

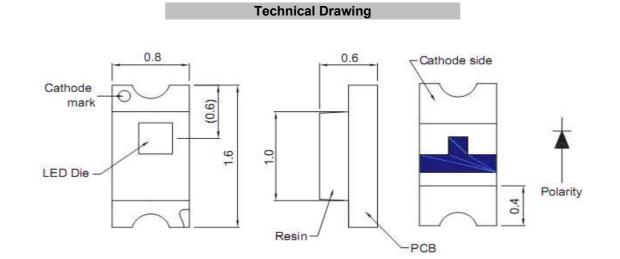


### Applications

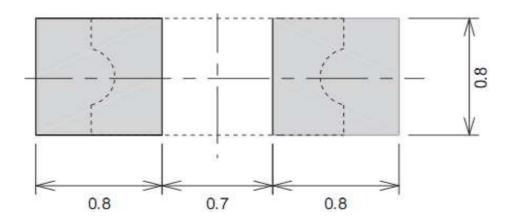
Interior automotive lighting

 Optical indicators
 Communication Products
 Backlighting

 Toys



**Recommended Soldering Pattern** 



	-	s in mm tolerar ss otherwise n	SN	IT Top View Li Orange	ED					
					Part No.	.: M110	05004			
					Custome	er:				
DRW:	Wang	CHKD	Chui	DATE	03.12.2009					
APPD:	Ping		Dia	Sheet	1 from 9					
	APPD: Ping FINISH Dia Sheet 1 from 9									





# **Absolute Maximum Ratings**

Ta=25°C

Item	Symbol	GaAsP	Unit
Power Dissipation	PD	65	mW
DC Forward Current	I <sub>F</sub>	25	mA
Plused Forward Current	I <sub>FP</sub> *	100	mA
Reverse Voltage	V <sub>R</sub>	5	V
Operating Temperature	T <sub>OP</sub>	-30 to 80	°C
Storage Temperature	T <sub>ST</sub>	-40 to 85	°C

\* 0.1 msec pulse, 10% duty cycle

Electrcal / Optical Characteristics

I<sub>F</sub>=20mA Ta=25°C

Ermitting Color		Orange					
Material		GaAsP					
Forward Voltage	typ.	2.1	V <sub>F</sub>				
r orward voltage	max.	2.6	V <sub>F</sub>				
Wavelength	λD	629	nm				
-	λP	642	nm				
typ.	Δλ	35	nm				
Color Temperature	min.		K				
	max.		K				
Luminous Intensity *	min.	4	mcd				
Luminous intensity	typ.	11	mcd				
Reverse Current	max.		μA				
Viewing Angle	2Θ1/2	140					

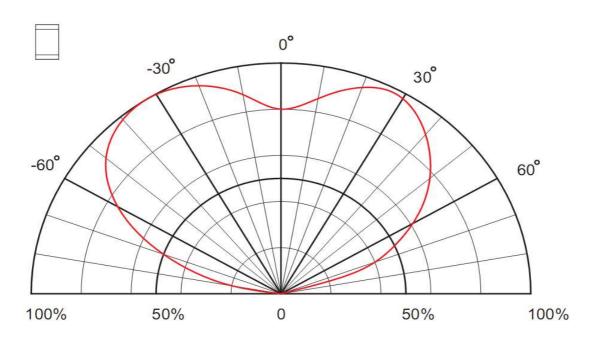
\* Per NIST standards

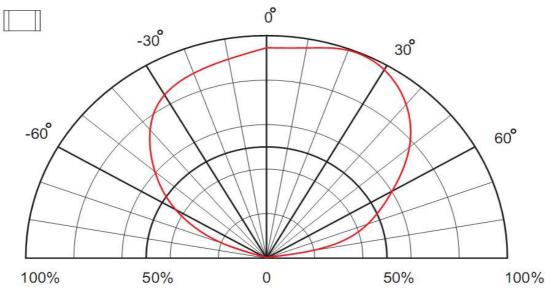
					SN	<b>IT Top View L</b> Orange	.ED				
					Part No.: <b>M11D5004</b>						
					Custome	er:					
DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009				
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**Directive Characteristics** 





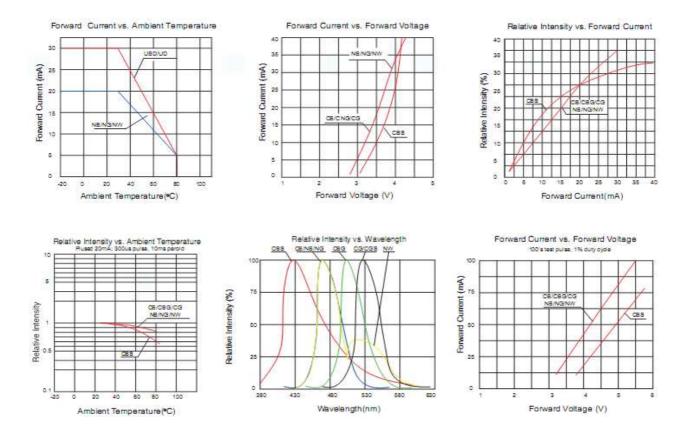
SMT Top View LEI Orange					v LED					
					Part No.: <b>M11D5004</b>					
					Custome	er:				
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Curvs



SMT Top View LED Orange Part No.: M11D5004										
					Part No	.: M11	D5004			
					Custome	er:				
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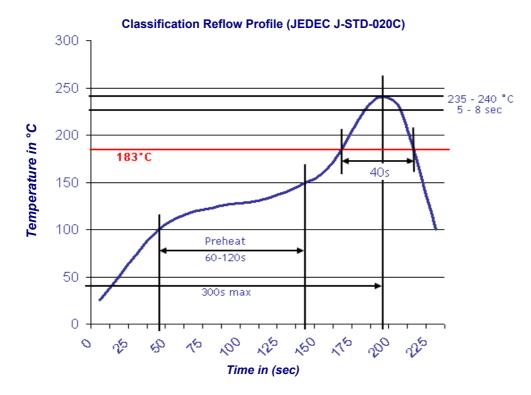
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### **Solder Condition**

# Lead Free Solder



			SMT Top View LED Orange				
			Part No.: <b>M11D5004</b>				
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Wang

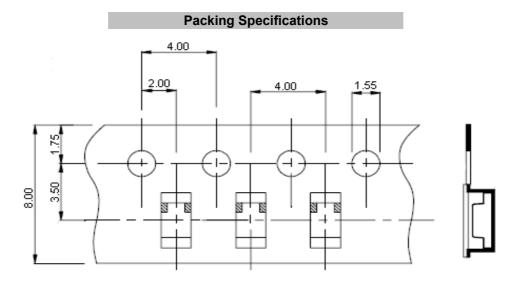
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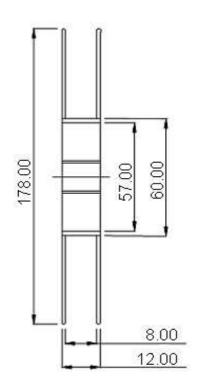
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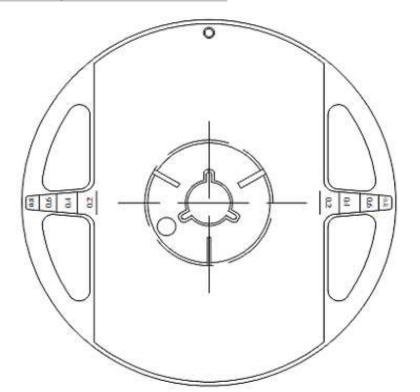






**Reel Specifications** 





					SMT Top View LED Orange		
					Part No.: <b>M11D5004</b>		05004
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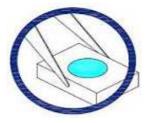




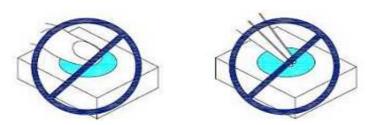
### Handling Precautions

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.

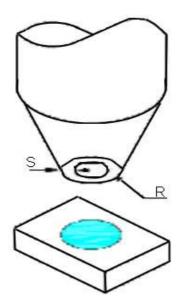


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APPD:	Ping			FINISH	Dia	Sheet	7 from 9			
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- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should 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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	FINISH	Dia Sheet 8 from 9					

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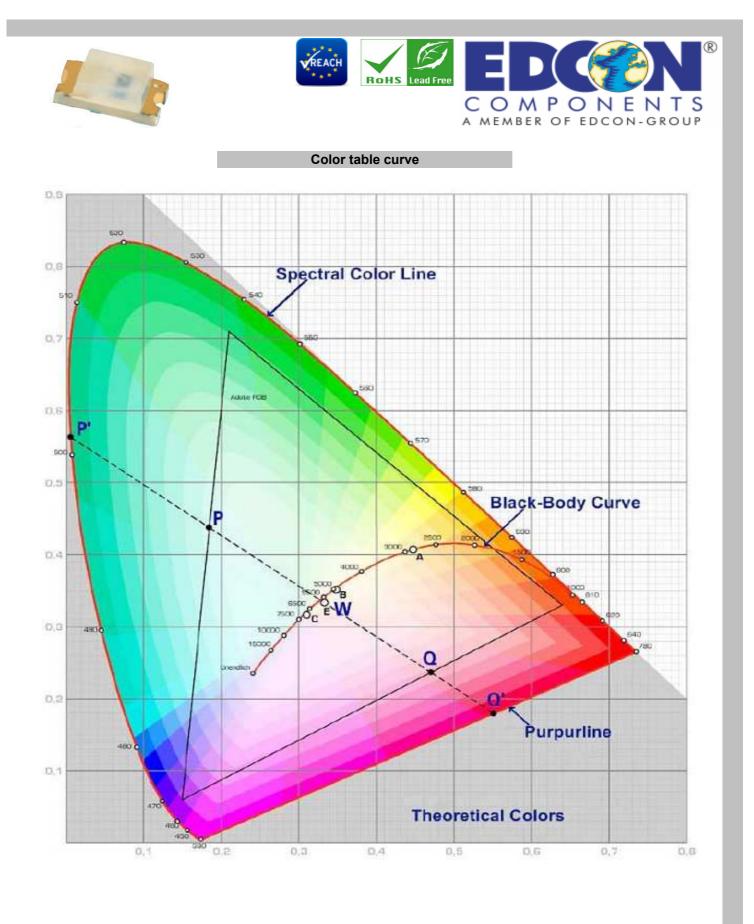
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