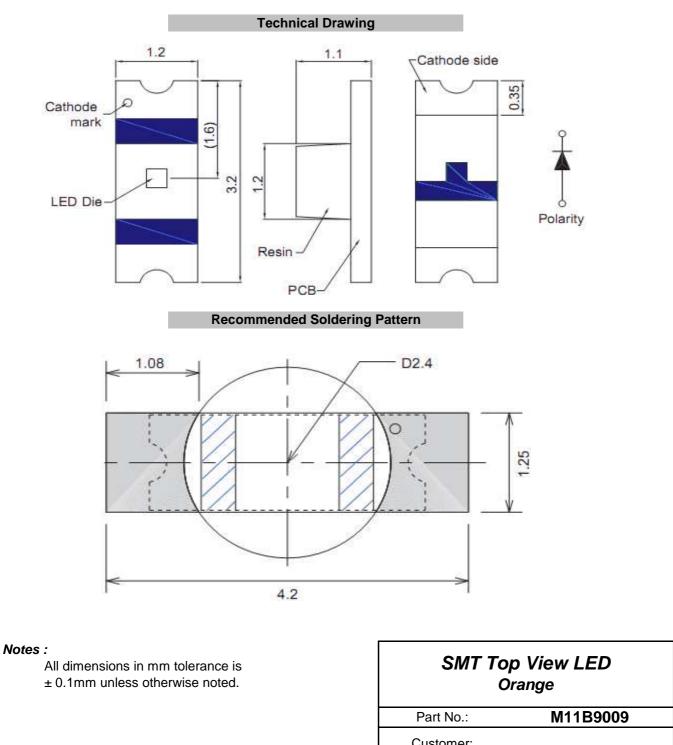




Applications

Interior automotive lighting

 Optical indicators
 Communication Products
 Backlighting
 Toys



						Custome		
ſ	DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009
ſ	APPD:	Ping			FINISH	Dia	Sheet	1 from 9





Absolute Maximum Ratings

Ta=25°C

Item	Symbol	AllnGaP	Unit
Power Dissipation	P _D	72	mW
DC Forward Current	I _F	30	mA
Plused Forward Current	I _{FP} *	100	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				
Material	AllnGaP					
Forward Voltage	typ.	1.9	V _F			
r orward voltage	max.	2.4	V _F			
Wavelength	λD	622	nm			
-	λP	636	nm			
typ.	Δλ	17	nm			
Color Temperature	min.		K			
Color remperature	max.		K			
Luminous Intensity *	min.	35	mcd			
Luminous intensity	typ.	60	mcd			
Reverse Current	max.		μA			
Viewing Angle	201/2	140				

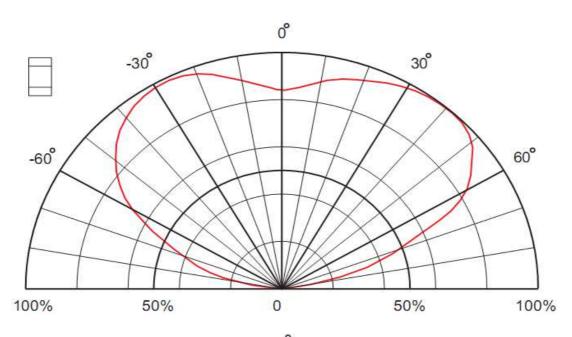
* Per NIST standards

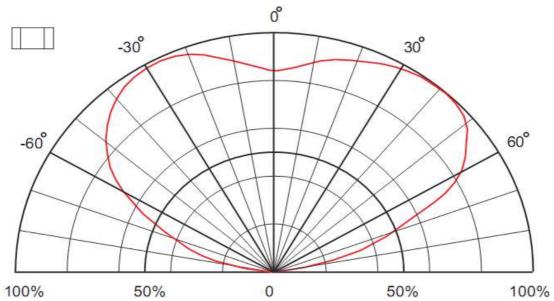
					SN	IT Top View L Orange	ED
					Part No.: M11B9009		
					Custome	er:	
DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009
APPD:	Ping			FINISH	Dia	Sheet	2 from 9
			NENTS				





Directive Characteristics





					SMT Top View LED Orange		
					Part No.: M11B9009		
					Customer:		
DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009
APPD:	Ping			FINISH	Dia	Sheet	3 from 9

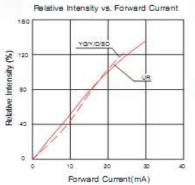
www.edcon-components.com

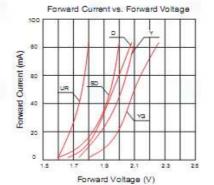
Copyright by EDCON-COMPONENTS





Curvs





Forward Current vs. Forward Voltage

NG

2.8

Forward Voltage (V)

3.2

3.6 4.0

30

24

18

12

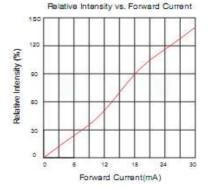
6

0

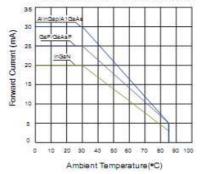
2.0

24

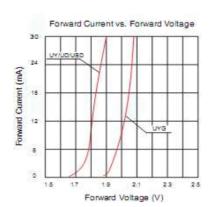
Forward Current (mA)



Forward Current vs. Ambient Temperature



Relative Intensity vs. Forward Current 150 Relative Intensity (%) 120 90 60 NG/NB 30 0 is, 6 12 18 24 30 Forward Current(mA)



				SN	SMT Top View LED Orange		
				Part No.: M11B9009		39009	
				Customer:			
Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009	
Ping			FINISH	Dia	Sheet	4 from 9	

www.edcon-components.com

DRW: APPD:

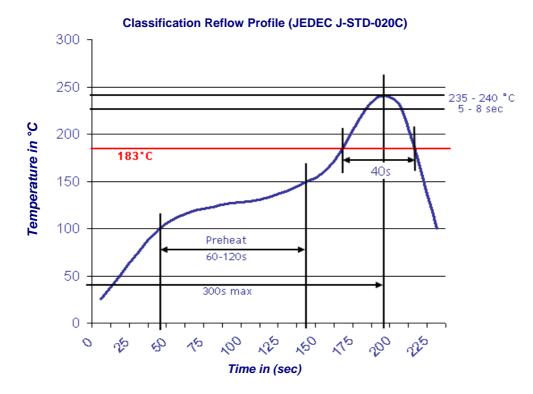
Copyright by EDCON-COMPONENTS





Solder Condition

Lead Free Solder



			SMT Top View LED Orange			
			Part No.	.: M11I	39009	
			Custome	er:		
CHKD	Wung	MATL:	Chui DATE 03.12.200			
		FINISH	Dia Sheet 5 fron			

Wang

Ping

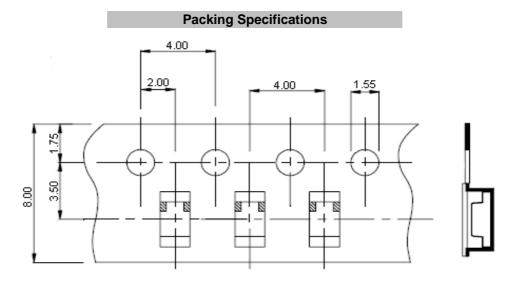
DRW:

APPD:

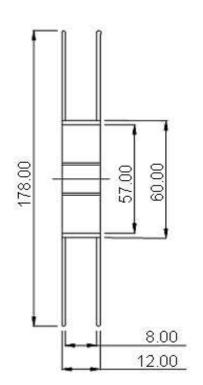
Copyright by EDCON-COMPONENTS

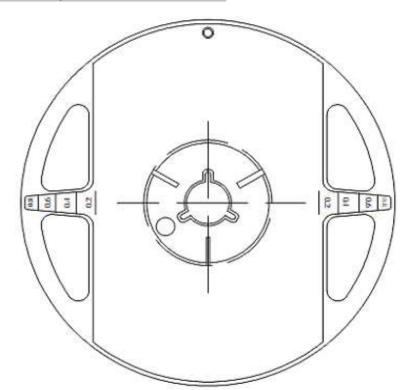






Reel Specifications





					SMT Top View LED Orange		
					Part No.: M11B9009		39009
					Customer:		
DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009
APPD:	Ping			FINISH	Dia	Sheet	6 from 9

www.edcon-components.com

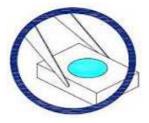




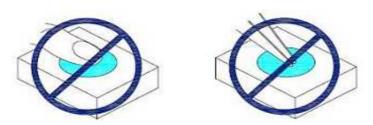
Handling Precautions

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.

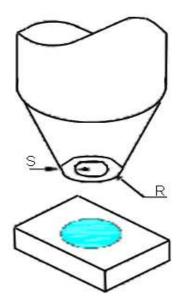


					SMT Top View LED Orange		
					Part No.: M11B9009		B9009
					Customer:		
DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009
APPD:	Ping			FINISH	Dia	Sheet	7 from 9





- 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 Top View LED Orange				
		Part No.: M11B9009				
		Custome	er:			
Wung	MATL:	Chui DATE 03.12.2				
	FINISH	Dia				

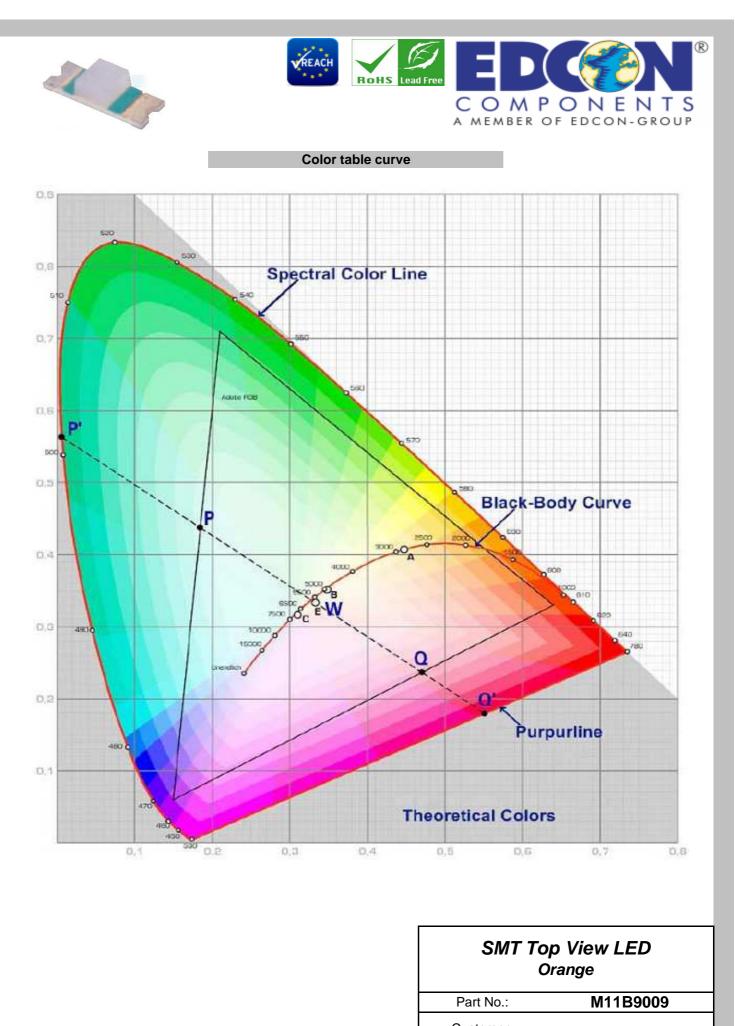
Wang

Ping

CHKD

DRW:

APPD:



					Custome	er:	
DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009
APPD:	Ping			FINISH	Dia	Sheet	9 from 9
			Copyright by E	DCON-COMPC	NENTS		