

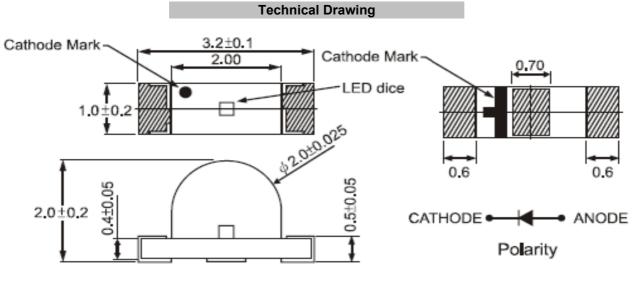


Applications

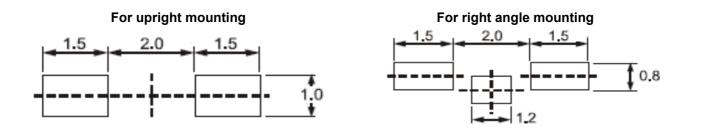
Interior automotive lighting

 Optical indicators
 Communication Products
 Backlighting

 Toys



Recommended Soldering Pattern



Notes	: All dimensions ± 0.1mm unles			SMT Chip LED Red)					
			Part No.	: M11k	(4002					
			Custome	er:						
DRW:	Dong	CHKD	Chang	Chui	DATE	05.12.2009				
APPD:	Ping		Hui	Sheet	1 from 9					
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Absolute Maximum Ratings

Ta=25°C

Item	Symbol	AlGaInP	Unit
Power Dissipation	PD		mW
DC Forward Current	I _F	30	mA
Plused Forward Current	I _{FP} *	100	mA
Reverse Voltage	V _R	5	V
Operating Temperature	T _{OP}	-25 to 80	°C
Storage Temperature	T _{ST}	-30 to 85	°C

* 0.1 msec pulse, 10% duty cycle

Electrcal / Optical Characteristics

I_F=20mA Ta=25°C

Ermitting Color		Red					
Material		AlGaInP					
Forward Voltage	typ.	2.1	V _F				
r orward voltage	max.	2.6	V _F				
Wavelength	λD	632	nm				
-	λP	645	nm				
typ.	Δλ		nm				
Color Temperature	min.		K				
color remperature	max.		K				
Luminous Intensity *	min.	42	mcd				
Lumnous intensity	typ.	70	mcd				
Reverse Current	max.		μA				
Viewing Angle	2Θ1/2	100					

* Per NIST standards

					SMT Chip LE Red	D			
					Part No.	: M11	K4002		
					Custome	er:			
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					,	SMT Chip LED Red)
					Part No.: M11K4002		
					Customer:		
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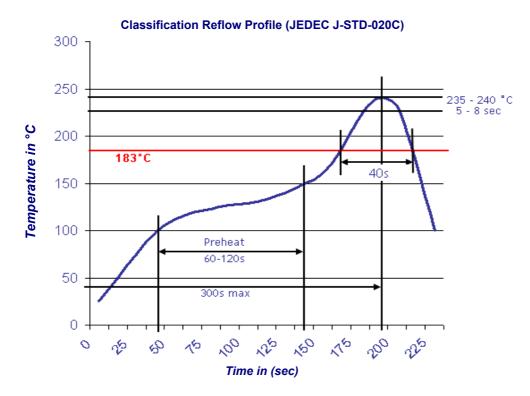
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Solder Condition

Lead Free Solder



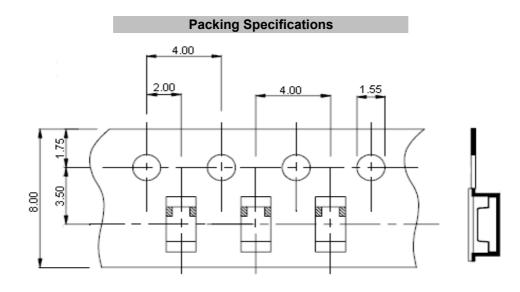
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				Part No.: M11K4002			
				Customer:			
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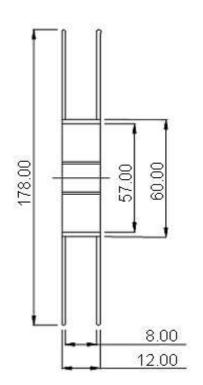
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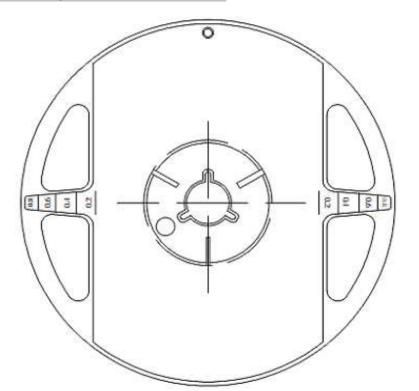






Reel Specifications





						SMT Chip LED Red)
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					Customer:		
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APPD:	Ping			FINISH	Hui	Sheet	6 from 9

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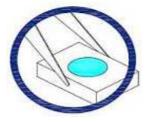




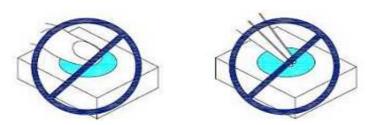
Handling Precautions

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.



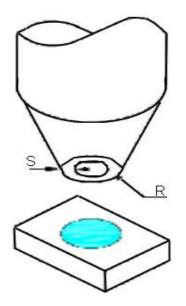
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					Part No.: M11K4002		
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APPD:	Ping			FINISH	Hui	Sheet	7 from 9

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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.



			SMT Chip LED Red)	
		Part No.: M11K4002			
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Chang	MATL:	Chui DATE 05.12.200			
	FINISH	Hui	Sheet	8 from 9	

Dong

Ping

CHKD

DRW:

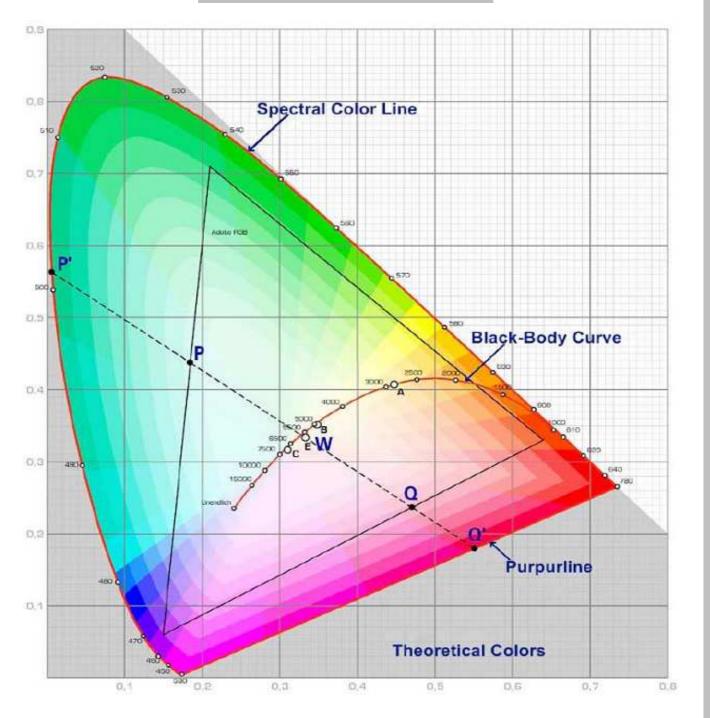
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Color table curve



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