

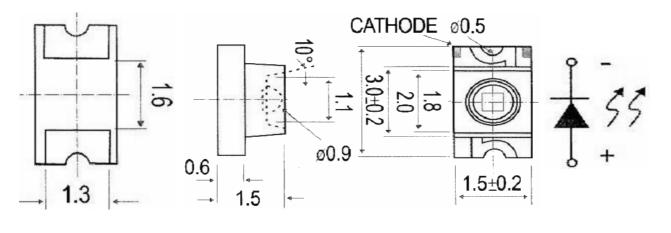


Applications

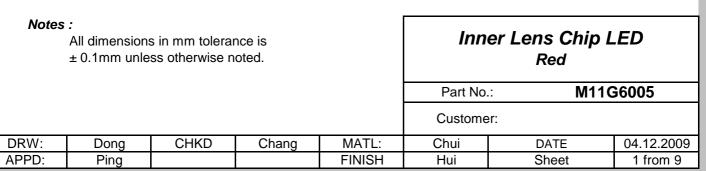
Interior automotive lighting

 Optical indicators
 Communication Products
 Backlighting
 Toys

Technical Drawing



Recommended Soldering Pattern



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Absolute Maximum Ratings

Ta=25°C

Item	Symbol	AlGalnP	Unit
Power Dissipation	PD		mW
DC Forward Current	I _F	20	mA
Plused Forward Current	I _{FP} *		mA
Reverse Voltage	V _R		V
Operating Temperature	T _{OP}		°C
Storage Temperature	T _{ST}	-55 to 100	°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.	2.0	V _F				
r orward voltage	max.	2.4	V _F				
Wavelength	λD	624	nm				
-	λP		nm				
typ.	Δλ		nm				
Color Temperature	min.		K				
Color remperature	max.		K				
Luminous Intensity *	min.	19	mcd				
Lumnous intensity	typ.	47	mcd				
Reverse Current	max.		μA				
Viewing Angle	201/2	120					

* Per NIST standards

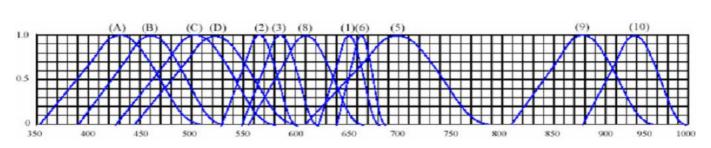
					Inn	er Lens Chip L Red	.ED	
					Part No.: M11G6005			
					Customer:			
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009	
APPD:	Ping			FINISH	Hui	Sheet	2 from 9	
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Curve



Wavelength (nm)

Relative Intensity vs Wavelength

(1)	GaAsP / GaAs 655nm Red	(9)	GaAlAs 880nm
(2)	GaP	(10)	GaAs & GaAlAs
	568nm Yellow Green		940nm
(3)	GaAsP / GaP	(A)	GaN
	585nm Yellow		430nm Blue
(4)	GaAsP / GaP	(B)	InGaN
	635nm Orange & Red		470nm Blue
(5)	GaP	(C)	InGaN
	700nm Red		502nm Green
(6)	GaAlAs / GaAs	(D)	InGaN
	660nm Red		523nm Green
(8)	GaAsP / GaP		
	610nm Red		

					Inner Lens Chip LED Red		
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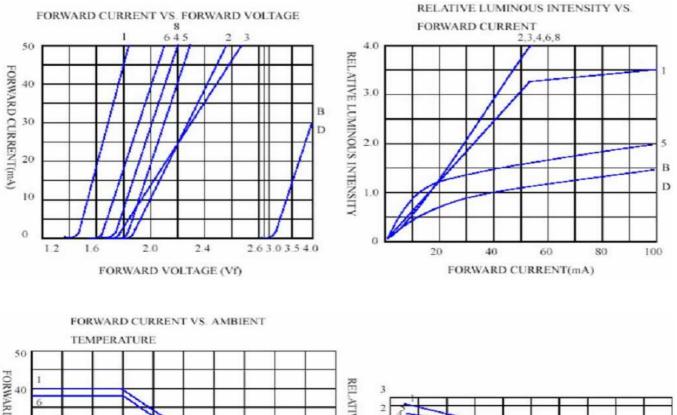
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					Inner Lens Chip LED Red		
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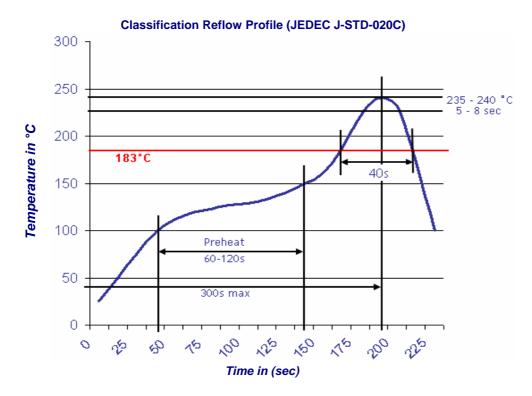
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Solder Condition

Lead Free Solder



			Inn	er Lens Chip I Red	LED	
			Part No.: M11G6005		G6005	
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Dong

Ping

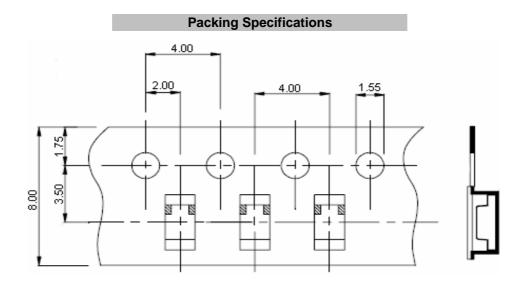
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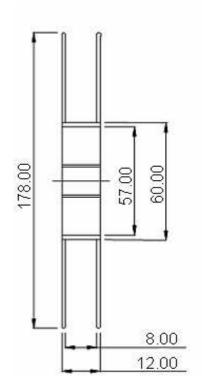
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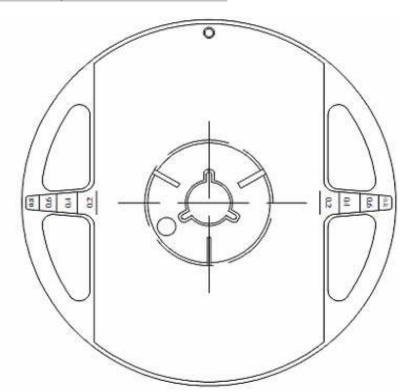






Reel Specifications





					Inner Lens Chip LED Red		
					Part No.: M11G6005		6005
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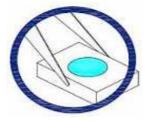




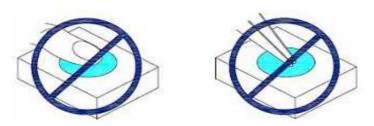
Handling Precautions

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.



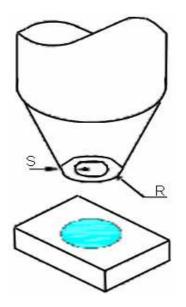
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- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.
- 5. A pliable material is suggested for the nozzle tip to avoid scratching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



		Inn	er Lens Chip Red) LED		
		Part No.: M11G6005				
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Dong

Ping

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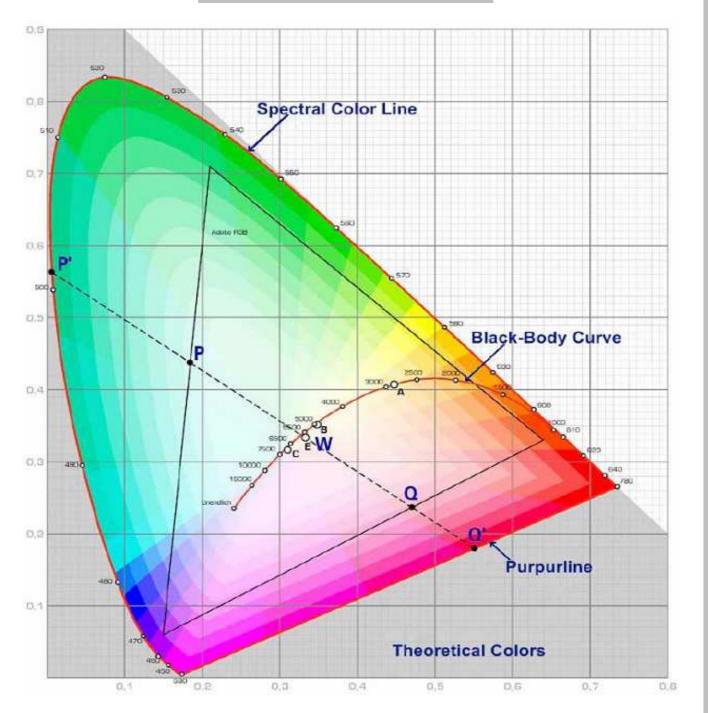
DRW:

APPD:





Color table curve



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					Part No.: M11G6005		
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