

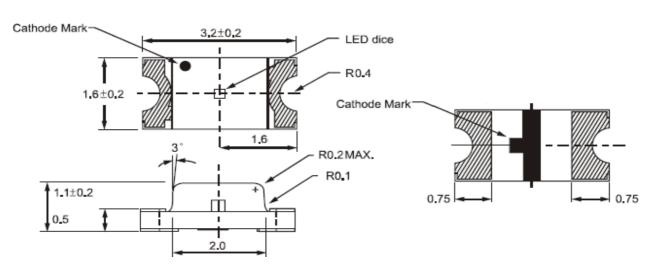


Applications

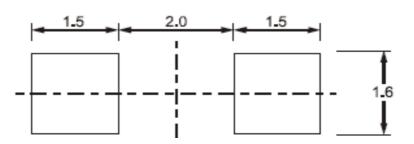
Interior automotive lighting

 Optical indicators
 Communication Products
 Backlighting
 Toys

Technical Drawing



Recommended Soldering Pattern



Notes	: All dimensions ± 0.1mm unle			SMT Chip LED Orange Red			
				Part No.	.: M11	-6003	
			Custome	er:			
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	05.12.2009
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Absolute Maximum Ratings

Ta=25°C

Item	Symbol	AlGaInP	Unit
Power Dissipation	P _D		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}	-25 to 80	°C
Storage Temperature	T _{ST}	-30 to 85	°C

* 0.1 msec pulse, 10% duty cycle

Electrcal / Optical Characteristics

I_F=20mA Ta=25°C

Ermitting Color		Orange Red	
Material		AlGaInP	
Forward Voltage	typ.	2.0	V _F
i orwaru voltage	max.	2.6	V _F
Wavelength	λD	615	nm
-	λP	620	nm
typ.	Δλ		nm
Color Temperature	min.		K
Color remperature	max.		K
Luminous Intensity *	min.	28	mcd
Lummous intensity	typ.	50	mcd
Reverse Current	max.		μA
Viewing Angle	2Θ1/2	120	

* Per NIST standards

		SMT Chip LEI Orange Red)						
					Part No.: M11F6003				
					Custome	er:			
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Directive Characteristics

SMT Chip LED Orange Red

				Part No.	: M1	1F6003			
						r:			
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Curvs

SMT Chip LED Orange Red

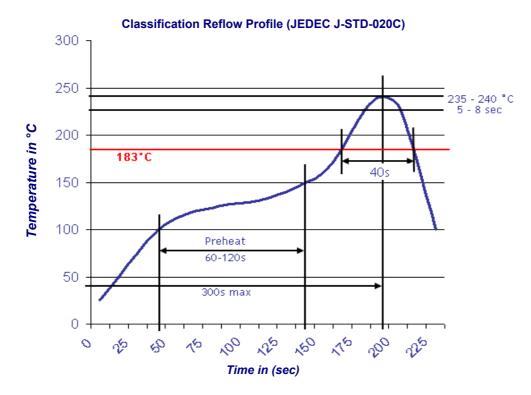
					Part No.	: M1′	1F6003		
Cust					Custome	r:			
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Solder Condition

Lead Free Solder

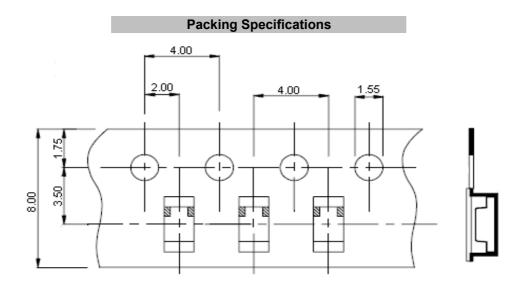


			SMT Chip LEI Orange Red	D		
		Part No	.: M11	M11F6003		
		Custome	er:			
g	MATL:	Chui	DATE	05.12.2009		

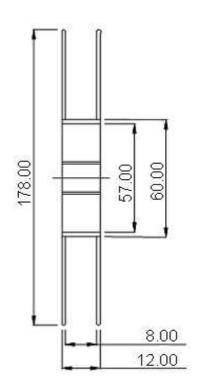
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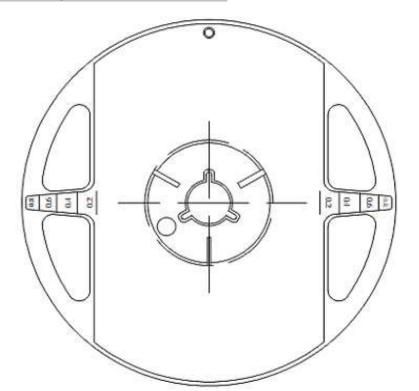






Reel Specifications





					SMT Chip LED Orange Red			
					Part No.: M11F6003		F6003	
					Customer:			
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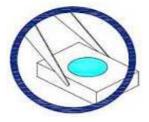




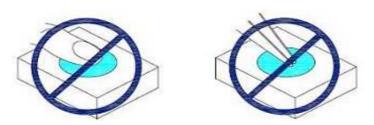
Handling Precautions

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.

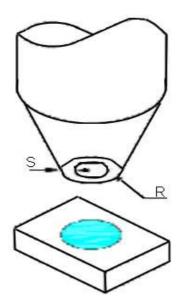


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- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.
- 5. A pliable material is suggested for the nozzle tip to avoid scratching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



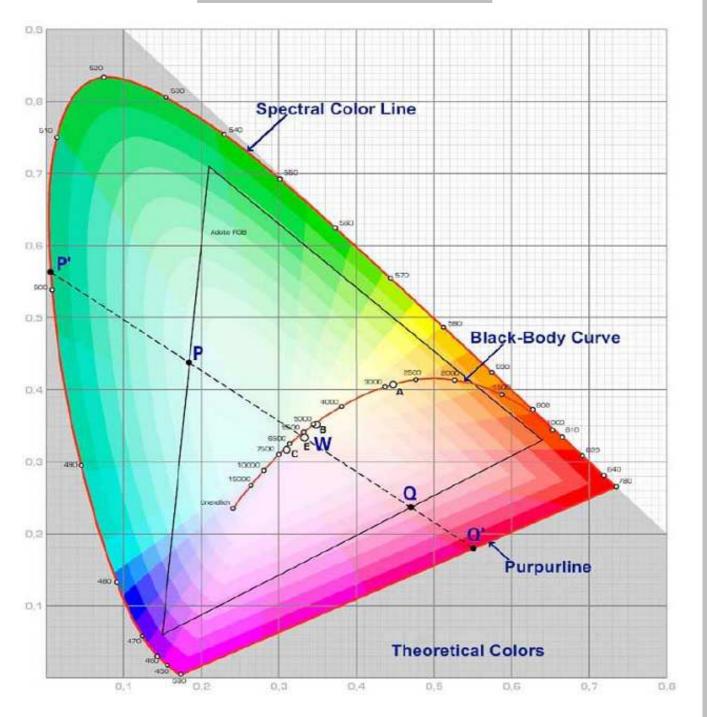
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Color table curve



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