

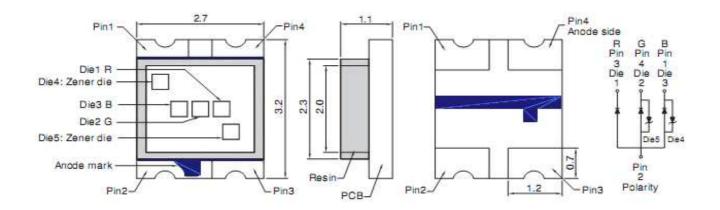




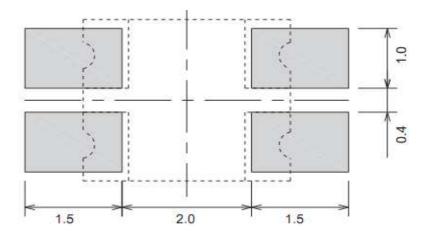
Applications

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

Technical Drawing



Recommended Soldering Pattern



Notes:

All dimensions in mm tolerance is

± 0.1mm unless otherwise noted.

SMT Top View LED Green

Orange

Blue

M11C3001 Part No.:

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009
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Absolute Maximum Ratings

Ta=25°C

Item	Symbol	AllnGaP	InGaN	Unit
Power Dissipation	P_{D}	72	78	mW
DC Forward Current	I _F	30	20	mA
Plused Forward Current	I _{FP} *	100	80	mA
Reverse Voltage	V_R		5	V
Operating Temperature	T _{OP}	-30 to 80		°C
Storage Temperature	T _{ST}	-40	to 85	°C

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

Electrcal / Optical Characteristics

I_F=20mA Ta=25°C

Ermitting Color		Orange	Green	Blue	
Material		AllnGaP	InGaN	InGaN	
Forward Voltage	typ.	1.9	3.3	3.3	V_{F}
Forward voitage	max.	2.4	3.9	3.9	V_{F}
Wavelength	λD	622	527	470	nm
_	λP	636	520	468	nm
typ.	Δλ	17	40	40	nm
Color Temperature	min.				K
Color reinperature	max.				K
Luminous Intensity *	min.	90	90	56	mcd
Luminous intensity	typ.	140	200	90	mcd
Reverse Current	max.				μA
Viewing Angle	201/2		x = 100 y = 120		

^{*} Per NIST standards

DRW:

APPD:

Dong

Ping

CHKD

 SMT Top View LED

 Orange
 Green
 Blue

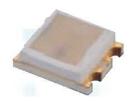
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 M11C3001

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 Chui
 DATE
 04.12.2009

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Chang



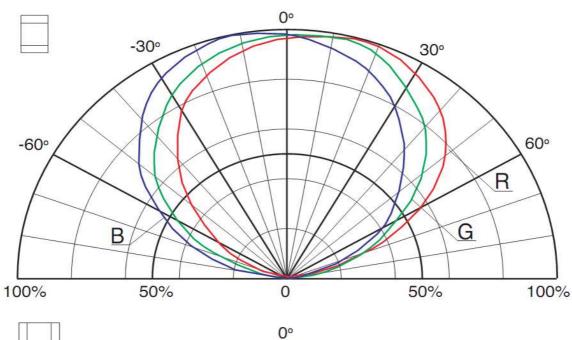
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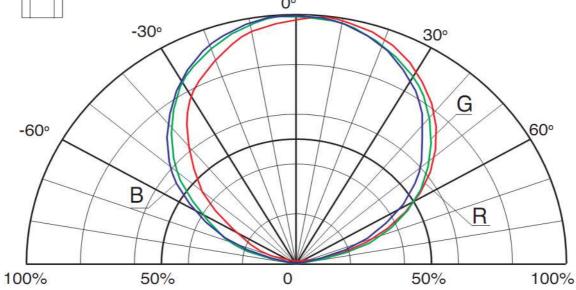
Dong





Directive Characteristics





	SMT Top View LED								
	Ora	ange	Green	Blue					
	Par	t No.:	M11C3001						
	Cus	tomer:							
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Chang

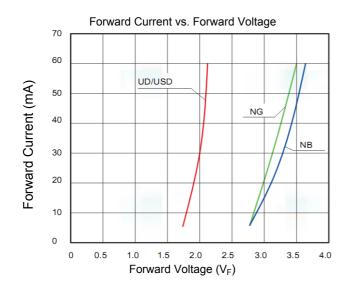
CHKD

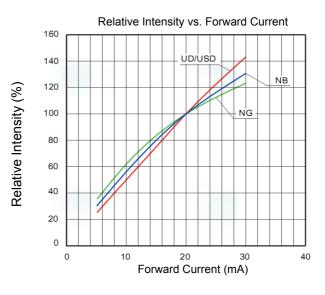


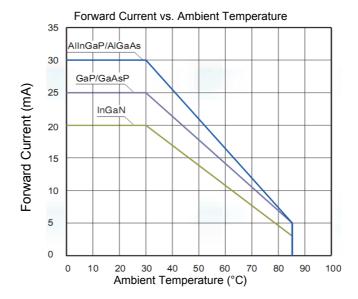




Curvs







SMT Top View LED
Orange Green Blue

Part No.: **M11C3001**

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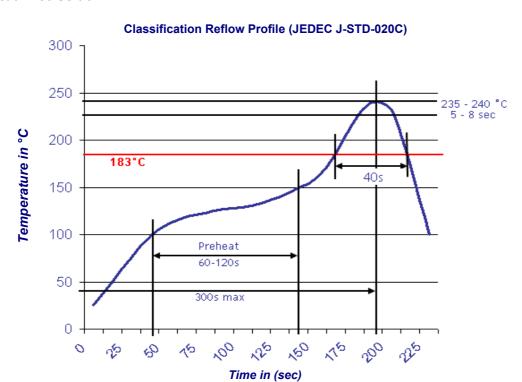






Solder Condition

Lead Free Solder



SMT T	op View LED	
Orange	Green	Blue

Part No.: **M11C3001**

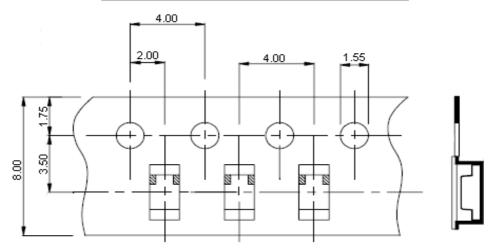
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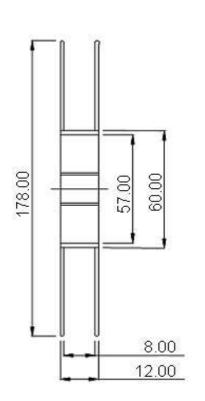


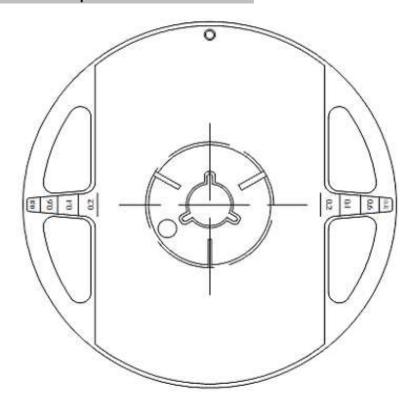


Packing Specifications



Reel Specifications





SMT Top View LED Orange Green Blue

M11C3001 Part No.:

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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.



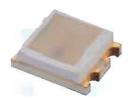
SMT Top View LED Orange Green Blue

Part No.: **M11C3001**

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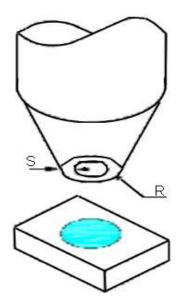
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- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.
- 5. A pliable material is suggested for the nozzle tip to avoid scratching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



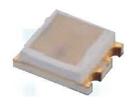
SMT Top View LED
Orange Green Blue

Part No.: **M11C3001**

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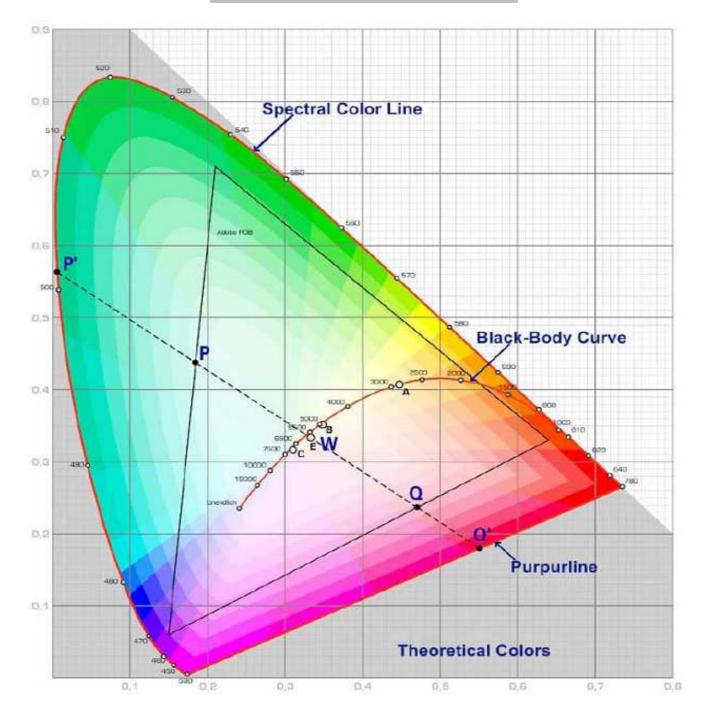
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Color table curve



SMT Top View LED									
Ora	ange	Green	Blue						
Paı	t No.:	M11C3	3001						
Cus	tomer:								
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