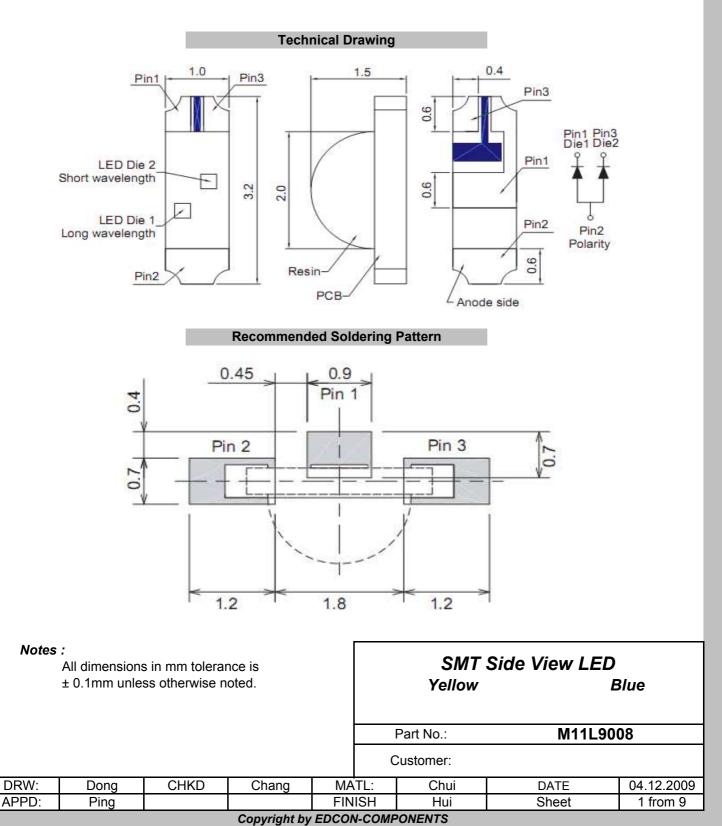




Applications







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	Į	5	V		
Operating Temperature	T _{OP}	-30 1	-30 to 80			
Storage Temperature	T _{ST}	-40 1	°C			

* 0.1 msec pulse, 10% duty cycle

Electrcal / Optical Characteristics

I_F=20mA Ta=25°C

Ermitting Color		Yellow	Blue		
Material		AllnGaP	InGaN		
Forward Voltage	typ.	1.9	3.3	V _F	
Forward voltage	max.	2.4	3.9	V _F	
Wavelength	λD	589	470	nm	
	λP	593	468	nm	
typ.	Δλ	15	40	nm	
Color Temperature	min.			K	
	max.			K	
Luminous Intensity *	min.	36	36	mcd	
Lummous intensity	typ.	120	60	mcd	
Reverse Current	max.		μΑ		
Viewing Angle	2⊖1/2 x = 140 y = 120				

* Per NIST standards

CHKD

			SMT Side View LED Yellow Blue					
			Part No.:	M11L90	L9008			
		C	Customer:					
Chang	MA	TL:	Chui	DATE	04.12.2009			
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Dong

Ping

DRW:

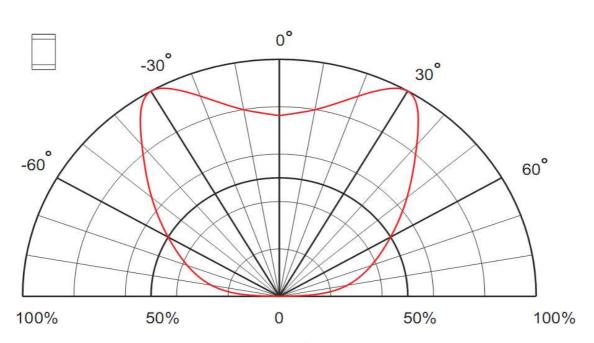
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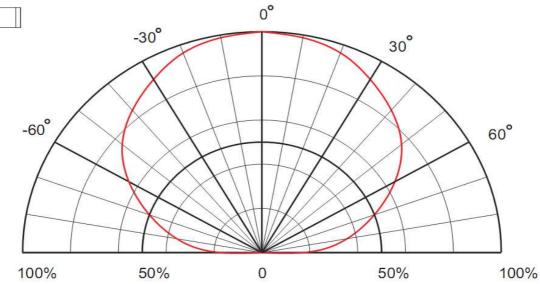


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Directive Characteristics





					SMT Side View LED								
					Yellow Blue			Blue					
				-	Part No.: M11L9008		008						
					Customer:								
DRW:	Dong	CHKD	Chang	MATL:		Chui	DATE	04.12.2009					
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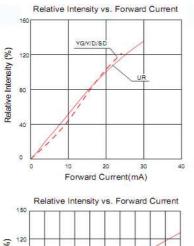
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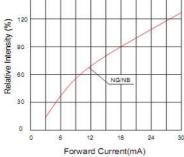
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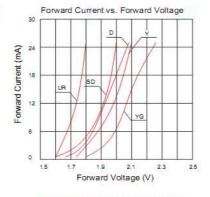


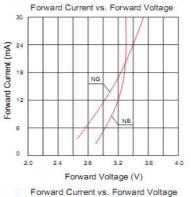


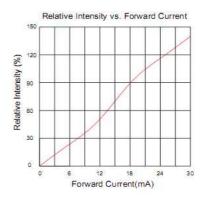
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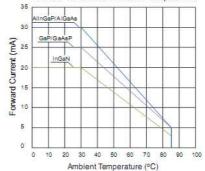












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			SMT Side View LED							
			Yellow Blue							
			Part No.: M11L9008							
			C	Customer:						
CHKD	Chang	MATL:		Chui	DATE	04.12.2009				
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Dong Ping

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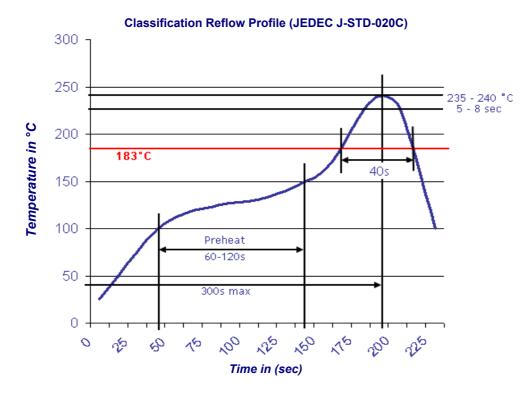
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Solder Condition

Lead Free Solder

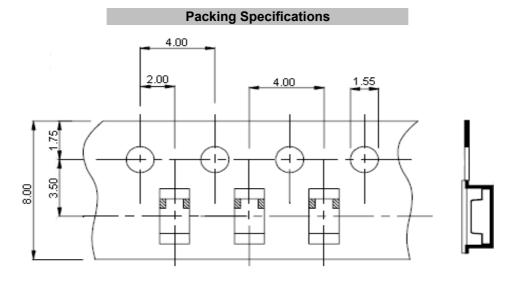


				SMT Side View LED						
				Yellow Blue						
				Part No.: M11L9008						
				Customer:						
Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009				
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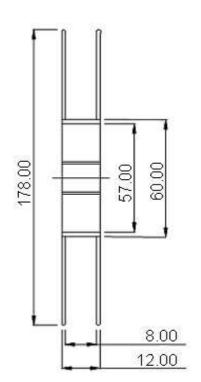
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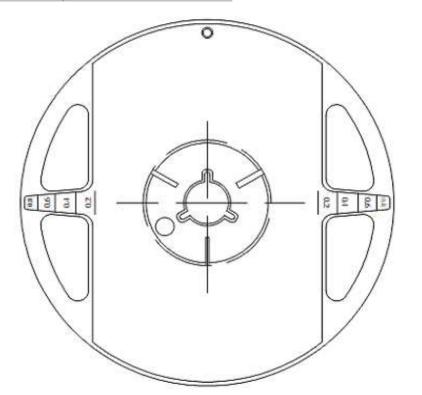






Reel Specifications





					SMT Side View LED YellowPart No.:M11L9008					
					Customer:					
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009			
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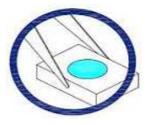




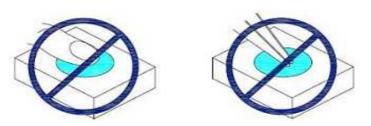
Handling Precautions

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 Side View LED							
			Yellow Blue							
			Part No.: M11L9008							
			C	Customer:						
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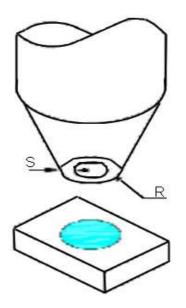
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- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.
- 5. A pliable material is suggested for the nozzle tip to avoid scratching 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 Side View LED Yellow Blue						
			Part No.:	M11L90	08			
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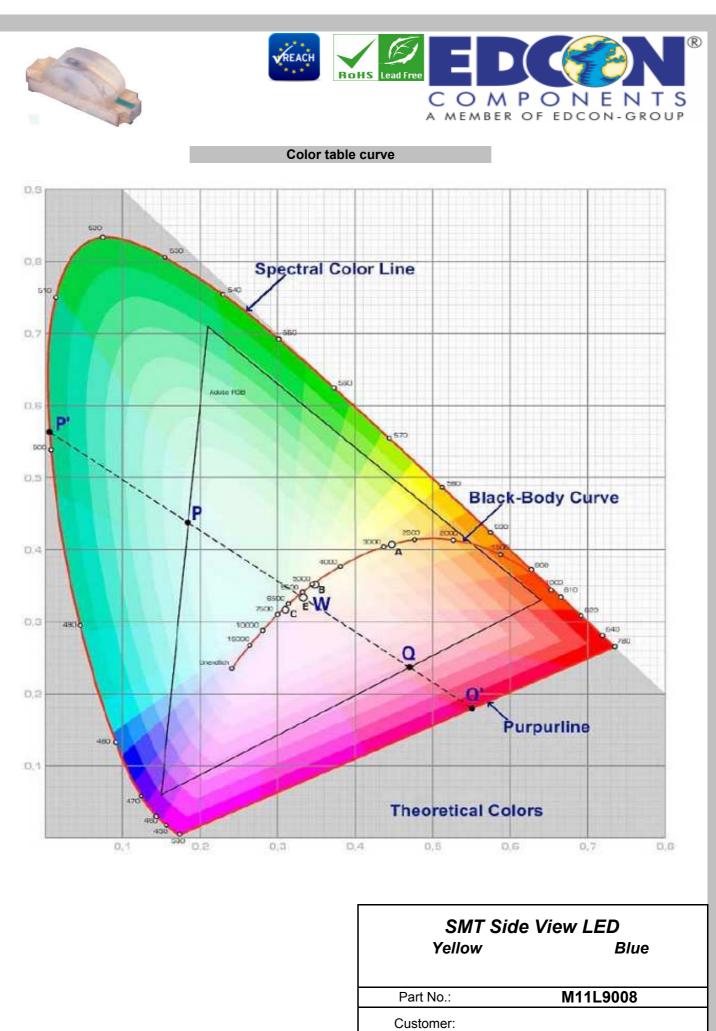
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