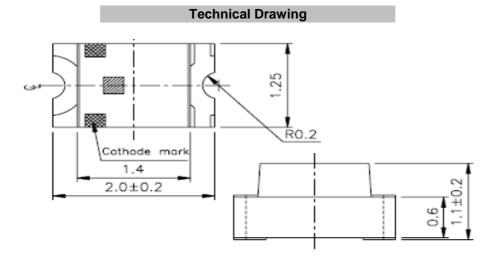




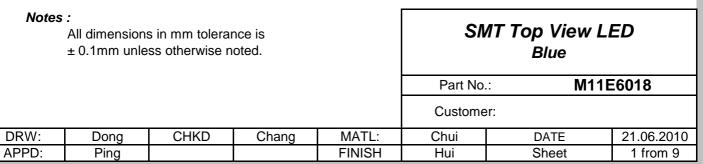
Applications

Interior automotive lighting

 Optical indicators
 Communication Products
 Backlighting
 Toys



Recommended Soldering Pattern



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Absolute Maximum Ratings

Item	Symbol	InGaN	Unit
Power Dissipation	PD		mW
DC Forward Current	I _F		mA
Plused Forward Current	I _{FP} *		mA
Reverse Voltage	V _R		V
Operating Temperature	T _{OP}		°C
Storage Temperature	T _{ST}		°C

* 0.1 msec pulse, 10% duty cycle

Electrcal / Optical Characteristics

 $I_F = 20 \text{mA}$

Ermitting Color		Blue					
Material	InGaN						
Forward Voltage	typ.	2.9	V _F				
Forward voltage	max.	3.5	V _F				
Wavelength	λD	460	nm				
	λP	470	nm				
typ.	Δλ		nm				
Color Temperature	min.		K				
	max.		K				
Luminous Intensity *	min.	60	mcd				
Lumnous mensity	typ.	80	mcd				
Reverse Current	max.		μA				
Viewing Angle	201/2	120					

* Per NIST standards

					SMT Top View LED Blue					
					Part No.: M11E6018					
					Custome	er:				
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	21.06.2010			
APPD:	Ping			FINISH	Hui	Sheet	2 from 9			
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Directive Characteristics

		SMT Top View LED Blue		
		Part No.: M11E6018		E6018
		Customer:		
Chang	MATL:	Chui	DATE	21.06.2010
	FINISH	Hui	Sheet	3 from 9
		FINISH	Part No. Custome Chang MATL: Chui FINISH Hui	Blue Part No.: M11E Customer: Customer: Chang MATL: Chui FINISH Hui Sheet

DRW: APPD:

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Curvs

				SMT Top View LED Blue			
				Part No.: M11E6018		E6018	
				Customer:			
Dong	CHKD	Chang	MATL:	Chui	DATE	21.06.2010	
Ping			FINISH	Hui	Sheet	4 from 9	

DRW:

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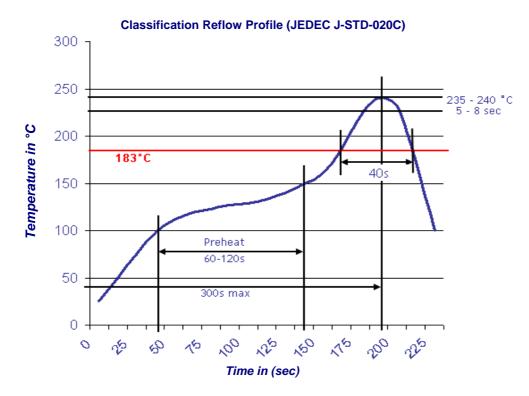
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Solder Condition

Lead Free Solder



		SMT Top View LED Blue			
		Part No.: M11E		E6018	
		Custome			
Chang	MATL:	Chui	DATE	21.06.2010	
	FINISH	Hui	Sheet	5 from 9	

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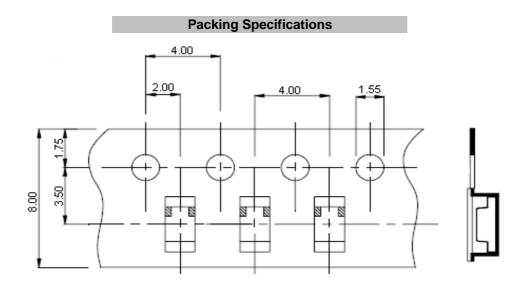
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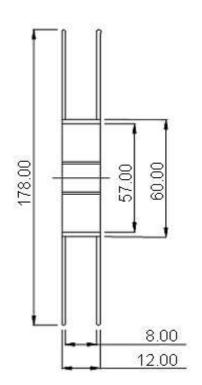
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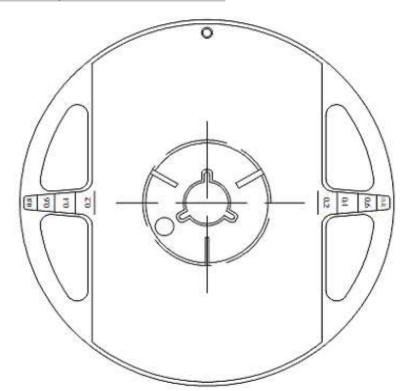






Reel Specifications





					SMT Top View LED Blue		
					Part No.: M11E6018		E6018
					Custome	er:	
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	21.06.2010
APPD:	Ping			FINISH	Hui	Sheet	6 from 9

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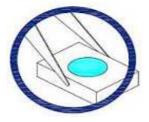




Handling Precautions

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.



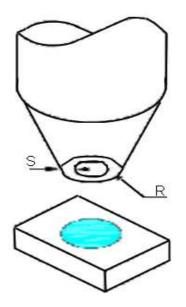
					SMT Top View LED Blue		
					Part No.: M11E6018		E6018
					Custome	er:	
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	21.06.2010
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- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter 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 Blue				
	Part No.	.: M11I	E6018		
	Custome				
MATL:	Chui	DATE	21.06.2010		
FINISH	Hui	Sheet	8 from 9		

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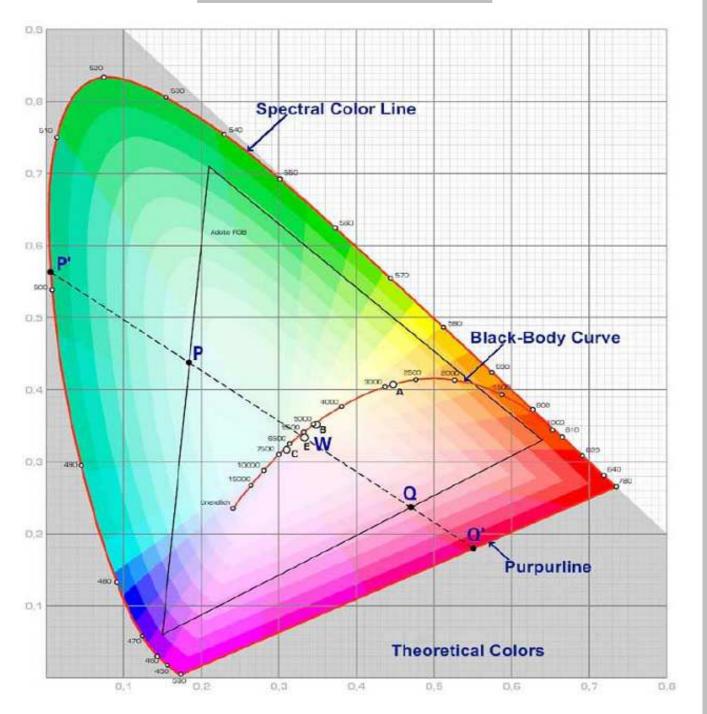
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Chang





Color table curve



					SMT Top View LED Blue		
					Part No.: M11E6018		E6018
					Custome	er:	
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