

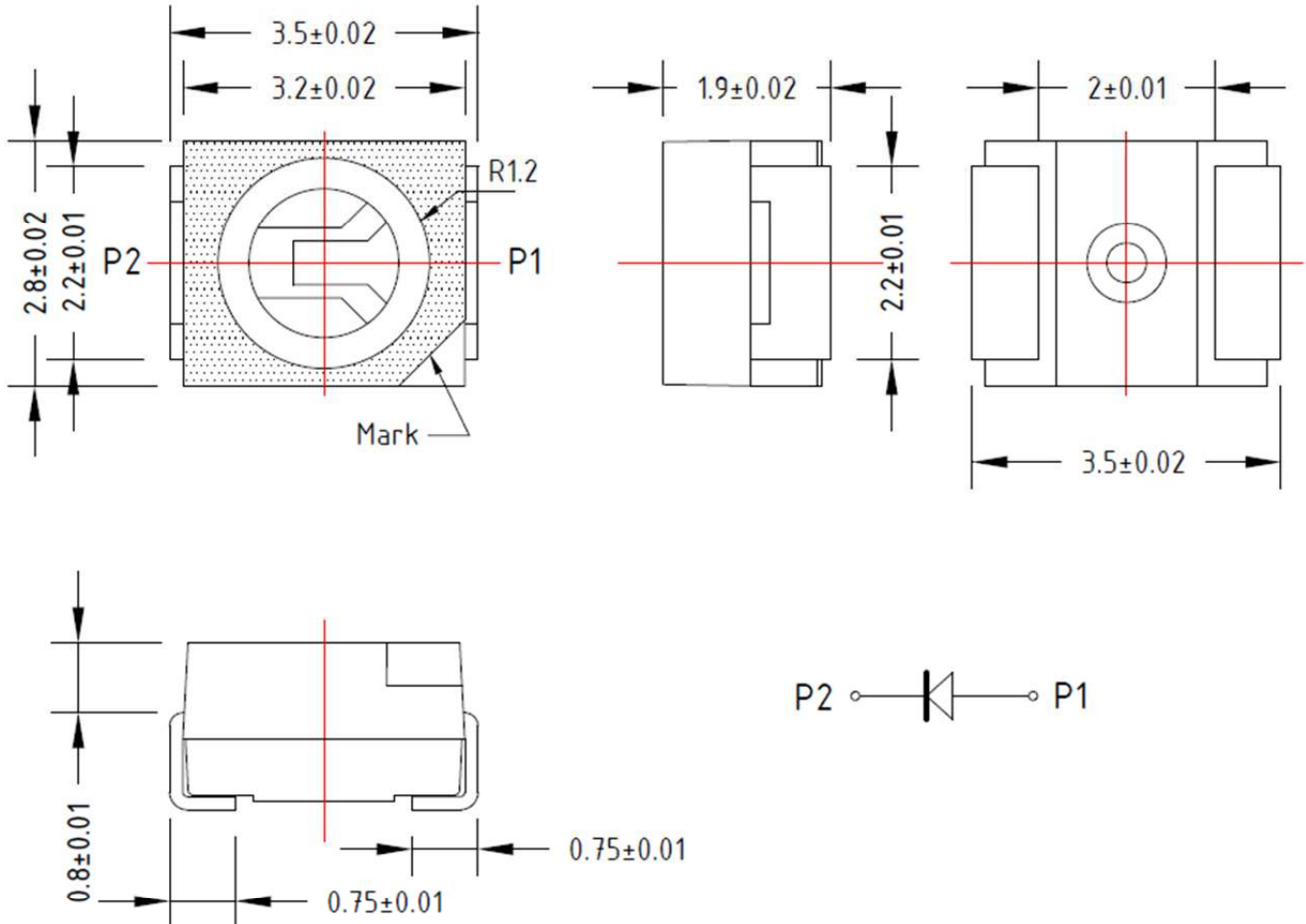


**American Opto Plus LED Corp.**  
**L95MYC-S**  
**3.5 X 2.8 X 1.9mm PLCC2**

**MAIN FEATURES:**

- Low current requirement
- Wide viewing angle
- IR Reflow Soldering
- I.C. compatible

**PACKAGE OUTLINES:**



Chip Material	Chip Emitted	Lens Color	Viewing Angle
AllnGaP/GaAs	Yellow	Clear	120

**NOTES:**

1. All dimensions are in millimeters (inches);
2. Electrical Connection between all Cathodes is Recommended

Version 1.5 Date: 09-04-2012

American Opto Plus LED Corp. 1206 E. Lexington Ave. , Pomona CA 91766 Tel: 909-465-0080 Fax: 909-465-0130 [www.aopled.com](http://www.aopled.com)



**American Opto Plus LED Corp.**  
**L955MYC-S**  
**3.5 X 2.8 X 1.9mm PLCC2**

**MAIN FEATURES:**

- Low current requirement
- Wide viewing angle
- IR Reflow Soldering
- I.C. compatible

## ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Value	Unit
Forward current	I <sub>f</sub>	50	mA
Reverse voltage	V <sub>r</sub>	5	V
Power dissipation	P <sub>d</sub>	120	mW
Operating temperature range	T <sub>op</sub>	-30~+100	°C
Storage temperature range	T <sub>stg</sub>	-40~+100	°C
Peak pulsing current (1/8 duty f= 1kHz)	I <sub>fp</sub>	100	mA

## OPTICAL-ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Wavelength at peak emission	$\lambda$ peak	I <sub>F</sub> = 20mA	--	593	--	nm
Spectral half bandwidth	$\Delta\lambda$	I <sub>F</sub> = 20mA	--	14	--	nm
Dominant wavelength	$\lambda$ dom	I <sub>F</sub> = 20mA	585	590	595	nm
Forward Voltage	V <sub>f</sub>	I <sub>F</sub> = 20mA	--	2.1	2.4	V
Luminous intensity	I <sub>v</sub>	I <sub>F</sub> = 20mA	400	680	1150	mcd
Reverse current	I <sub>r</sub>	V <sub>r</sub> =5V	--	--	50	$\mu$ A



**American Opto Plus LED Corp.**  
**L955MYC-S**  
**3.5 X 2.8 X 1.9mm PLCC2**

**MAIN FEATURES:**

- Low current requirement
- Wide viewing angle
- IR Reflow Soldering
- I.C. compatible

## Luminous Intensity Bin Table

**IF=20mA**

Rank name	Min (mcd)	Max (mcd)
L	400	520
M	520	680
N	680	880
P	880	1150

※ Tolerance for each bin limit is  $\pm 15\%$

## Color Bin Table

**IF=20mA**

Rank name	Min (nm)	Max (nm)
1	585	587.5
2	587.5	590
3	590	592.5
4	592.5	595

※ Tolerance for each bin limit is  $\pm 1\text{nm}$

**Notes:**

1. One delivery will include several color ranks and Iv ranks of products.  
The quantity-ratio of the different rank is decided by AOP.
2. Bin Name typed on the label: IV Rank + Color Rank.  
For Example, Bin L2 Means IV: 400~520mcd and Color: 587.5~590nm.
3. AOP has the right to update the information without notice.  
Please double confirm the spec details before an order.



# American Opto Plus LED Corp.

## L955MYC-S

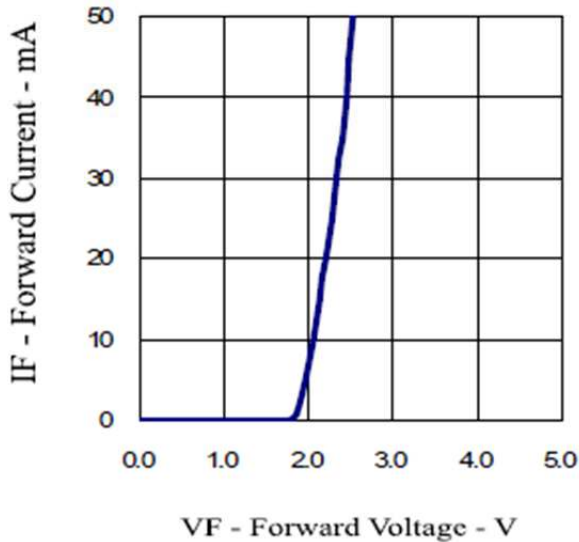
3.5 X 2.8 X 1.9mm PLCC2

### MAIN FEATURES:

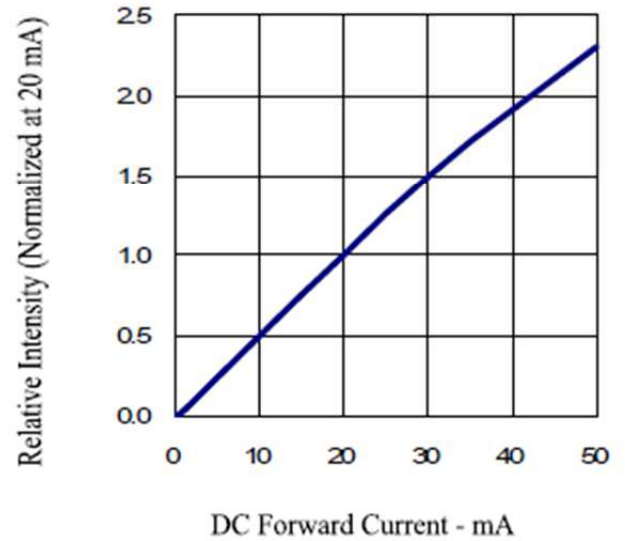
- Low current requirement
- Wide viewing angle
- IR Reflow Soldering
- I.C. compatible

## OPTICAL CHARACTERISTIC CURVES:

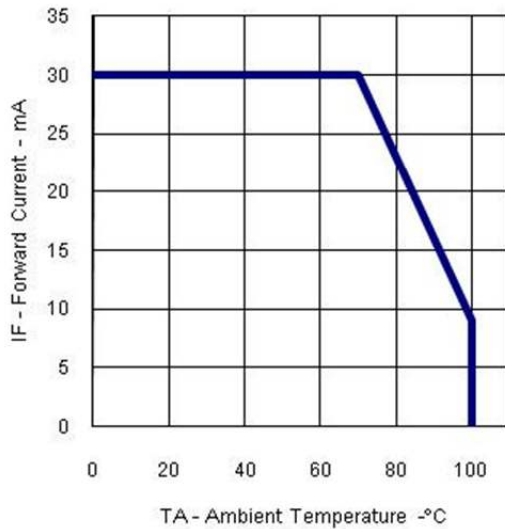
### Forward Current vs. Forward Voltage



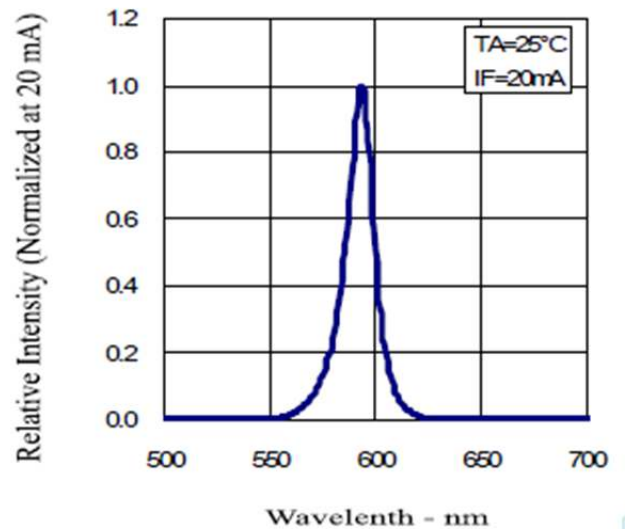
### Relative Intensity vs. Forward Current



### Forward Current vs. Ambient Temperature



### Relative Intensity vs. Wavelength





# American Opto Plus LED Corp.

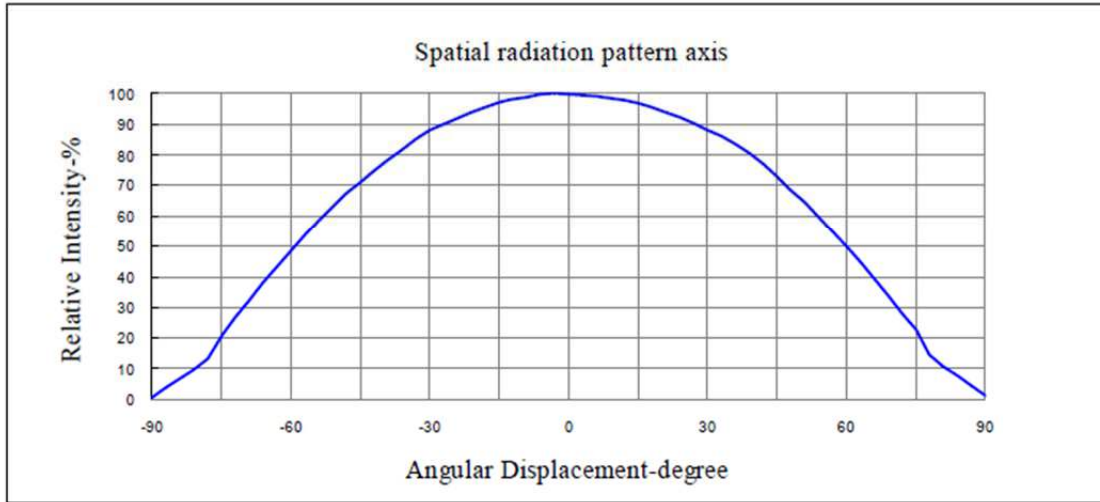
## L95MYC-S

3.5 X 2.8 X 1.9mm PLCC2

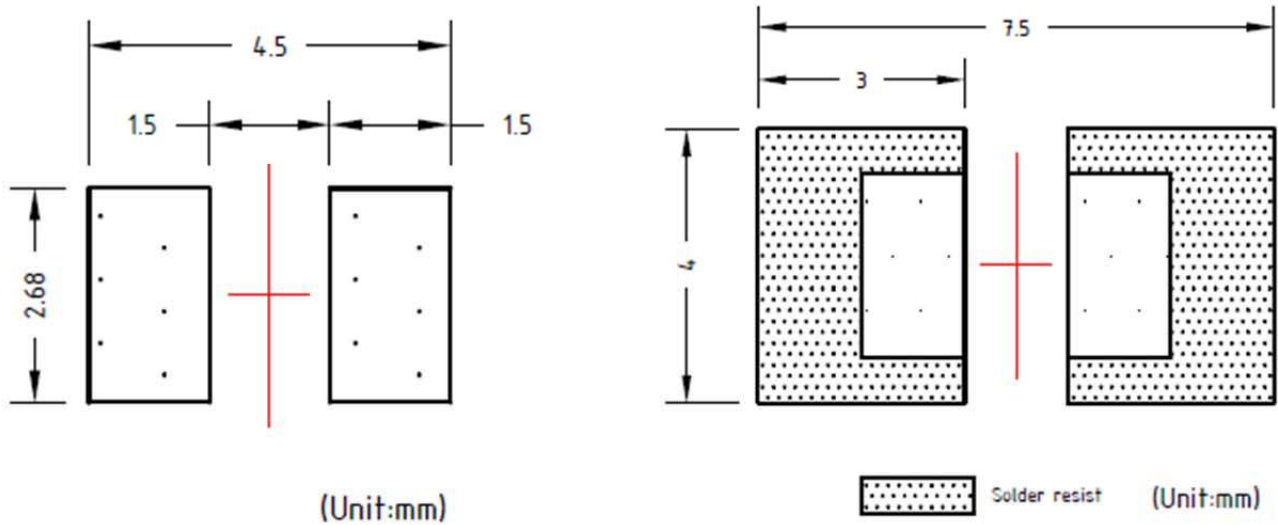
### MAIN FEATURES:

- Low current requirement
- Wide viewing angle
- IR Reflow Soldering
- I.C. compatible

## Radiation Pattern



## Recommended Soldering Pad Pattern



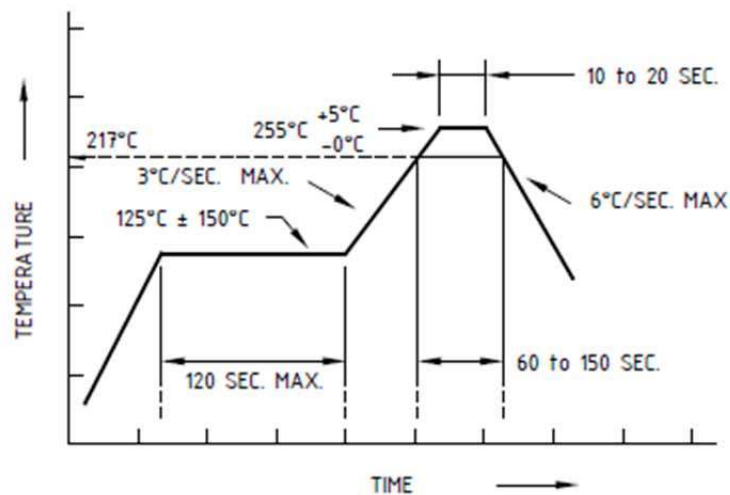
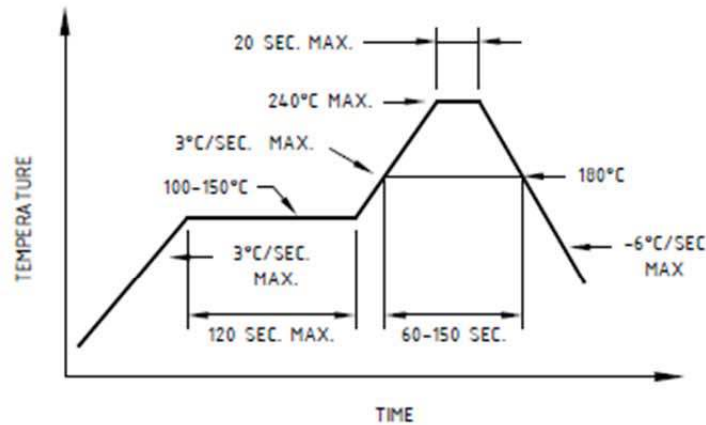


**American Opto Plus LED Corp.**  
**L955MYC-S**  
**3.5 X 2.8 X 1.9mm PLCC2**

**MAIN FEATURES:**

- Low current requirement
- Wide viewing angle
- IR Reflow Soldering
- I.C. compatible

**Soldering Conditions:**



- Repairing should not be done after the LEDs have been soldered. When repairing is unavoidable, a double-head soldering iron should be used. It should be confirmed beforehand whether the characteristics of the LEDs will or will not be damaged by repairing.
- Reflow soldering should not be done more than two times.
- When soldering, do not put stress on the LEDs during heating.
- After soldering, do not warp the circuit board.



# American Opto Plus LED Corp.

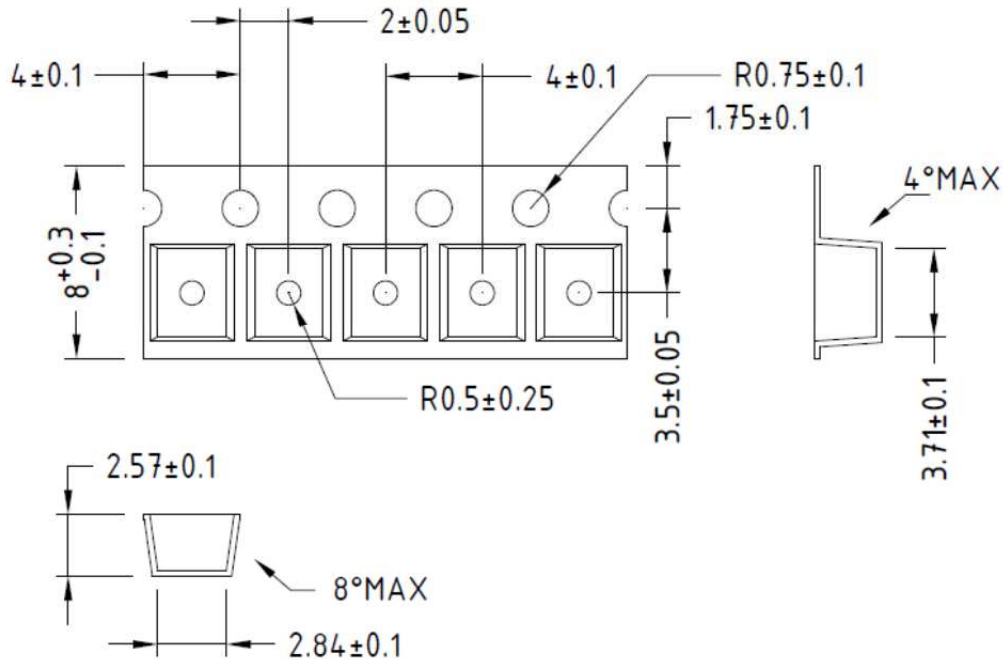
## L95MYC-S

3.5 X 2.8 X 1.9mm PLCC2

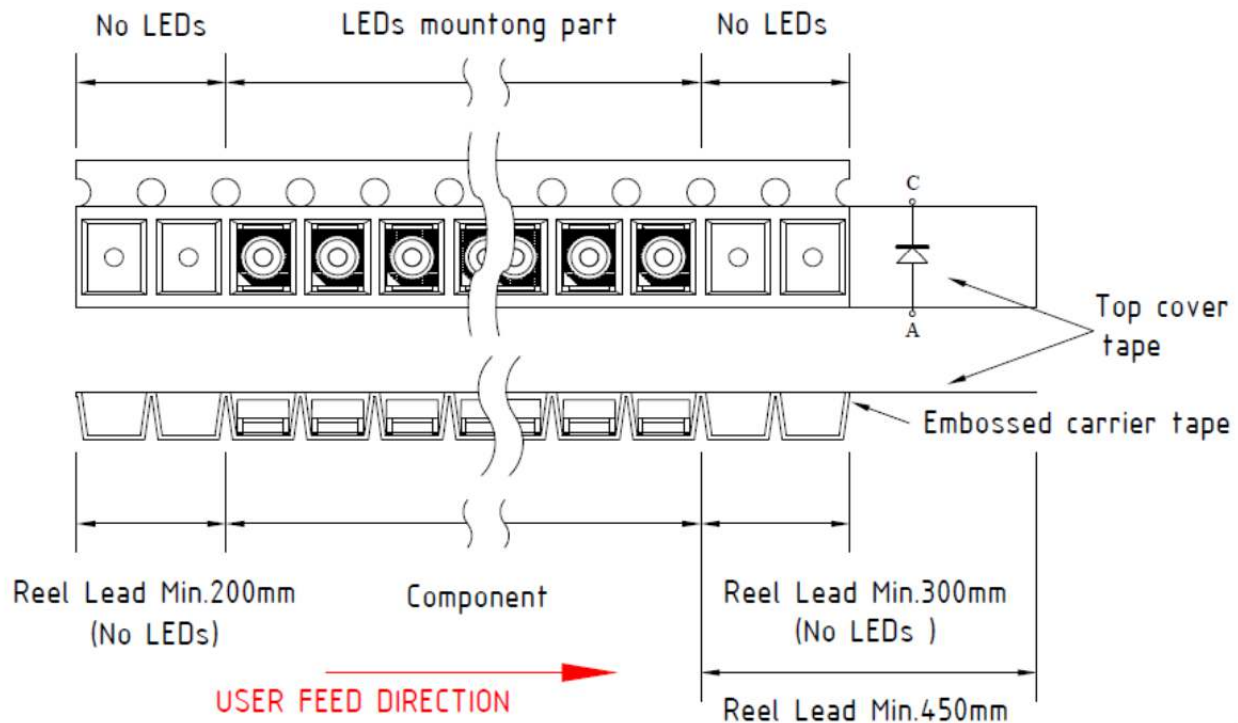
### MAIN FEATURES:

- Low current requirement
- Wide viewing angle
- IR Reflow Soldering
- I.C. compatible

### Tape Dimension



### Tape Leader and Trailer Dimension



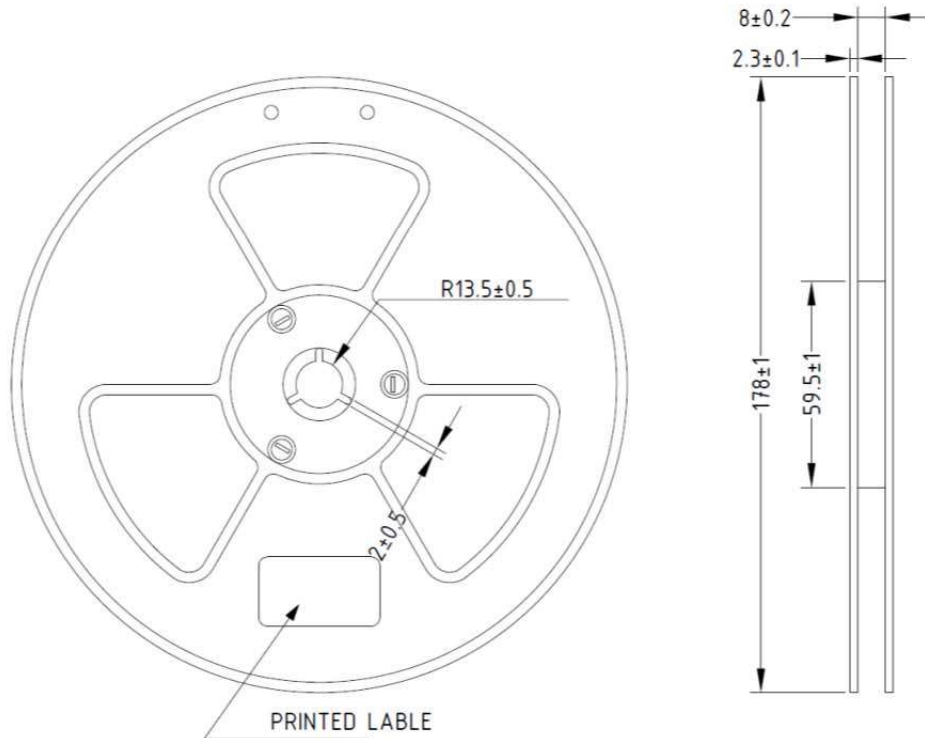


**American Opto Plus LED Corp.**  
**L955MYC-S**  
**3.5 X 2.8 X 1.9mm PLCC2**

**MAIN FEATURES:**

- Low current requirement
- Wide viewing angle
- IR Reflow Soldering
- I.C. compatible

## Reel Dimension



Note: Baking is required under the following conditions:

The pack has been opened for more than four weeks.

Baking recommended conditions:

$60 \pm 5$  °C for 20 hours.





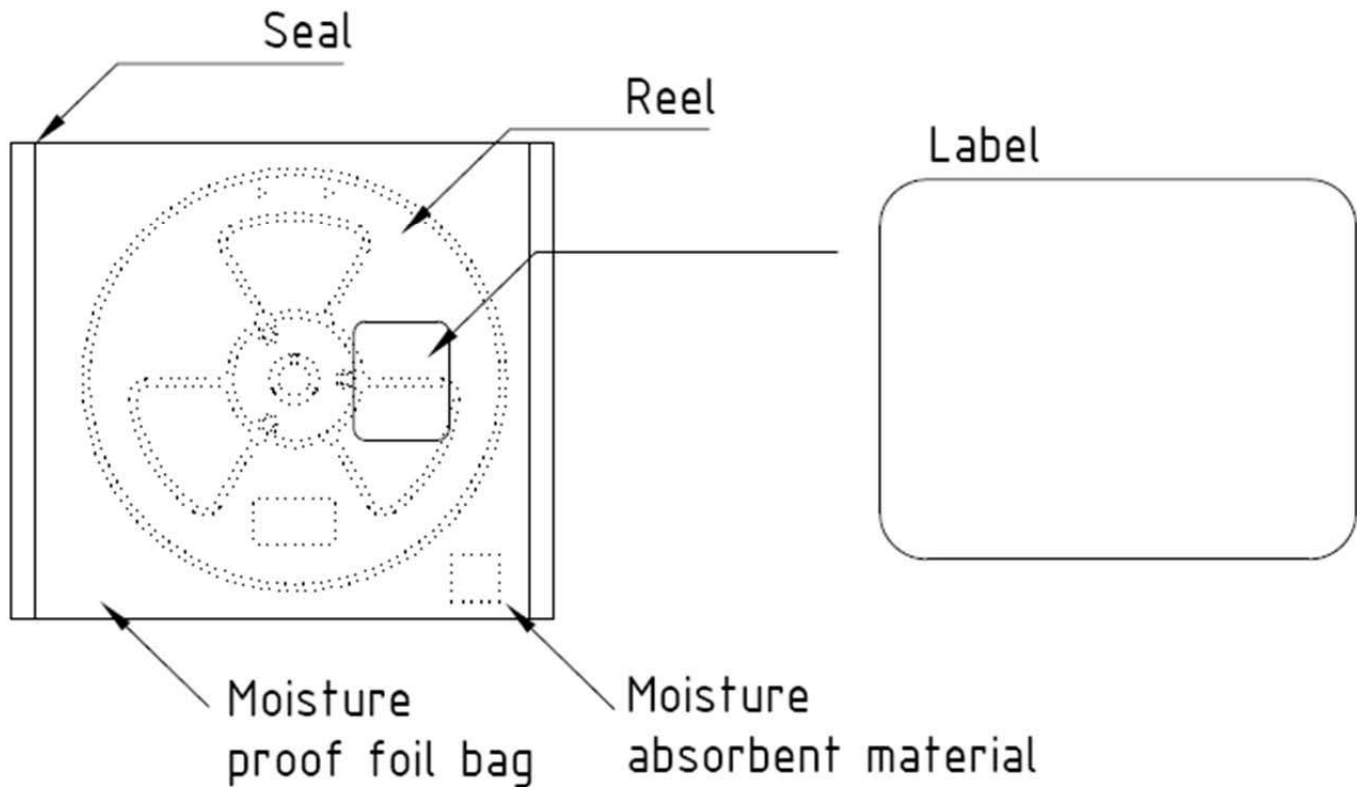
**American Opto Plus LED Corp.**  
**L955MYC-S**  
**3.5 X 2.8 X 1.9mm PLCC2**

**MAIN FEATURES:**

- Low current requirement
- Wide viewing angle
- IR Reflow Soldering
- I.C. compatible

## Packaging Specification

The reel and moisture absorbent material are put in the moisture proof foil bag and then heat sealed.



The LEDs are packed in cardboard boxes after taping.

Please refer to figure's page.

The label on the minimum packing unit shows; Part Number, Ranking, Quantity

- In order to protect the LEDs from mechanical shock, we pack them in cardboard boxes for transportation.
- The LEDs may be damaged if the boxes are dropped or receive a strong impact against them, so precautions must be taken to prevent any damage.
- The boxes are not water resistant and therefore must be kept away from water and moisture.