

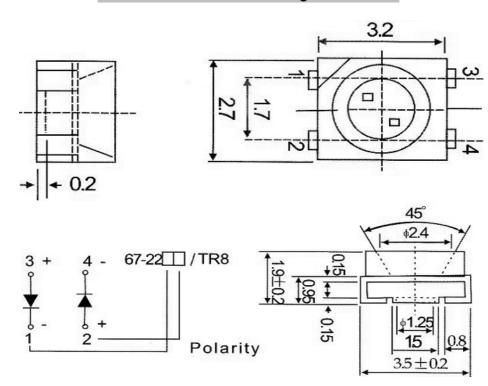




Applications

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

Technical Drawing



Notes:

All dimensions in mm tolerance is ± 0.1 mm unless otherwise noted.

SMT Top View LED Red Green

Part No.: **M11A3009**

Customer:

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	18.11.2010
APPD:	Ping			FINISH	Hui	Sheet	1 from 9









Absolute Maximum Ratings

Item	Symbol	Red	Green	Unit
Power Dissipation	P_{D}	78	108	mW
DC Forward Current	I _F	30	30	mA
Plused Forward Current	I _{FP} *	100	100	mA
Reverse Voltage	V_R		V	
Operating Temperature	T _{OP}	-30	°C	
Storage Temperature	T _{ST}	-40 ~	- 100	°C

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

Electrcal / Optical Characteristics

Ermitting Color		Red	Green		
Material					
Forward Voltage	typ.	2.1	3.1	V_{F}	
Torward voilage	max.	2.6	3.6	V_{F}	
Wavelength	λD	620 ~ 630	520 ~ 530	nm	
_	λP			nm	
typ.	Δλ			nm	
Color Temperature	min.			K	
Color remperature	max.			K	
Luminous Intensity *	min.	220	330	mcd	
Luminous intensity	typ.	300	600	mcd	
Reverse Current	max.		μA		
Viewing Angle	2Θ1/2		120		

^{*} Per NIST standards

SMT Top View LED Red Green

Part No.: M11A3009

Customer:

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	18.11.2010
APPD:	Ping			FINISH	Hui	Sheet	2 from 9

Copyright by EDCON-COMPONENTS

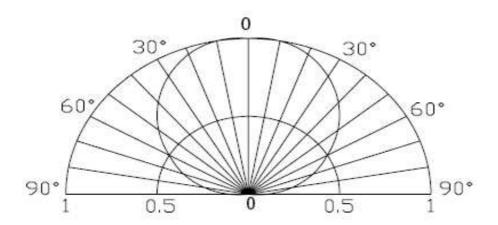
www.edcon-components.com email: info@edcon-components.com







Directive Characteristics



SMT Top View LED
Red Green

Part No.: **M11A3009**

Customer:

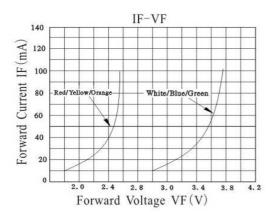
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	18.11.2010
APPD:	Ping			FINISH	Hui	Sheet	3 from 9

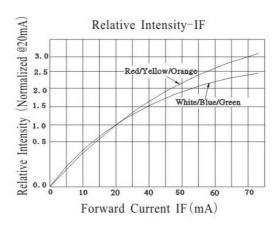


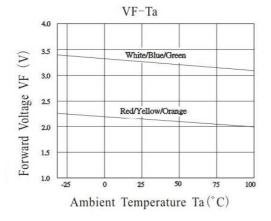


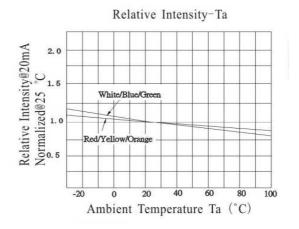


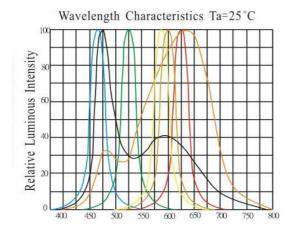
Typical Characteristics

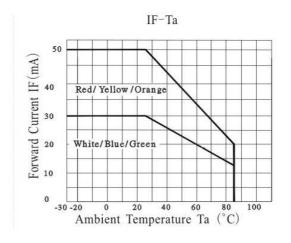












SMT Top View LED								
Red	Green							
Part No.:	M11A3009							
Customer:								

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	18.11.2010
APPD:	Ping			FINISH	Hui	Sheet	4 from 9

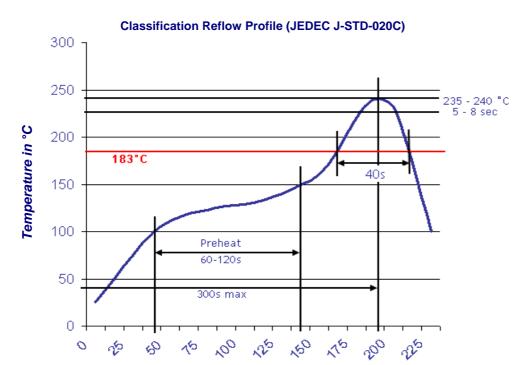






Solder Condition

Lead Free Solder



Time in (sec)

SMT Top View LED
Red Green

Part No.: **M11A3009**

Customer:

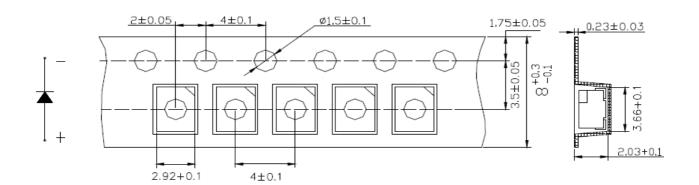
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	18.11.2010
APPD:	Ping			FINISH	Hui	Sheet	5 from 9



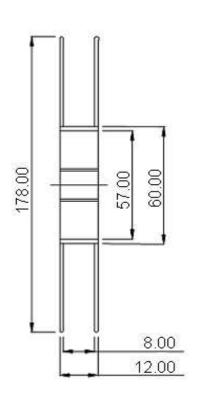


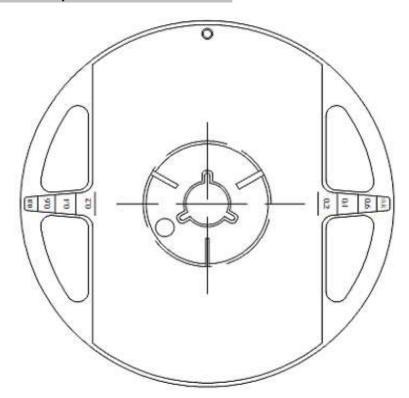


Packing Specifications



Reel Specifications





SMT Top View LED Red Green

Part No.: **M11A3009**

Customer:

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	18.11.2010
APPD:	Ping			FINISH	Hui	Sheet	6 from 9



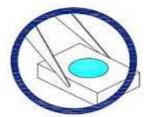




Handling Precautions

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 Red Green

Part No.: **M11A3009**

Customer:

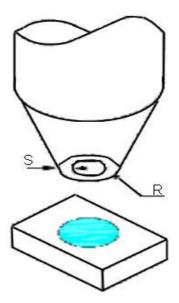
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	18.11.2010
APPD:	Ping			FINISH	Hui	Sheet	7 from 9







- 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
Red Green

Part No.: **M11A3009**

Customer:

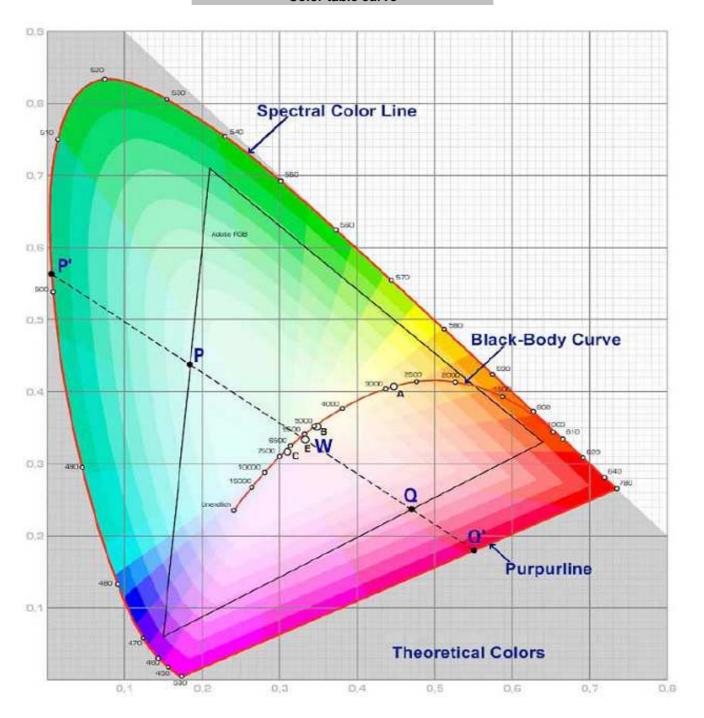
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	18.11.2010
APPD:	Ping			FINISH	Hui	Sheet	8 from 9







Color table curve



SMT Top View LED

Red Green

Part No.: **M11A3009**

Customer:

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	18.11.2010
APPD:	Ping			FINISH	Hui	Sheet	9 from 9