

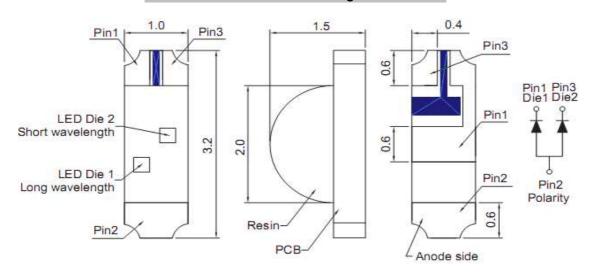




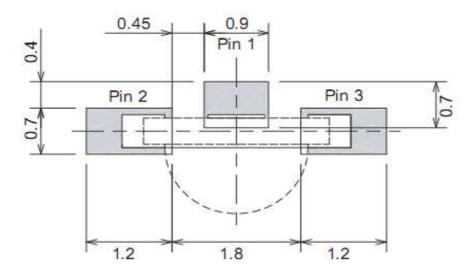
Applications

- Interior automotive lighting
 - Optical indicators
- Communication Products
 - Backlighting
 - Toys

Technical Drawing



Recommended Soldering Pattern



Notes:

All dimensions in mm tolerance is ± 0.1 mm unless otherwise noted.

SMT	Side	View	LEL)
Orange				Blue

Part No.: **M11L9007**

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009
APPD:	Ping			FINISH	Hui	Sheet	1 from 9









Absolute Maximum Ratings

Ta=25°C

Item	Symbol	AllnGaP	InGaN	Unit
Power Dissipation	P_{D}	72	78	mW
DC Forward Current	l _F	30	20	mA
Plused Forward Current	I _{FP} *	100	80	mA
Reverse Voltage	V_R	;	V	
Operating Temperature	T _{OP}	-30 1	to 80	°C
Storage Temperature	T _{ST}	-40 t	°C	

^{* 0.1} msec pulse, 10% duty cycle

Electrcal / Optical Characteristics

I_F=20mA Ta=25°C

Ermitting Color		Orange	Blue	
Material		AllnGaP	InGaN	
Forward Voltage	typ.	1.9	3.3	V_{F}
Forward voilage	max.	2.4	3.9	V_{F}
Wavelength	λD	622	470	nm
	λP	636	468	nm
typ.	Δλ	17	40	nm
Color Temperature	min.			K
Color reinperature	max.			K
Luminous Intensity *	min.	56	36	mcd
Lummous intensity	typ.	120	60	mcd
Reverse Current	max.			μA
Viewing Angle	2Θ1/2	x = 1	40 y = 120	

^{*} Per NIST standards

SMT Side View LED
Orange Blue

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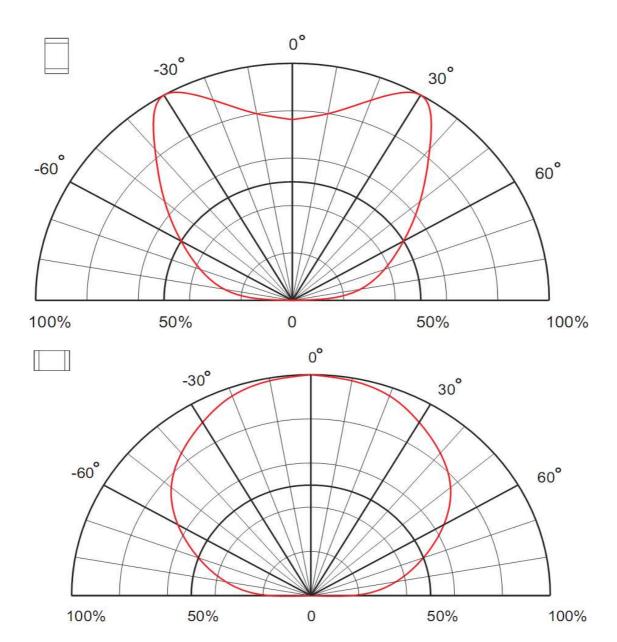
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009
APPD:	Ping			FINISH	Hui	Sheet	2 from 9







Directive Characteristics



SMT Side	View LED
Orange	Blue

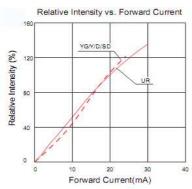
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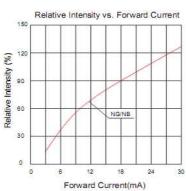
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APPD:	Ping			FINISH	Hui	Sheet	3 from 9

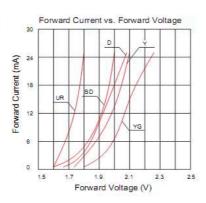




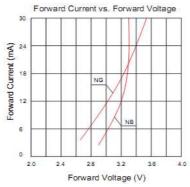


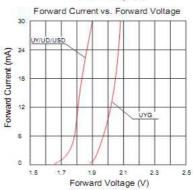


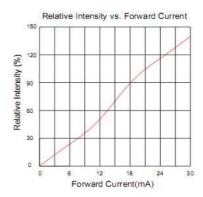




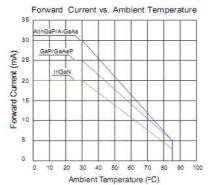
Curvs







A MEMBER OF EDCON-GROUP



SMT Side View LED Orange Blue

Part No.: **M11L9007**

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009
APPD:	Ping			FINISH	Hui	Sheet	4 from 9

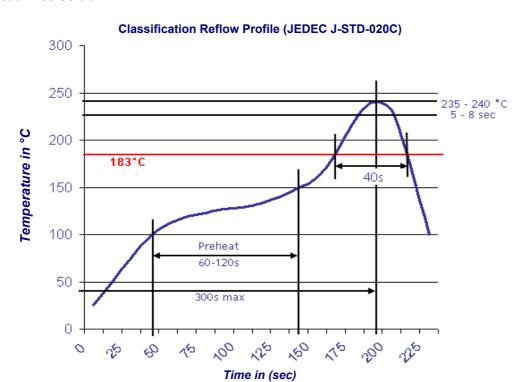






Solder Condition

Lead Free Solder



SMT Side View LED
Orange Blue

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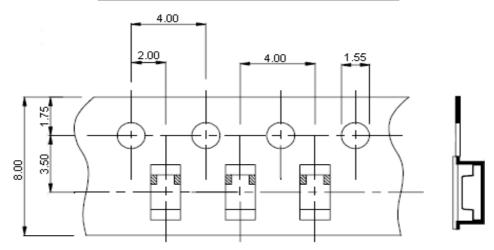
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009
APPD:	Ping			FINISH	Hui	Sheet	5 from 9



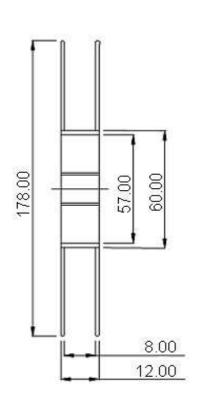


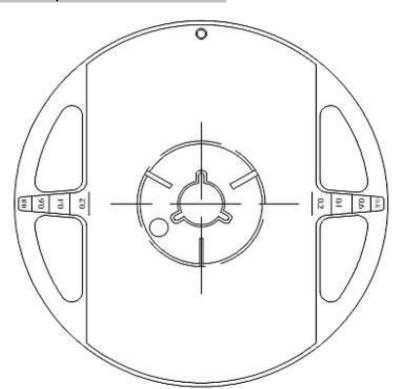


Packing Specifications



Reel Specifications





SMT Side View LED Orange Blue

Part No.: **M11L9007**

Customer:

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009
APPD:	Ping			FINISH	Hui	Sheet	6 from 9







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.



SMT Side View LED Orange Blue

Part No.: **M11L9007**

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DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009
APPD:	Ping			FINISH	Hui	Sheet	7 from 9

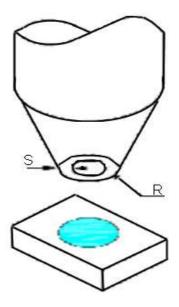








- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.
- 5. A pliable material is suggested for the nozzle tip to avoid scratching or damaging the LED surface during pickup.
- 6. 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 Side View LED
Orange Blue

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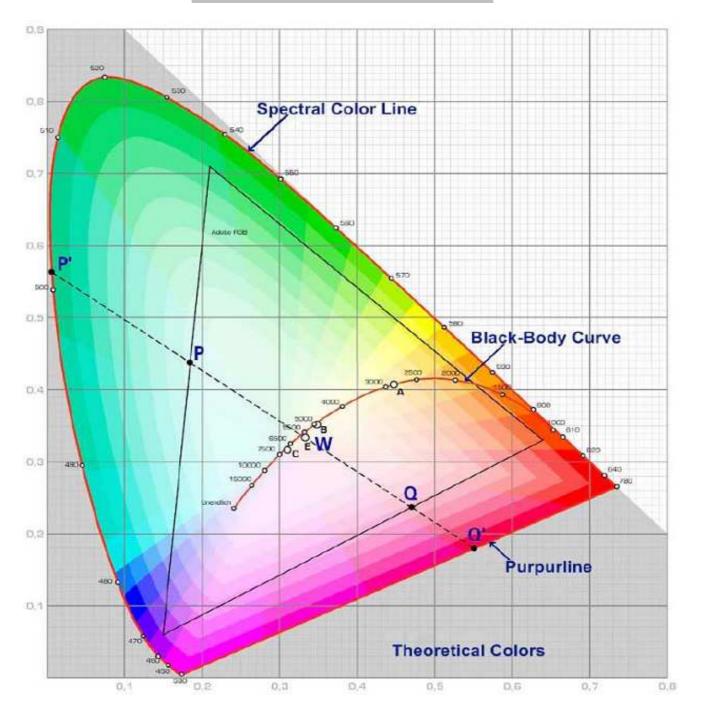
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009
APPD:	Ping			FINISH	Hui	Sheet	8 from 9







Color table curve



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DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009
APPD:	Ping			FINISH	Hui	Sheet	9 from 9