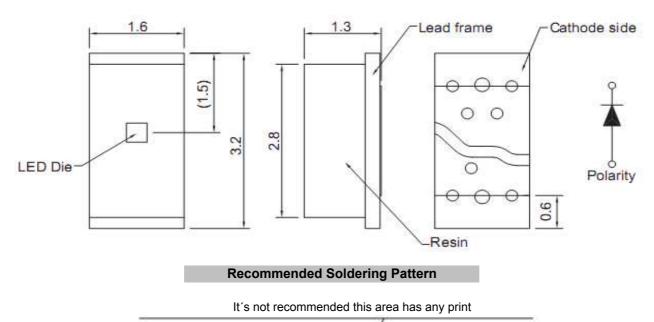
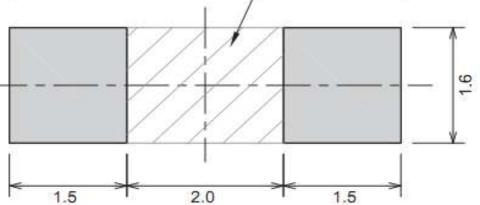




Applications

Technical Drawing





	: All dimensions ± 0.1mm unles		SN	IT Top View L Blue	ED		
			Part No.	.: M11I	F8002		
					Custome	er:	
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009
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Absolute Maximum Ratings

Ta=25°C

Item	Symbol	InGaN	Unit
Power Dissipation	PD	117	mW
DC Forward Current	I _F	30	mA
Plused Forward Current	I _{FP} *	120	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

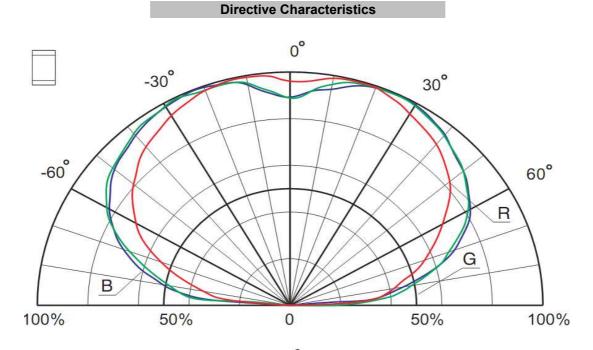
Ermitting Color	Blue				
Material	InGaN				
Forward Voltage	typ.	3.3	V _F		
i orwaru voltage	max.	3.9	V _F		
Wavelength	λD	470	nm		
•	λP	468	nm		
typ.	Δλ	40	nm		
Color Temperature	min.		K		
	max.		K		
Luminous Intensity *	min.	71.5	mcd		
Lumnous intensity	typ.	100	mcd		
Reverse Current	max.		μA		
Viewing Angle	2Θ1/2	140			

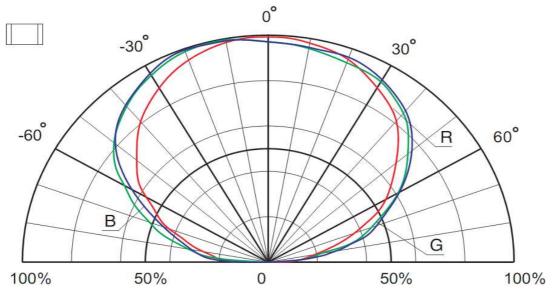
* Per NIST standards

					SMT Top View LED Blue				
					Part No.	: M11	F8002		
					Custome	er:			
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009		
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					SN	IT Top View Li Blue	ED
					Part No.: M11F8002		-8002
					Custome	er:	
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009
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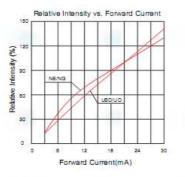
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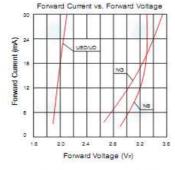
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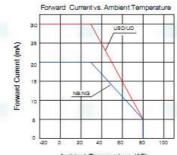




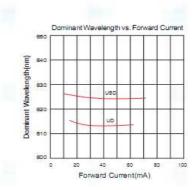
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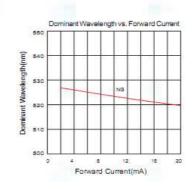




Ambient Temperature (°C)



510	minant W	avelen	gth vs. Fo	rward Cu	rrent
500		\vdash	++	++	-
490		\vdash			
480		\square	++		
470			NB		
460		Ļ	12	19	



				IT Top View Li Blue	ED
			Part No.: M11F8002		-8002
			Customer:		
CHKD	Chang	MATL:	Chui	DATE	04.12.2009
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Dong Ping

DRW:

APPD:

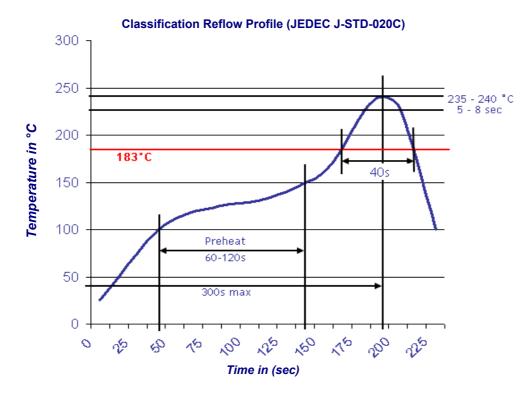
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Solder Condition

Lead Free Solder



			SN	IT Top View L Blue	ED
			Part No.: M11F8002		F8002
			Custome	r:	
CHKD	Chang	MATL:	Chui	DATE	04.12.2009
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Dong

Ping

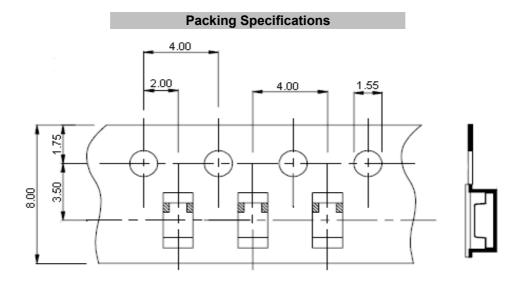
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APPD:

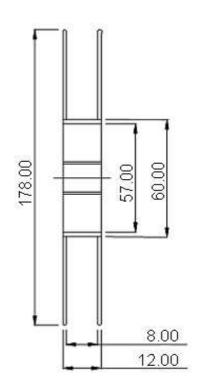
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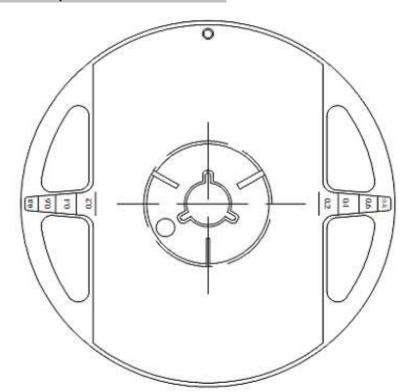






Reel Specifications





					SN	IT Top View Li Blue	ED
					Part No.: M11F8002		8002
					Custome	er:	
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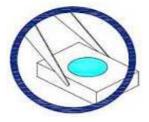




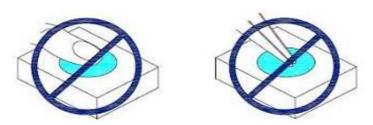
Handling Precautions

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.



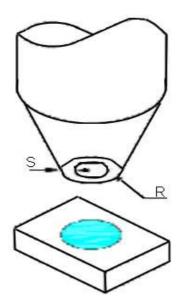
					SMT Top View LED Blue		ED
					Part No.: M11F8002		F8002
					Custome	er:	
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009
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- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter 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	F8002		
	Custome				
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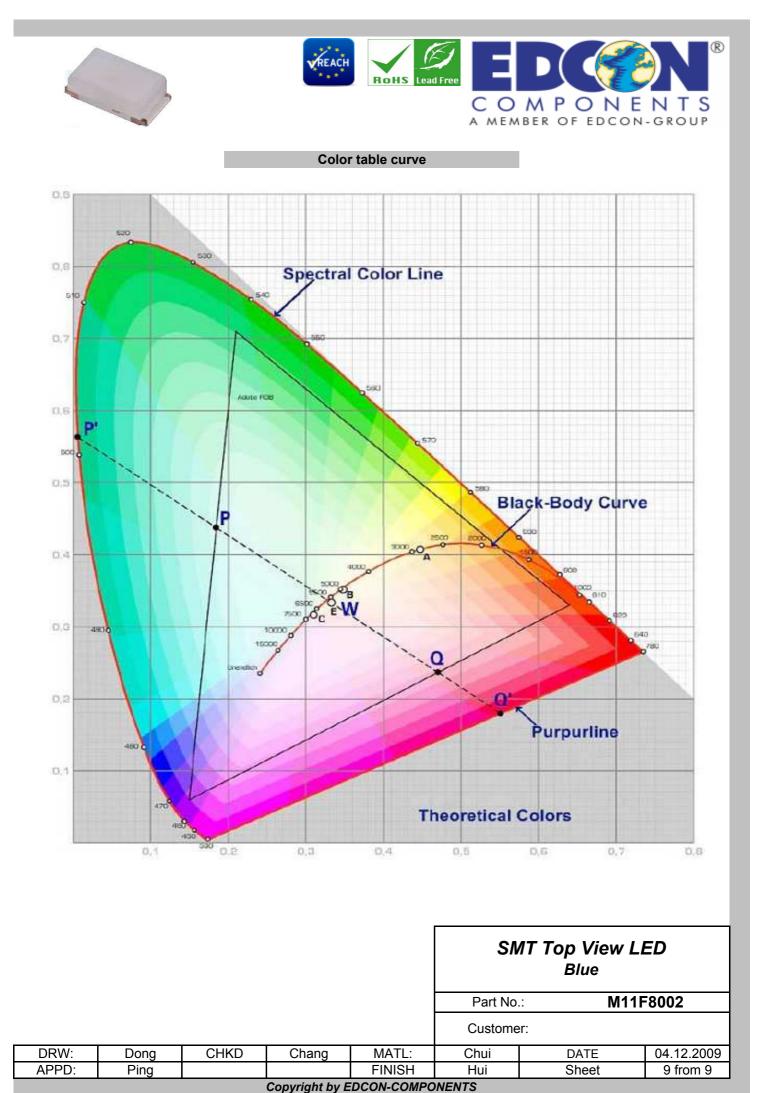
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