

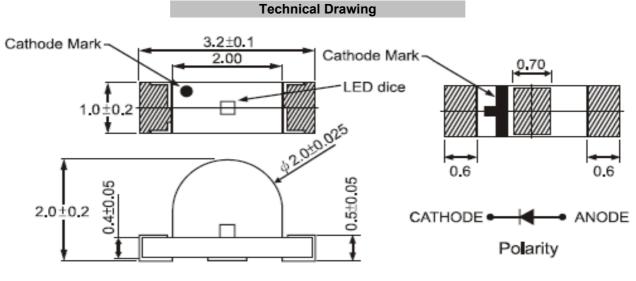


### Applications

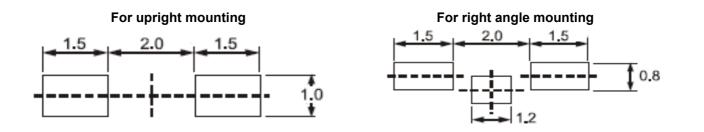
Interior automotive lighting

 Optical indicators
 Communication Products
 Backlighting

 Toys



**Recommended Soldering Pattern** 



<i>Notes :</i> All dimensions in mm tolerance is ± 0.1mm unless otherwise noted.						SMT Chip LED Orange Red	
				Part No.	.: M11k	<b>&lt;4004</b>	
		Customer:					
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	05.12.2009
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## Absolute Maximum Ratings

Ta=25°C

Item	Symbol	AlGaInP	Unit
Power Dissipation	PD		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	AlGalnP					
Forward Voltage	typ.	2.1	V <sub>F</sub>			
r orward voltage	max.	2.6	V <sub>F</sub>			
Wavelength	λD	625	nm			
Ŭ	λP	630	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	2Θ1/2	100				

\* Per NIST standards

					_		
						SMT Chip LED Orange Red	)
Part No.: <b>M11K4004</b>						<b>\4004</b>	
					Custome	er:	
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# SMT Chip LED Orange Red

						.: M11	K4004	
	Customer:							
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## SMT Chip LED Orange Red

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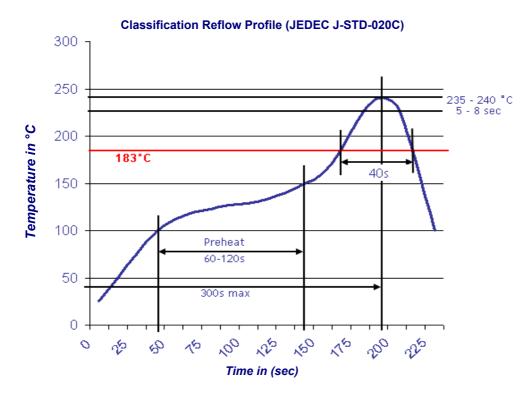
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### **Solder Condition**

## Lead Free Solder



			SMT Chip LED Orange Red				
			Part No.: <b>M11K4004</b>				
			Custome	r:			
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Dong

Ping

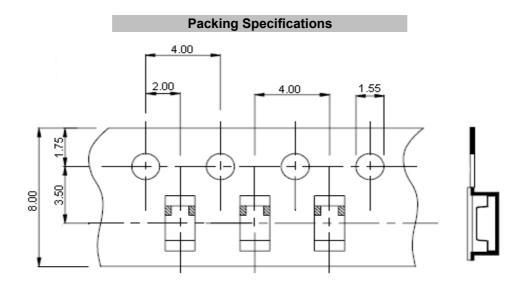
DRW:

APPD:

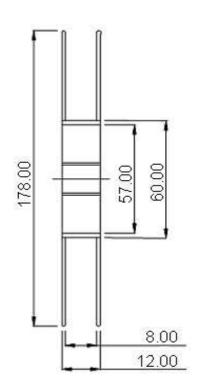
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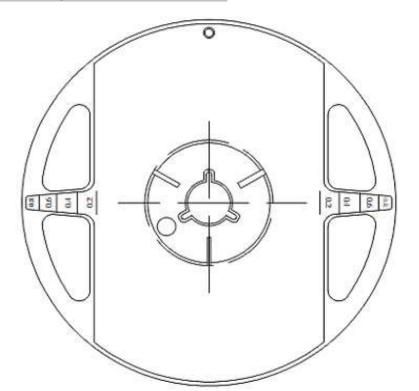






**Reel Specifications** 





					SMT Chip LED Orange Red		
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					Customer:		
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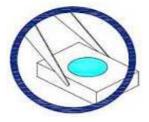




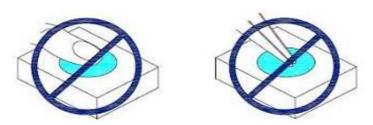
### Handling Precautions

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.

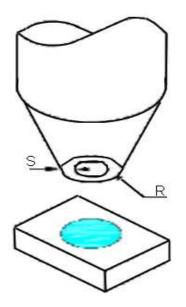


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- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.
- 5. A pliable material is suggested for the nozzle tip to avoid scratching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



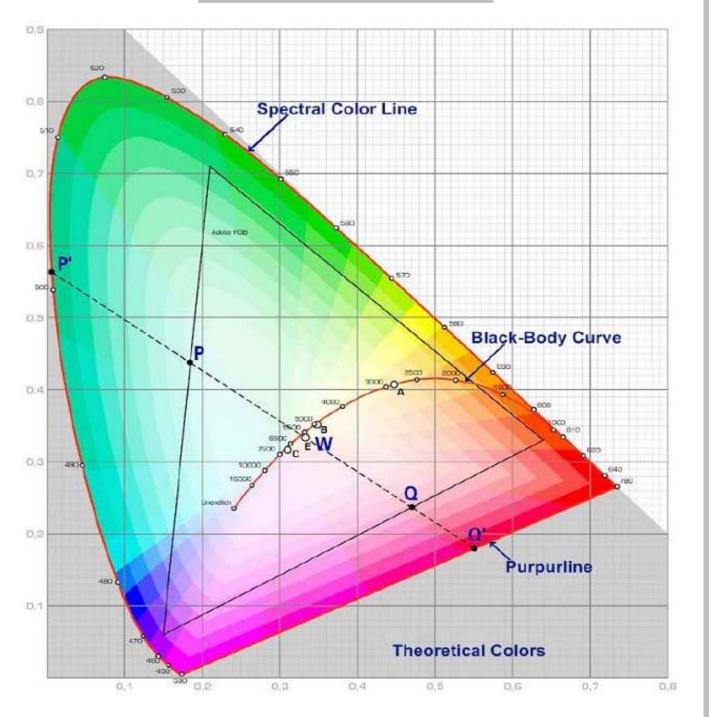
SMT Chip LED	
Orange Red	

					Part No.	: M11	<b>\4004</b>	
					Custome	r:		
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Color table curve



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