

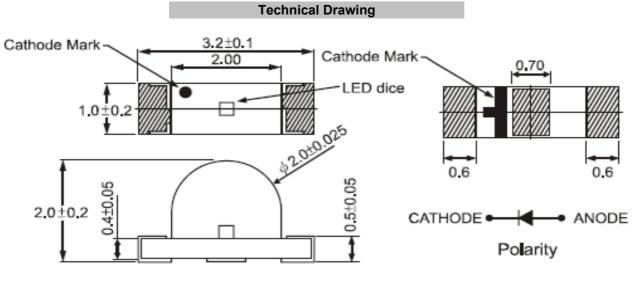


### Applications

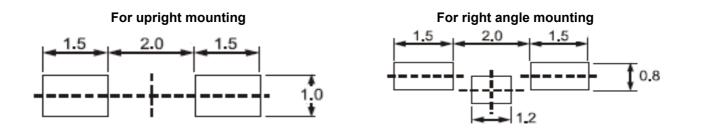
Interior automotive lighting

 Optical indicators
 Communication Products
 Backlighting

 Toys



**Recommended Soldering Pattern** 



Part No.: <b>M11K4003</b>	<i>Notes :</i> All dimensions in mm tolerance is ± 0.1mm unless otherwise noted.							
Customer:								
DRW: Dong CHKD Chang MATL: Chui DATE 05.12.2	DRW:							
APPD: Ping FINISH Hui Sheet 1 from	APPD:							

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### Absolute Maximum Ratings

Ta=25°C

Item	Symbol	AlGaInP	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		Orange Red					
Material		AlGaInP					
Forward Voltage	typ.	2.0	V <sub>F</sub>				
Forward voltage	max.	2.6	V <sub>F</sub>				
Wayolongth	λD	615	nm				
Wavelength	λP	620	nm				
typ.	Δλ		nm				
Color Temperature	min.		K				
Color remperature	max.		K				
Luminous Intensity *	min.	42	mcd				
Lummous intensity	typ.	70	mcd				
Reverse Current	max.		μA				
Viewing Angle	201/2	100					

\* Per NIST standards

						SMT Chip LEI	כ כ				
	Orange Red										
Part No.: <b>M11K4003</b>											
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# SMT Chip LED Orange Red

				Part No.	.: M11	K4003			
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## SMT Chip LED Orange Red

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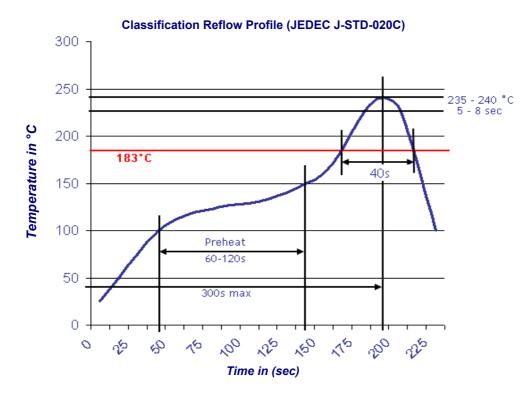
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#### **Solder Condition**

### Lead Free Solder



					SMT Chip LED Orange Red				
Part No.: <b>M11K4003</b>									
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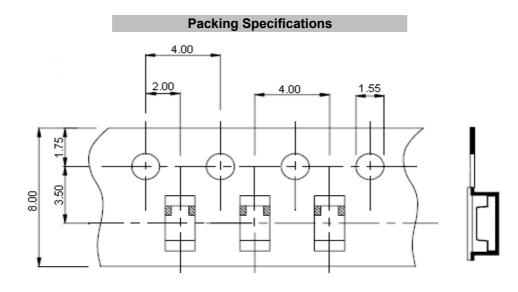
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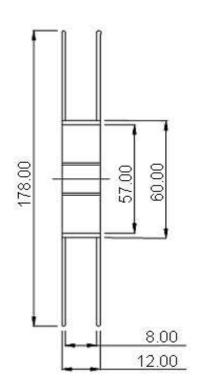
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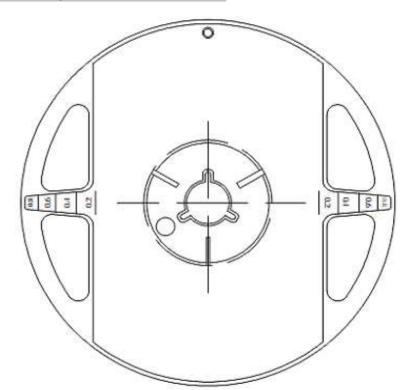






**Reel Specifications** 





Part No.:     M11K4003       Customer:     Customer:							SMT Chip LEL Orange Red	)	
DRW: Dong CHKD Chang MATL: Chui DATE 05.12.2009						Part No.: <b>M11K4003</b>			
					Customer:				
	DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	05.12.2009	
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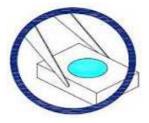




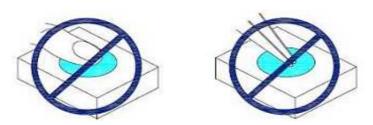
### Handling Precautions

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.

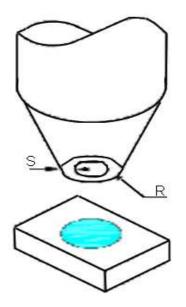


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- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.
- 5. A pliable material is suggested for the nozzle tip to avoid scratching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



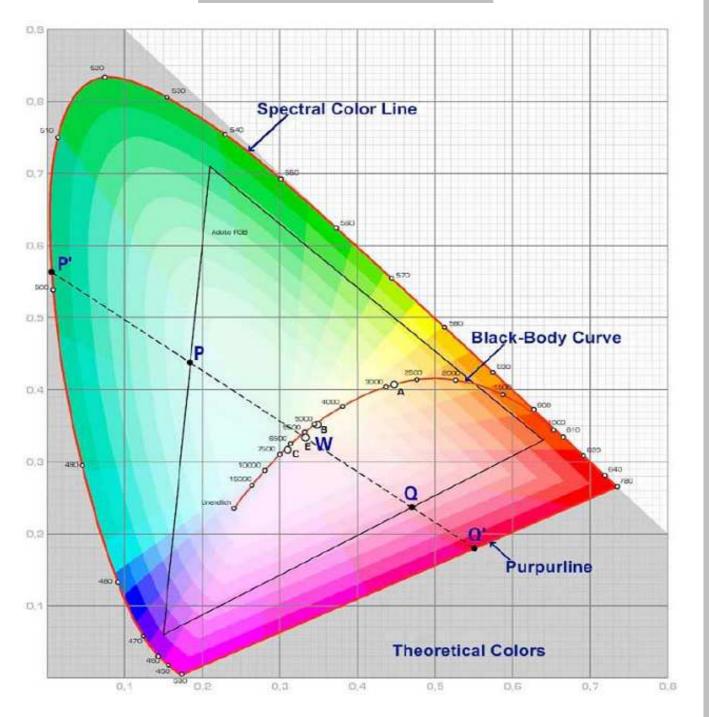
SMT Chip LED	
Orange Red	

					Part No	.: M11k	(4003			
					Custome	er:				
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Color table curve



						SMT Chip LED Orange Red		
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