

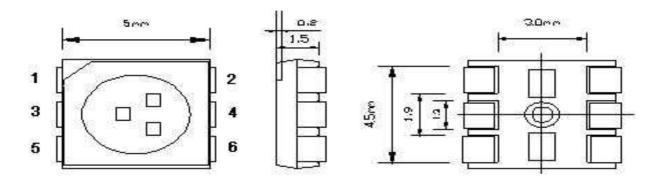


Applications

Interior automotive lighting

 Optical indicators
 Communication Products
 Backlighting
 Toys

Technical Drawing



Recommended Soldering Pattern

Notes :	: All dimensions ± 0.1mm unless			F	SMT To Red	p View LED Green	Blue
				Pai	rt No.:	M11A	6002
				Customer:			
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	22.06.2010
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Absolute Maximum Ratings

ltom	Symbol	AlGalnP	InGaN	Unit		
Item	Symbol	AlGallip	InGaiv	Unit		
Power Dissipation	P _D	-				
DC Forward Current	I _F	-	mA			
Plused Forward Current	I _{FP} *	-	mA			
Reverse Voltage	V _R	-				
Operating Temperature	T _{OP}	-	°C			
Storage Temperature	T _{ST}	-		°C		

* 0.1 msec pulse, 10% duty cycle

Electrcal / Optical Characteristics

I_F=20mA

Ermitting Color		Red	Green	Blue	
Material	AlGalnP		InGaN	InGaN	
Forward Voltage	typ.	1.8	3.0	3.0	V _F
Forward voltage	max.	2.0	3.2	3.4	V _F
Wavelength	λD	620	518	465	nm
-	λP	625	525	470	nm
typ.	Δλ				nm
Color Temperature	min.				K
Color reinperature	max.				K
Luminous Intensity *	min.	1000	1600	1200	mcd
Lummous intensity	typ.	1200	1800	1500	mcd
Reverse Current	max.				μA
Viewing Angle	201/2		120		

* Per NIST standards

				SMT Top View LED			
				Red Green		Blue	
				Pai	t No.:	M11A	6002
				Cus	tomer:		
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Directive Characteristics

				SMT Top View LED				
				F	led	Green	Blue	
				Part No.: M11A6002			6002	
				Cus	tomer:			
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Curvs

				SMT Top View LED				
				F	led	Green	Blue	
				Part No.: M11A6002			6002	
				Cus	tomer:			
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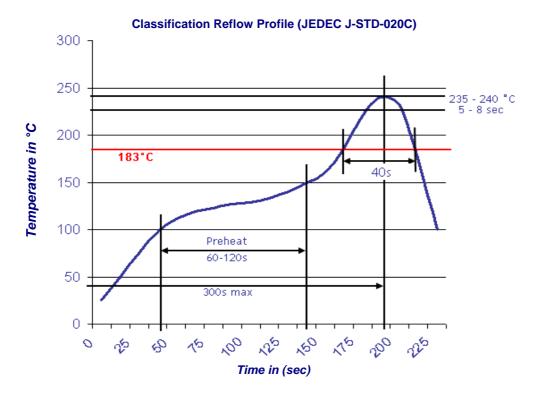
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Solder Condition

Lead Free Solder



				SMT Top View LED			
				Red Green E			Blue
				Part No.: M11A6002			6002
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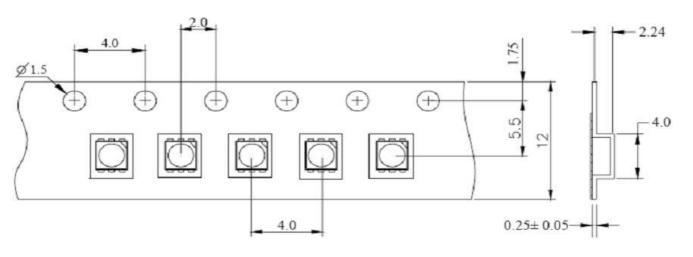
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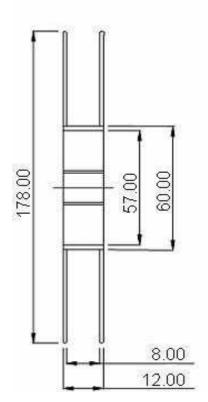


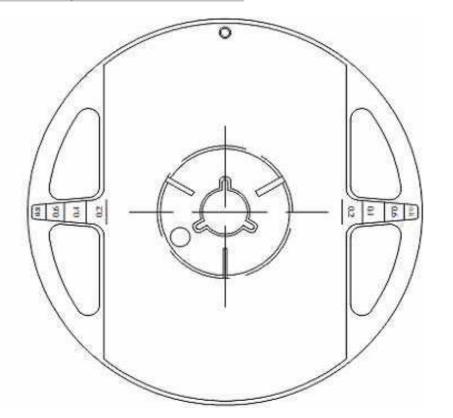


Packing Specifications



Reel Specifications





				SMT Top View LED			
				Red Green			Blue
				Part No.: M11A6002			
				Cus	tomer:		
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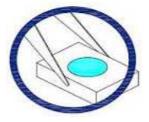




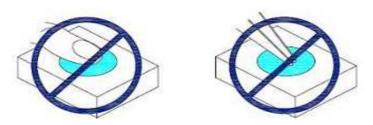
Handling Precautions

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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	Red Green E			Blue	
	Par	rt No.:	M11A6	6002	
	Cus	tomer:			
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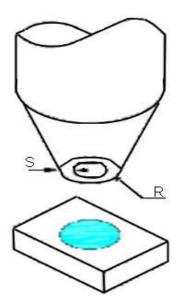
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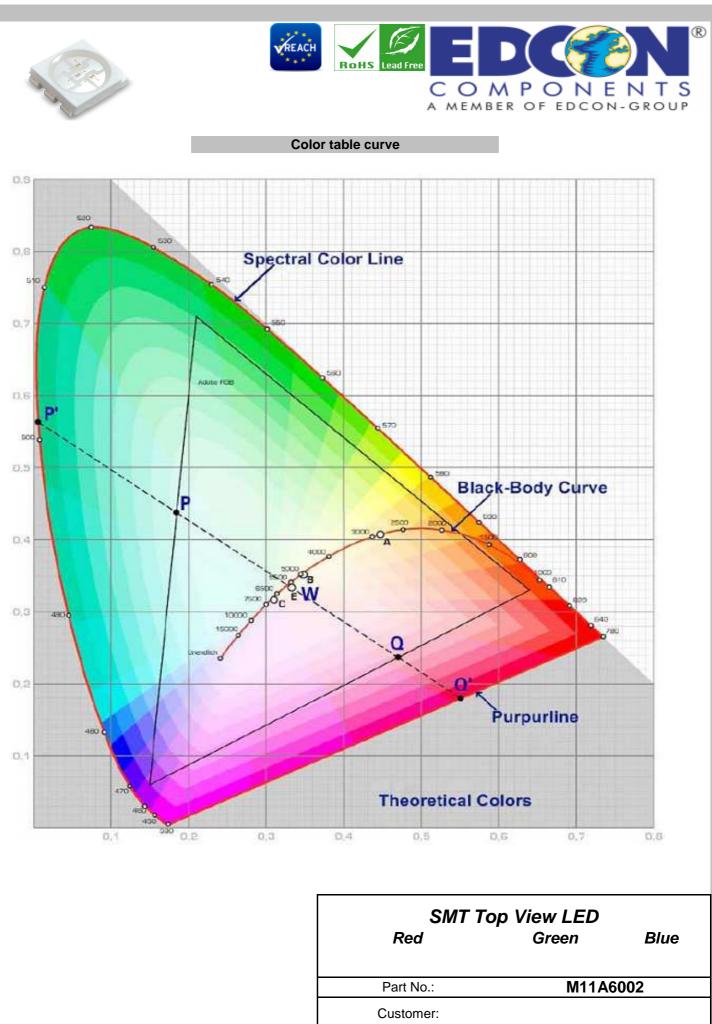




- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.
- 5. A pliable material is suggested for the nozzle tip to avoid scratching or damaging the LED surface during pickup.
- 6.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