

WB-3535RGB3FC120-OGVCND34-03

PRODUCT SPECIFICATION

Features:

- ◆Excellent transiting heat from LED chip operating under 350mA
- ◆High luminous output
- ◆No UV

Chip Material:

- ◆Red: AlGaInP
- ◆Green: GaNIn
- ◆Blue: GaNIn

Lens Color:

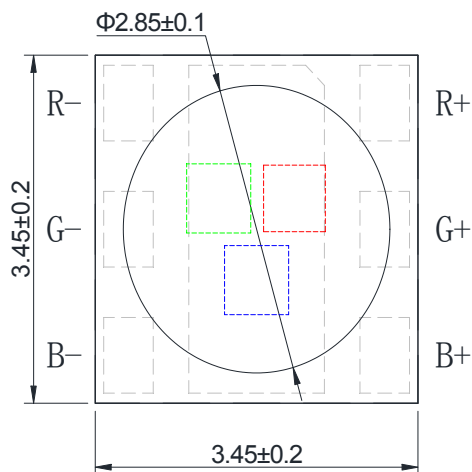
- ◆Water clear

Applications:

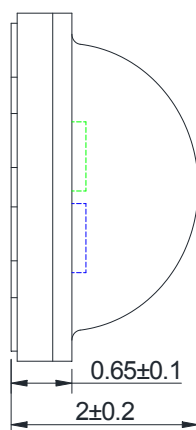
- ◆Stage lighting
- ◆Garden lighting
- ◆Landscape Lighting

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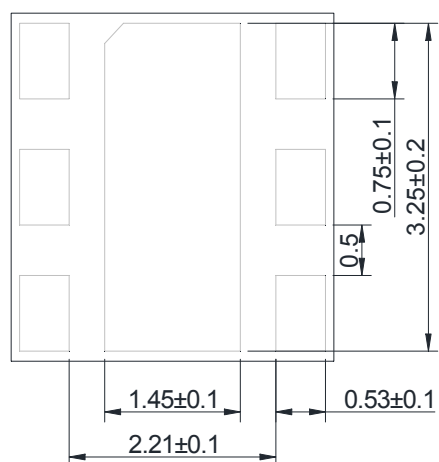
Package Dimensions:



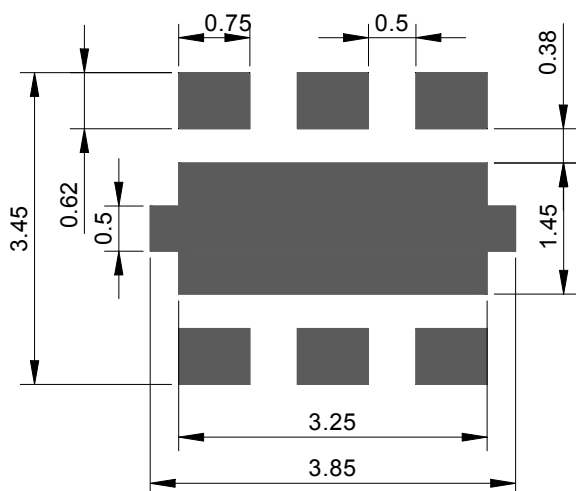
Top view



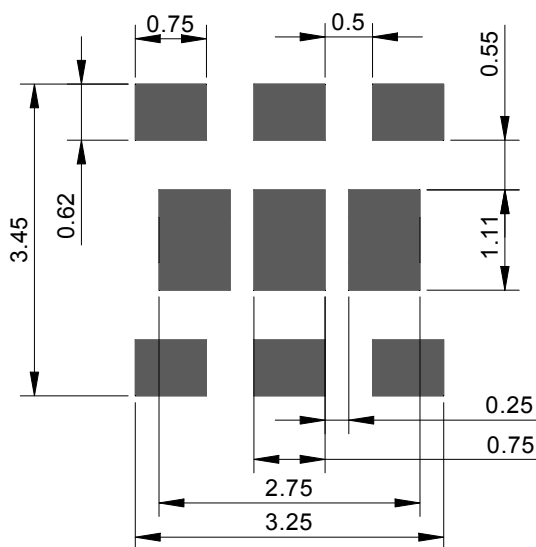
Side view



Bottom view



Recommended solder pad



Recommended stencil pattern

Notes:

- 1.All dimensions are in millimeters .
- 2.Tolerances unless otherwise mentioned are ± 0.1 mm .

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Absolute Maximum Ratings (Tc=25℃)

Parameter	Symbol		Max Ratings	Unit
Forward Current	IF		350	mA
Reverse Voltage	VR		5	V
Power Dissipation	PD	R	910	mW
		G	1260	
		B	1260	
Junction Temperature	Tj	R	115	℃
		G	150	
		B	150	
Electrostatic Discharge Threshold (ESD)	ESD		ESD sensitive device	V
Storage Temperature	Tstg		-40~70	℃
Operation Temperature	Topr		-40~100	

Notes:

- 1.Specifications are subject to change without notice.
- 2.Under the stipulated Characteristics parameters above, the life span of the LED is more than 50,000hours.
- 3.The data on this specification is for reference only and the actual data is in accordance with the acknowledgment.
- 4.Precautions for ESD:
 STATIC SHIELD Electricity and surge damages the LED. It is recommended to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.

Electrical Optical Characteristics (Tc=25°C)

Parameter	Symbol	Condition	Emitting Color	Min.	Typ.	Max.	Units
Luminous Flux	ϕ_v	If=350mA	R	40	55	60	lm
			G	60	75	85	
			B	20	26	32	
Dominant Wavelength	λ_d		R	619	622	625	nm
			G	518	523	528	
			B	465	470	475	
Peak-emission Wavelength	λ_p		R	629	632	635	nm
			G	511	516	521	
			B	460	465	470	
Spectral Line Half-Width	$\Delta\lambda$		R	10	15	20	nm
			G	35	40	45	
			B	20	25	30	
Forward Voltage	V_f		R	2.0	2.2	2.6	V
			G	3.1	3.3	3.6	
			B	3.0	3.3	3.6	
Reverse Current	I_R	$V_R=5V$	R	—	—	5	μA
			G	—	—	5	
			B	—	—	5	
			S	—	—	5	
Viewing Angle at 50 % IV	$2\theta_{1/2}$	—	—	—	120	—	Deg
Thermal Resistance Junction to Case	$R_{\theta J-C}$	—	R	—	14	—	K/W
			G	—	14	—	
			B	—	14	—	
			Total thermal resistance	—	7.5	—	
Temperature Coefficient of Voltage	$V\Delta F/T$	If=350mA	R	—	-2.7	—	mV/°C
			G	—	-3.9	—	
			B	—	-1.6	—	

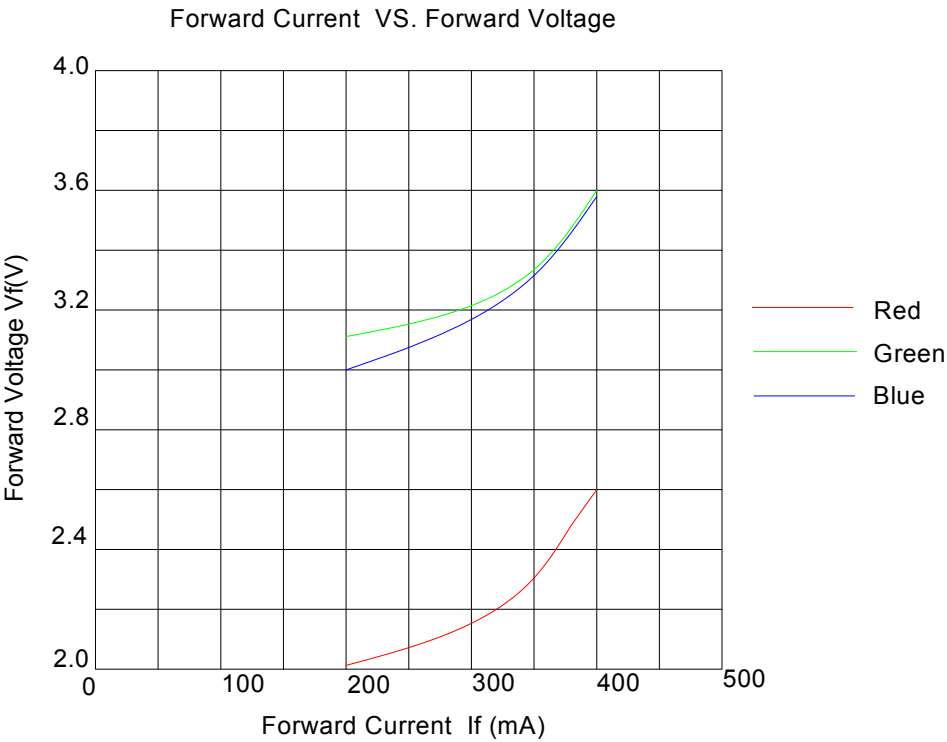
Notes:

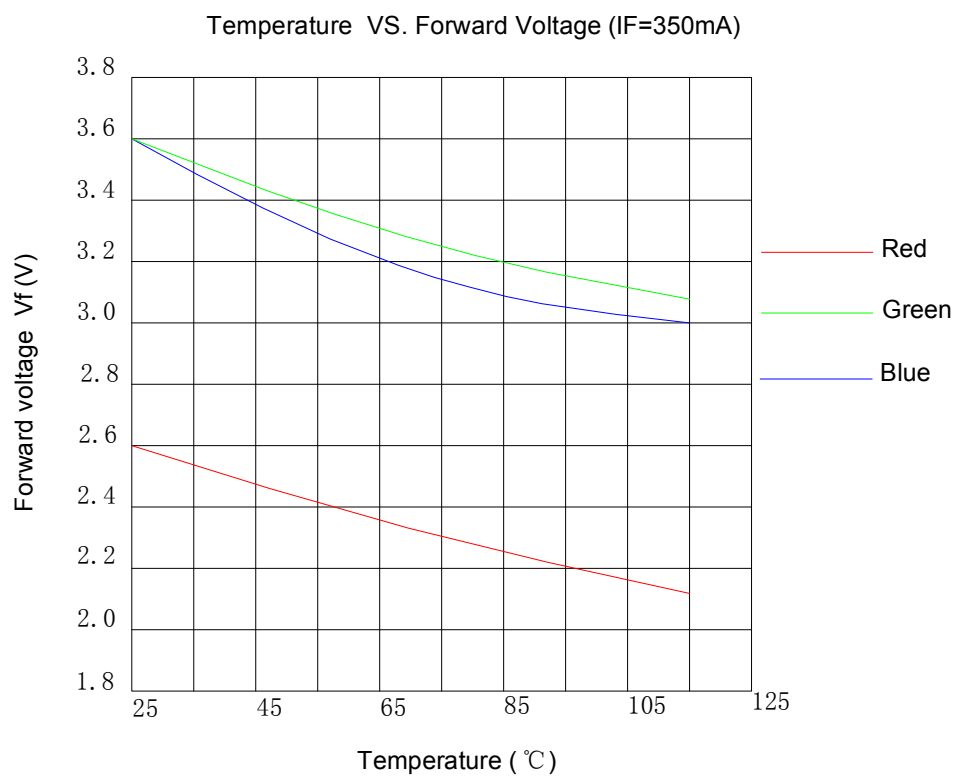
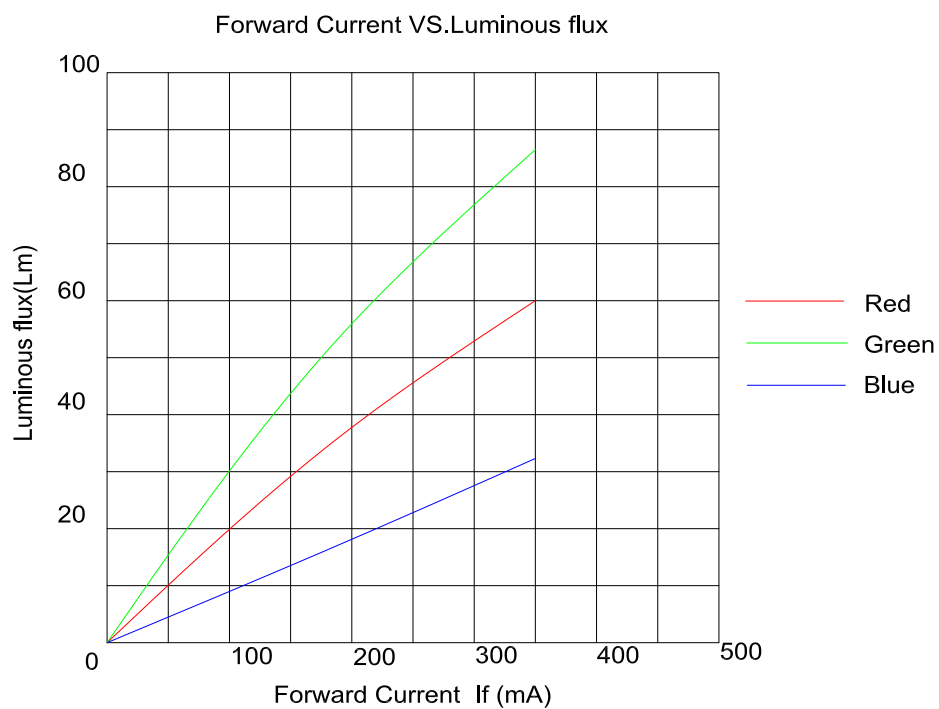
1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.

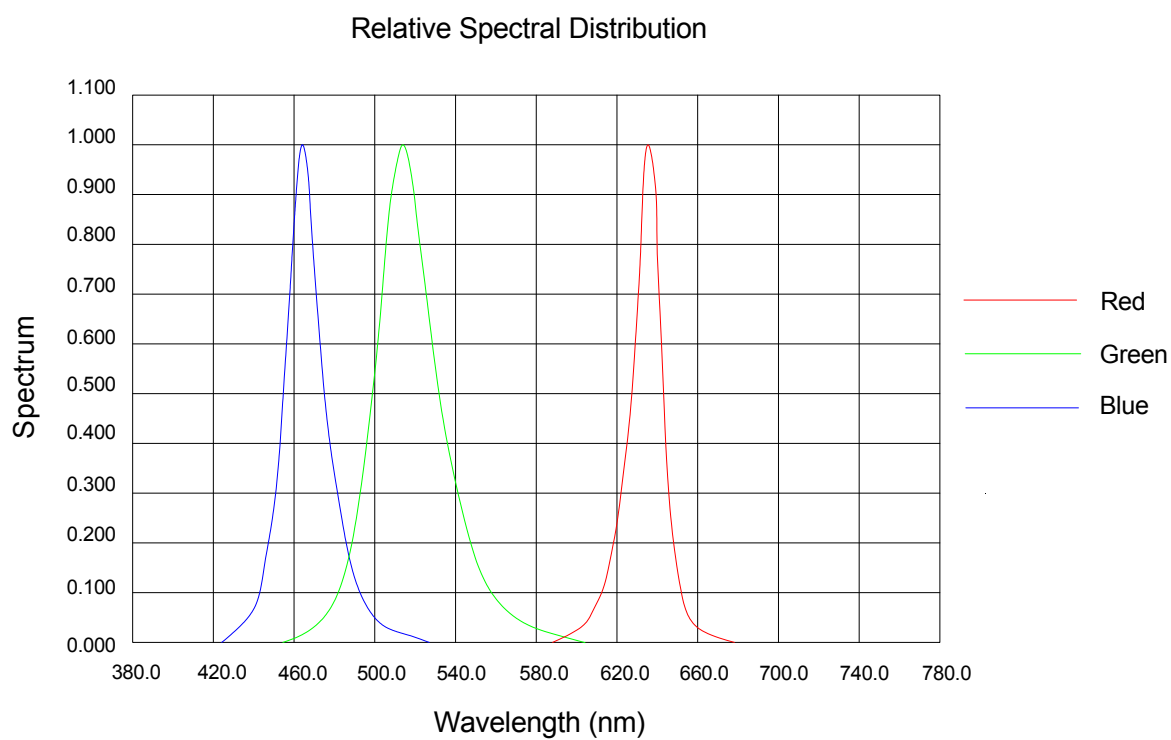
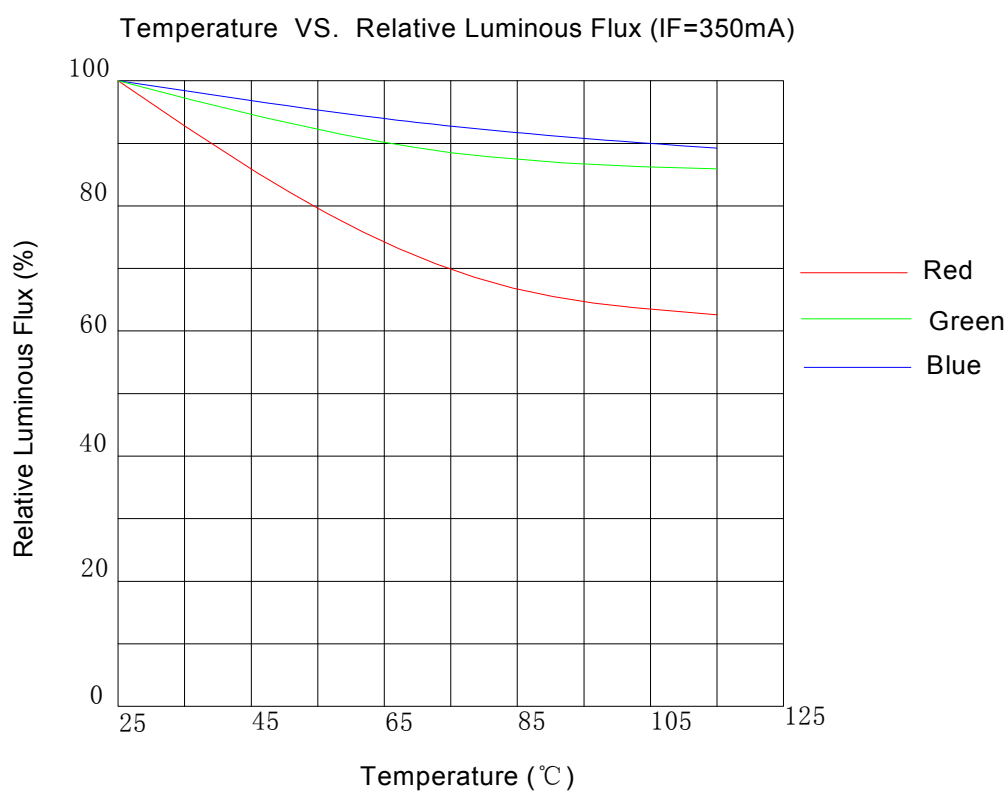
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3.The dominant wavelength (λ_d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
- 4.Luminous flux measurement tolerance: $\pm 15\%$.
- 5.Forward voltage measurement tolerance: $\pm 0.15V$.

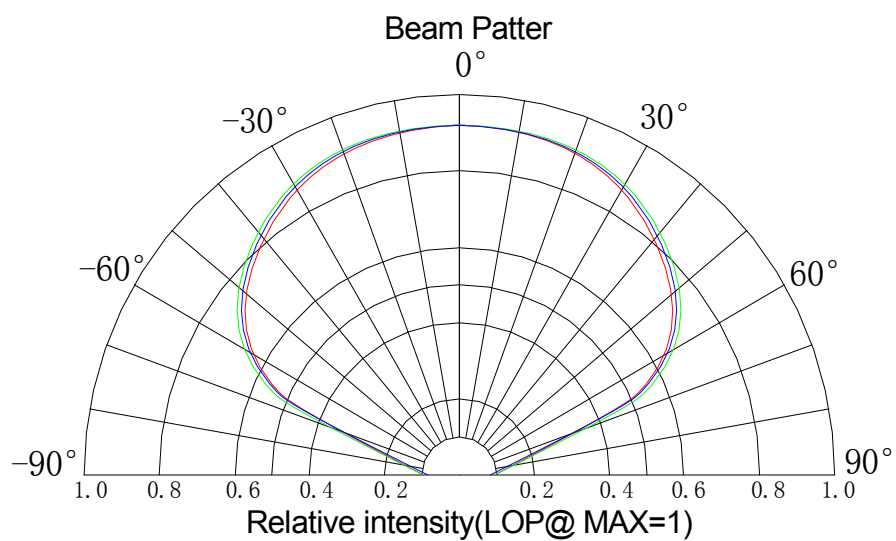
Typical Electrical/Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)









Notes:

1. $2\theta_{1/2}$ is the off axis angle from lamp centerline where the luminous intensity is 1/2 of the peak value.
2. View angle tolerance is $\pm 5^\circ$.

Usage Precautions

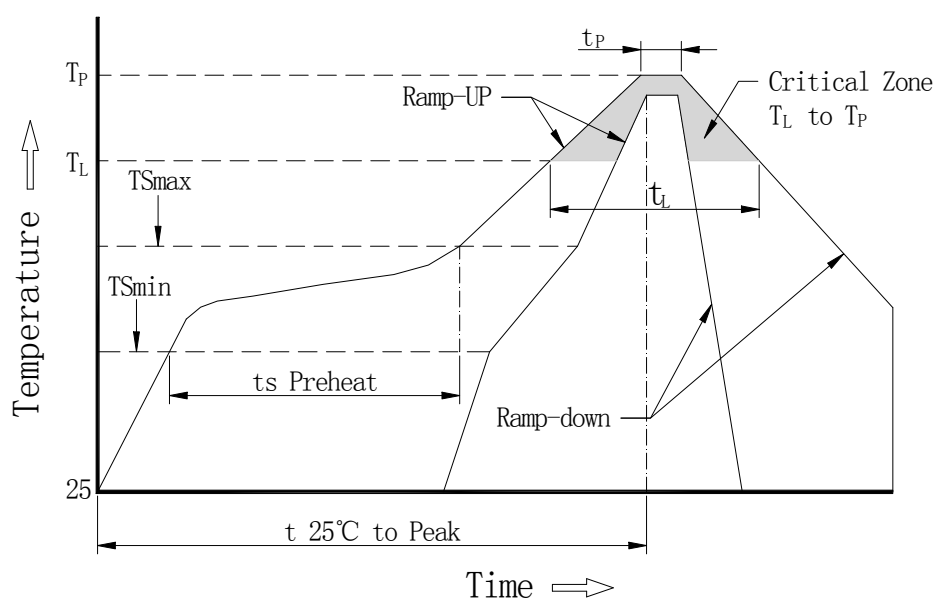
Storage Environment Condition

Temperature: 5°C ~ 30°C (41°F ~ 86°F)

Humidity: 60% RH Max.

Soldering Condition

Use the conditions shown in the figure below.



Profile Feature	Lead-Based Solder
Average Ramp-Up Rate (Tsmax to Tp)	3°C/second max.
Preheat: Temperature Min (Tsmin)	100°C
Preheat: Temperature Max (Tsmax)	150°C
Preheat: Time (Tsmin to Tsmax)	60-120 seconds
Time Maintained Above: Temperature (TL)	183°C
Time Maintained Above: Time (TL)	60-150 seconds
Peak/Classification Temperature (Tp)	215°C
Time Within 5°C of Actual Peak Temperature (Tp)	10-30 seconds
Ramp-Down Rate	6°C/second max.
Time 25°C to Peak Temperature	6 minutes max.

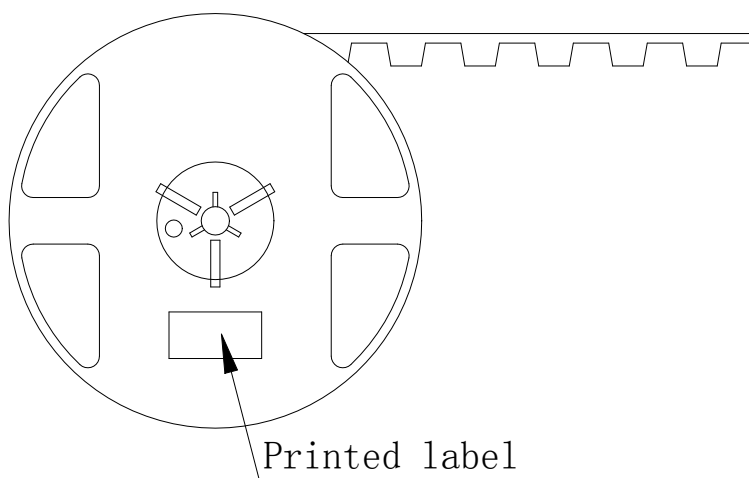
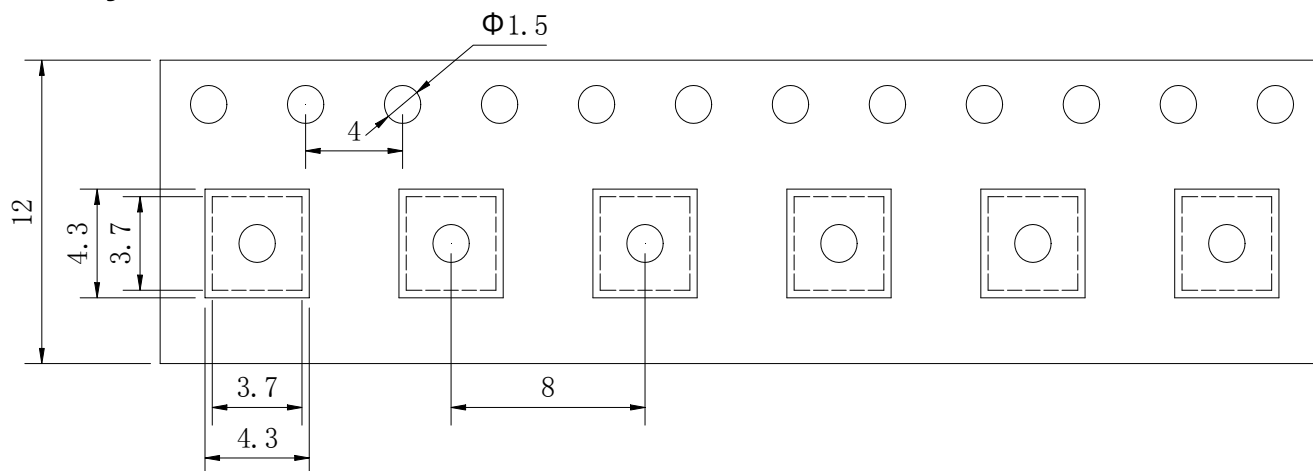
Note:

All temperatures refer to topside of the package, measured on the package body surface.

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Dimensions For Cannulation And Packaging

Quantity: 1000PCS



Notes:

1. All dimensions are in millimeters.
2. Tolerances are ± 2.0 mm unless otherwise noted.
3. The products are packaged together with silica gel, Transport, not to the weight of welding LED light-emitting area, As a result of the weight of LED light-emitting zone in the quality of, Irresponsible of the Company.

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