to epoxy encapsulant that is hard and brittle, silicone is softer and flexible. Although ist 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 th 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 surfance. 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.



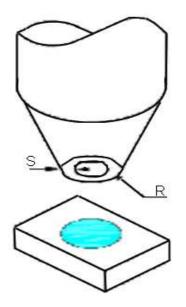
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					Part No.: <b>M11K4016</b>		
					Customer:		
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- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle 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.



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		Part No.: <b>M11K4016</b>		
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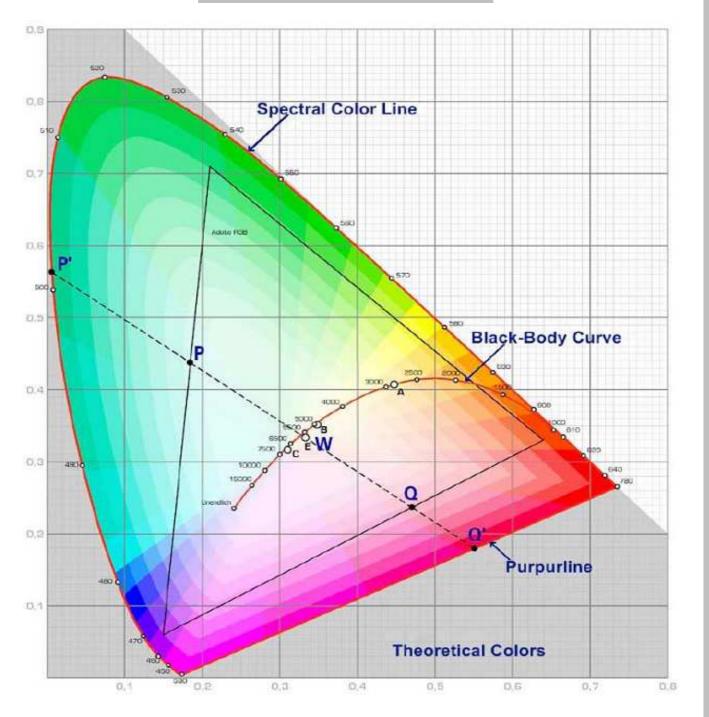
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Color table curve



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