

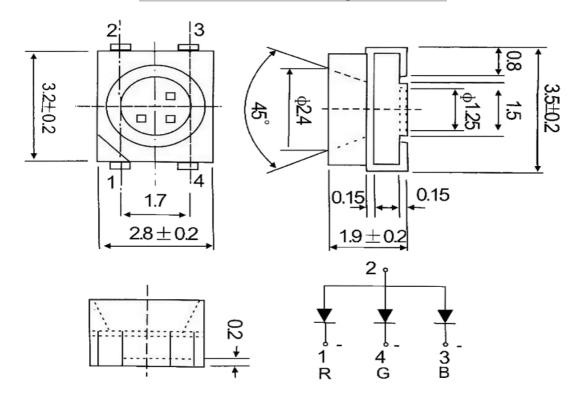




Applications

- 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

Blue Green Red

Part No.: **M11H5005**

Customer:

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	18.11.2010
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Absolute Maximum Ratings

Item	Symbol	Blue	Green	Red	Unit
Power Dissipation	P_{D}	108	90	130	mW
DC Forward Current	I _F	30	30	50	mA
Plused Forward Current	l _{FP} *	100	100	120	mA
Reverse Voltage	V_R		5		V
Operating Temperature	T _{OP}	-3	0°C ~ 85°C		°C
Storage Temperature	T_{ST}	-4(0°C ~ 100°C		°C

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

Electrcal / Optical Characteristics

Ermitting Color		Blue	Green	Red	
Material					
Forward Voltage	typ.	3.1	3.1	2.1	V_{F}
i oi waiti voitage	max.	3.6	3.6	2.6	V_{F}
Wavelength	λD	465 ~ 475	520 ~ 530	620 ~ 630	nm
_	λP				nm
typ.	Δλ				nm
Color Temperature	min.				K
Color remperature	max.				K
Luminous Intensity *	min.	150	330	330	mcd
Luminous intensity	typ.	200	450	500	mcd
Reverse Current	max.				μA
Viewing Angle	2Θ1/2		120		

^{*} Per NIST standards

 SMT Top View LED

 Blue
 Green
 Red

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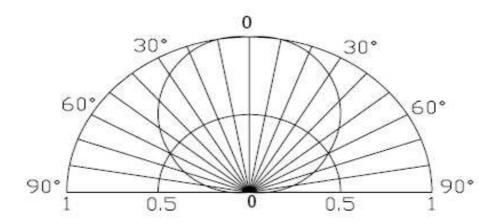
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Directive Characteristics



SMT Top View LED
Blue Green Red

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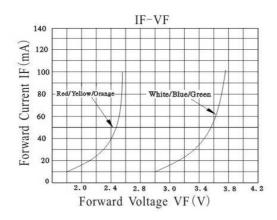
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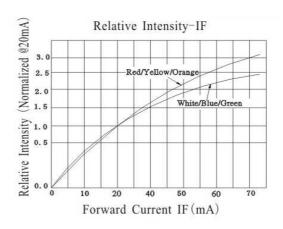


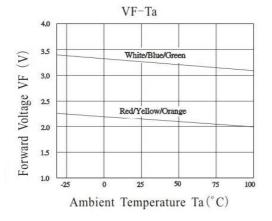


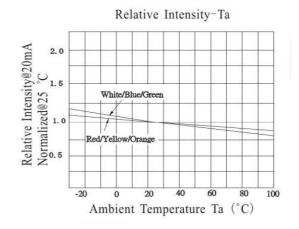


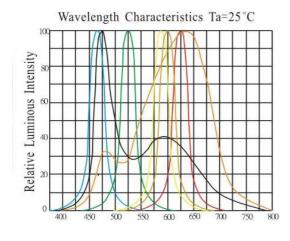
Typical Characteristics

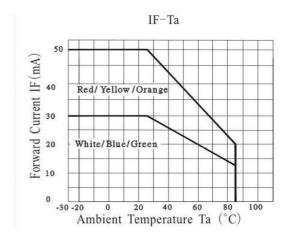












SMT Top View LED									
Blu	ie	Green	Red						
Par	t No.:	M11I	H5005						
Cus	tomer:								
MATL:	Chui	DATE	18.11.2010						
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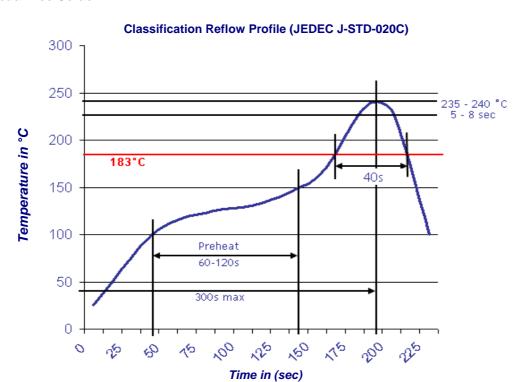






Solder Condition

Lead Free Solder



SMT Top View LED										
В	lue	Green	Red							
Par	t No.:	M11H5005								
Cus	tomer:									
MATL:	Chui	DATE	18.11.2010							
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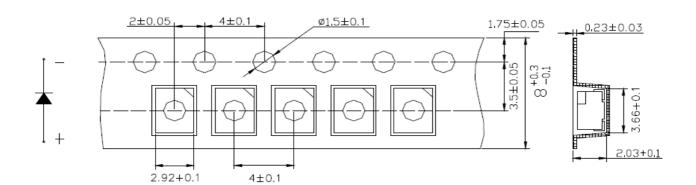
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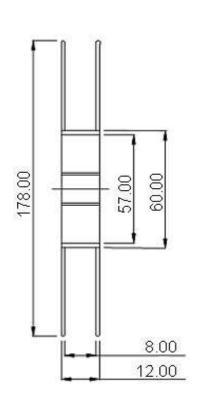


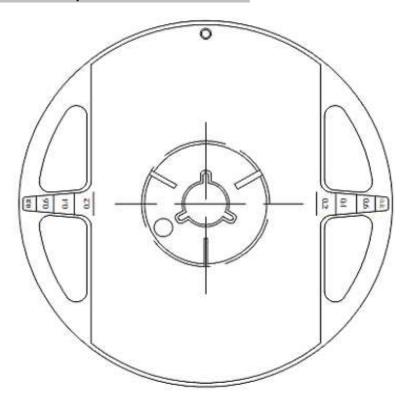


Packing Specifications



Reel Specifications





SMT	Top View LED	
Blue	Green	Red

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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.



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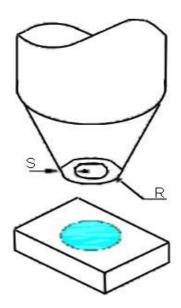
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- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.
- 5. A pliable material is suggested for the nozzle tip to avoid scratching 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.



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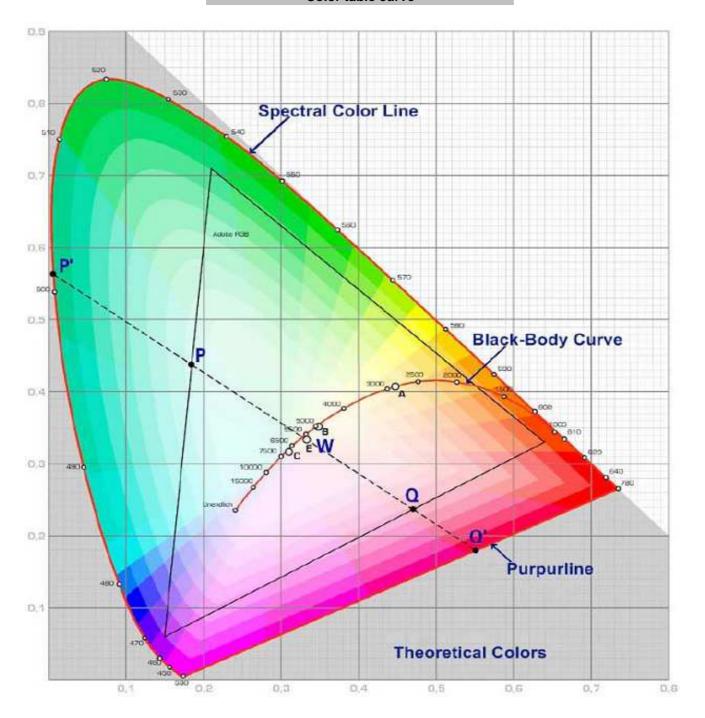
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Color table curve



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