TX-6070RGBYLWP25FC120-NUVCNG-02A

PRODUCT SPECIFICATION

Features:

◆Excellent transiting heat from LED chip operating under 1000 mA

◆High luminous output

◆Encapsulated materials are environmentally certified and meet environmental requirements.

Chip Material:

◆Red:AlInGaP

◆Green: GaInN

◆Blue:GaInN

◆ Yellow:AlInGaP

◆ Lime:GaInN

◆ White:GaInN

◆Purple:GaInN

Emitting Color:

◆Red

◆Green

◆Blue

◆ Yellow

◆Lime

◆ White

◆Purple

Applications:

◆Auxiliary lighting

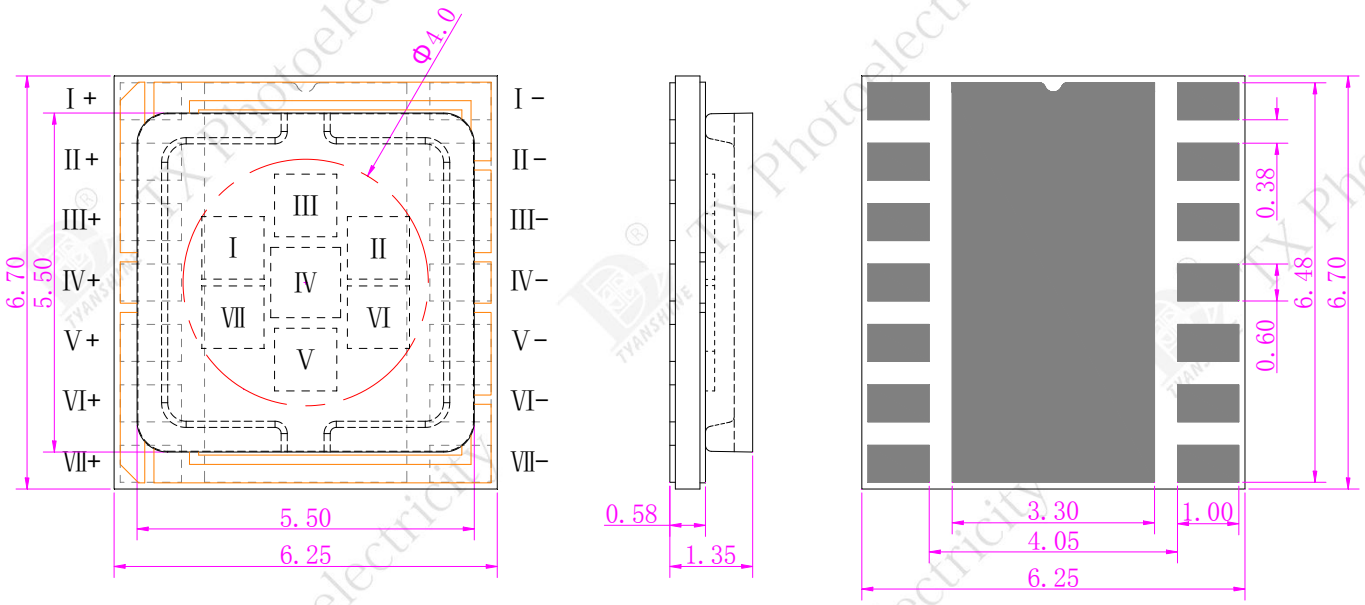
◆Ambient lighting

◆Architectural lighting

◆Entertainment lighting

◆Stage lighting

Package Dimensions:



Ⅰ:Red Ⅱ：Blue Ⅲ：Lemon Ⅳ：Purple Ⅴ：White Ⅵ：Green Ⅶ：Yellow.

Notes:

1.All dimensions are in millimeters .

2.Tolerances unless otherwise mentioned are ±0.1mm .

Absolute Maximum Ratings (Tc=25℃)

Parameter	Symbol		Max Ratings	Unit
Forward Current	IF		1000	mA
Reverse Voltage	V_R		Not designed for reverse operation	V
Power Dissipation	P_D	R	3200	mW
		G	3600	
		B	3600	
		Y	2800	
		L	3800	
		W	3800	
		P	3900	
Junction Temperature	Tj	R	115	℃
		G	150	
		B	150	
		Y	150	
		L	150	
		W	150	
		P	150	
Electrostatic Discharge Threshold (ESD)	ESD		2000	V
Storage Temperature	T_{stg}		-40~70	℃
Operation Temperature	T_{opr}		-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=1000mA	R	85	105	—	lm
			G	205	255	—	
			B	38	50	—	
			Y	60	80	—	
			L	250	300	—	
			W	250	300	—	
			P	3	3.5	—	
Radiant Flux	Φe		P	1000	1500	—	mW
Dominant Wavelength	λd		R	620	622	625	nm
			G	520	525	530	
			B	450	455	460	
			Y	592	595	597	
			P	395	400	405	
Correlated Colour Temperature	CCT		L	3850	3900	4000	K
			W	6000	6300	6800	
Peak-emission Wavelength	λp		R	630	635	640	nm
			G	510	515	520	
			B	445	450	455	
			Y	597	600	602	
			P	390	395	400	
Spectral Line Half-Width	△λ		R	10	15	20	nm
			G	30	35	40	
			B	15	20	25	
			Y	10	15	20	
			L	105	110	120	
			W	20	25	30	
			P	10	15	20	
Forward Voltage	V_f		R	2.8	3.0	3.2	V
			G	3.0	3.3	3.6	
			B	3.0	3.3	3.6	
			Y	2.2	2.5	2.8	
			L	3.2	3.5	3.8	
			W	3.2	3.5	3.8	
			P	3.3	3.6	3.9	

Reverse Current	I_R	V_R=10V	—	—	—	—	μA
Viewing Angle at 50％IV	$2\theta_{1/2}$	—	—	—	120	—	Deg
Thermal Resistance Junction to Case	$R\theta_{J-C}$	—	R	—	4.2	—	K/W
			G	—	4.2	—	
			B	—	4.2	—	
			Y	—	4.2	—	
			L	—	4.2	—	
			W	—	4.2	—	
			P	—	4.0	—	
Temperature Coefficient of Voltage	V△F/T	—	R	—	-2	—	mV/℃
			G	—	-2	—	
			B	—	-2	—	
			Y	—	-2	—	
			L	—	-2	—	
			W	—	-2	—	
			P	—	-2	—	

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.

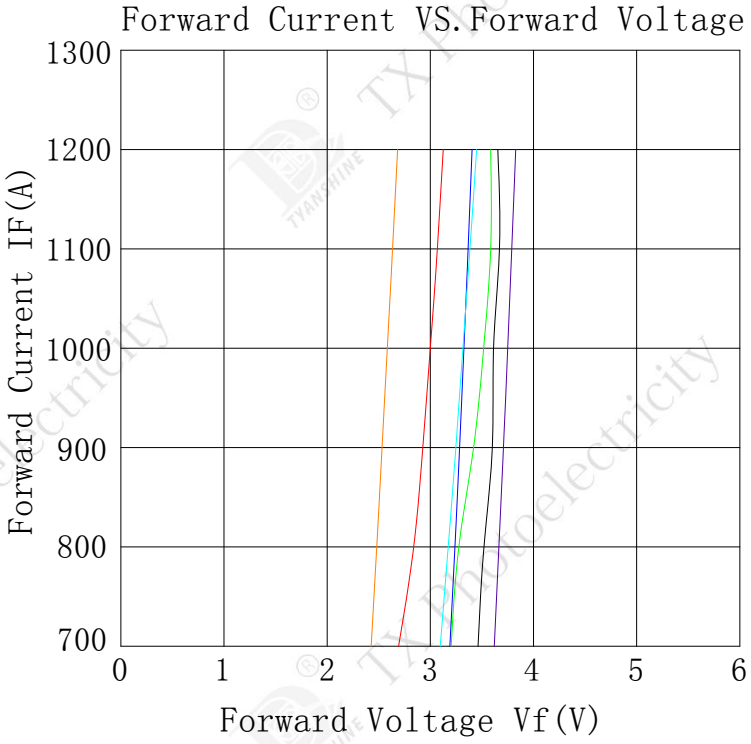
3.The dominant wavelength (λd) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

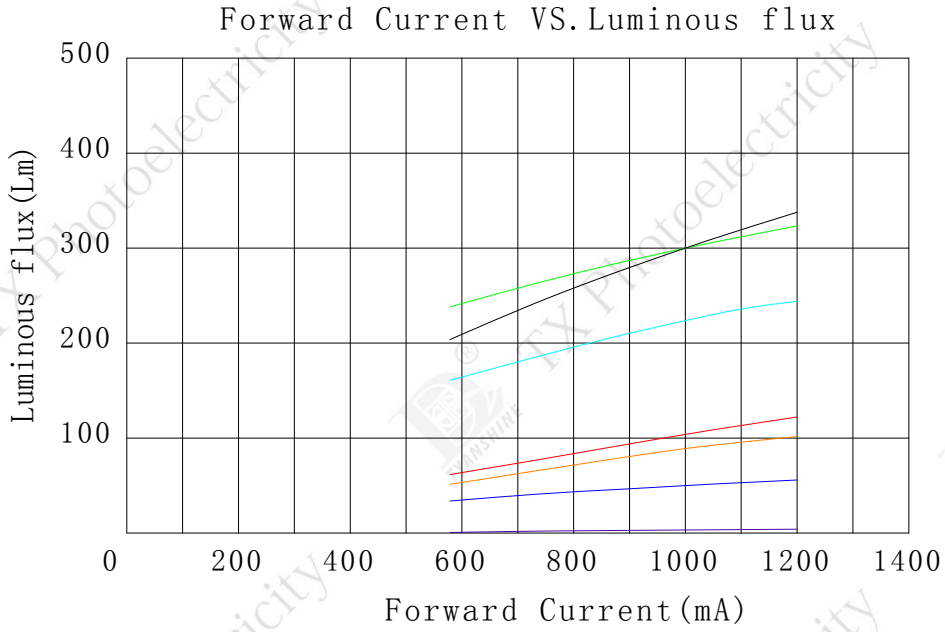
4.Luminous flux measurement tolerance:±15%.

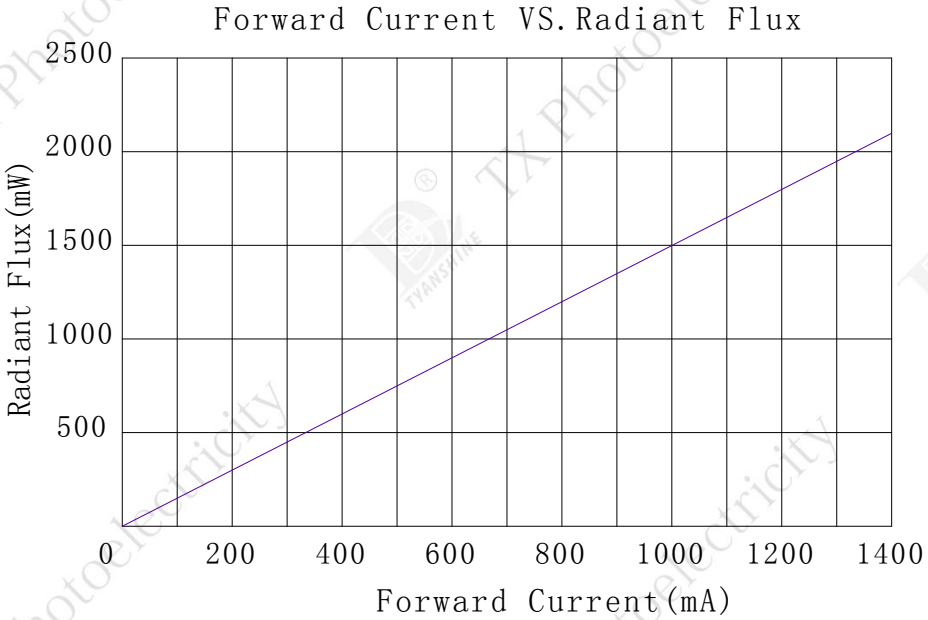
5.Forward voltage measurement tolerance:±0.15V.

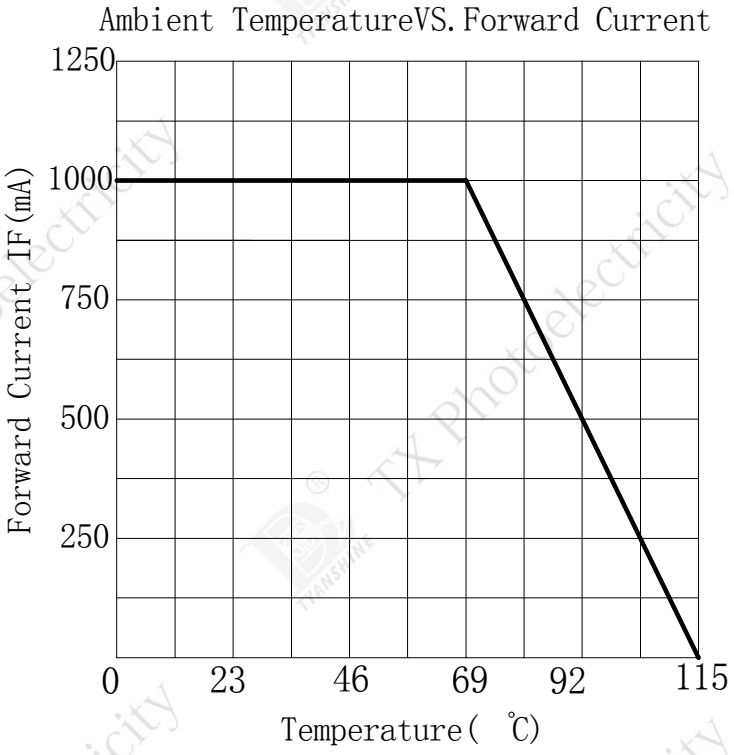
Typical Electrical/Optical Characteristics Curves

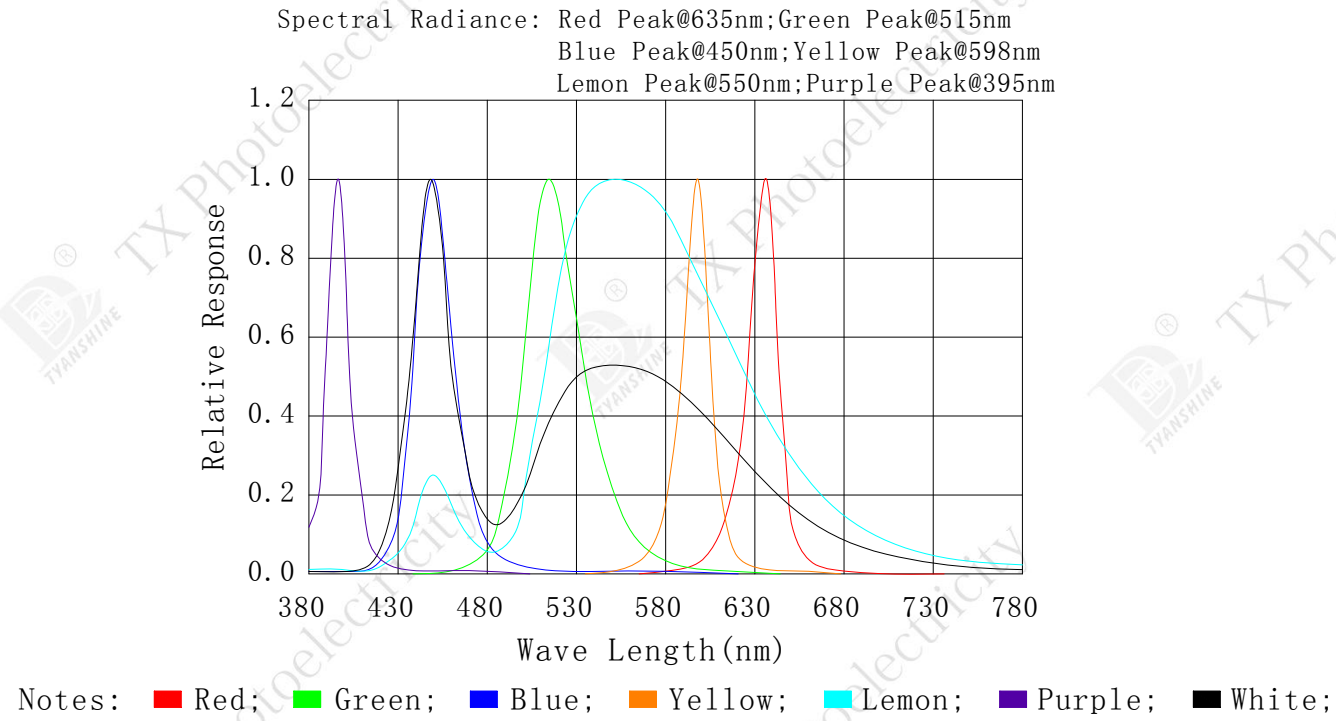
(25℃ Ambient Temperature Unless Otherwise Noted)

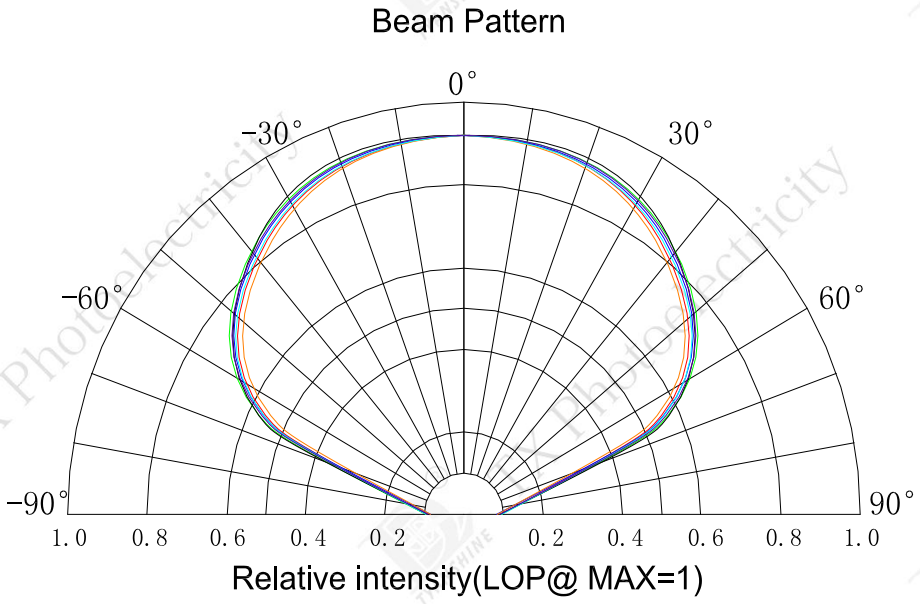





Forward Current VS.Radiant Flux
Radiant Flux(mW)
2500
2000
1500
1000
500
0
200
400
600
800
1000
1200
1400
Forward Current(mA)


Ambient TemperatureVS.Forward Current
Forward Current IF(mA)
1250
1000
750
500
250
0
23
46
69
92
115
Temperature(℃)





Notes:

1. 2θ 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 ± 5°.

Usage Precautions

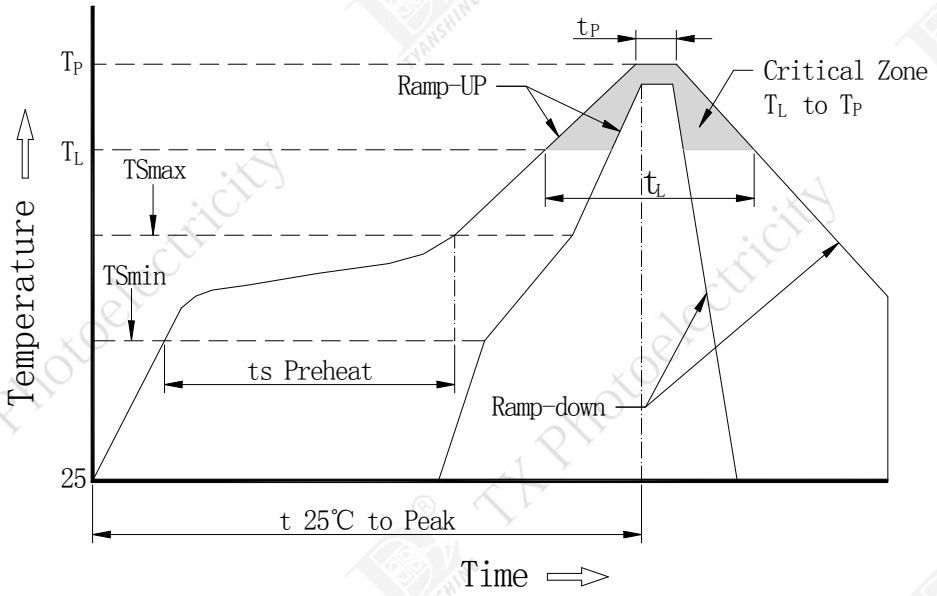
Storage Environment Condition

Temperature: 5℃ ~ 30℃ (41℉ ~ 86℉)

Humidity: 60% RH Max.

Soldering Condition

Use the conditions shown to the under figure.



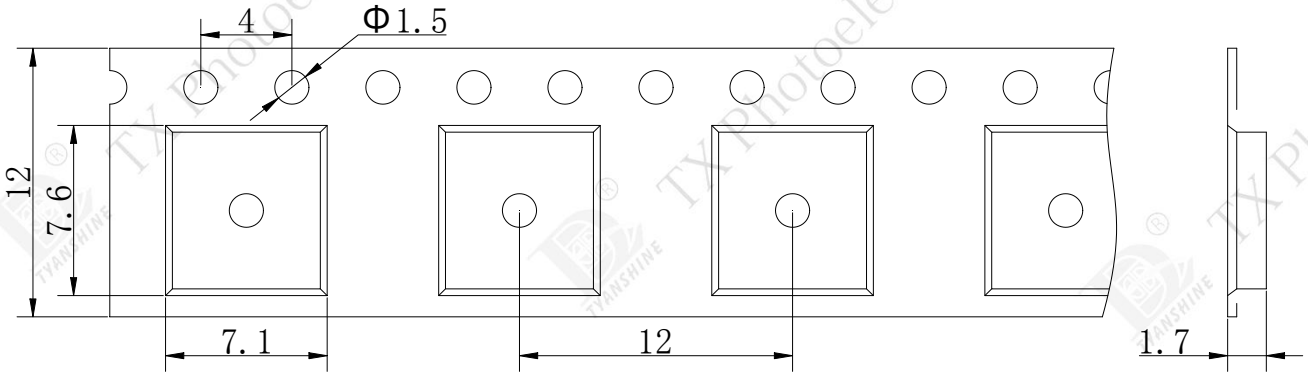
Profile Feature	Lead-Based Solder
Average Ramp-Up Rate (Ts_{max} to T_p)	3℃/second max.
Preheat: Temperature Min (Ts_{min})	100℃
Preheat: Temperature Max (Ts_{max})	150℃
Preheat: Time (Ts_{min} to Ts_{max})	60-120 seconds
Time Maintained Above: Temperature (T_L)	183℃
Time Maintained Above: Time (T_L)	60-150 seconds
Peak/Classification Temperature (T_P)	225℃
Time Within 5℃ of Actual Peak Temperature (T_P)	10-30 seconds
Ramp-Down Rate	6℃/second max.
Time 25℃ to Peak Temperature	6 minutes max.

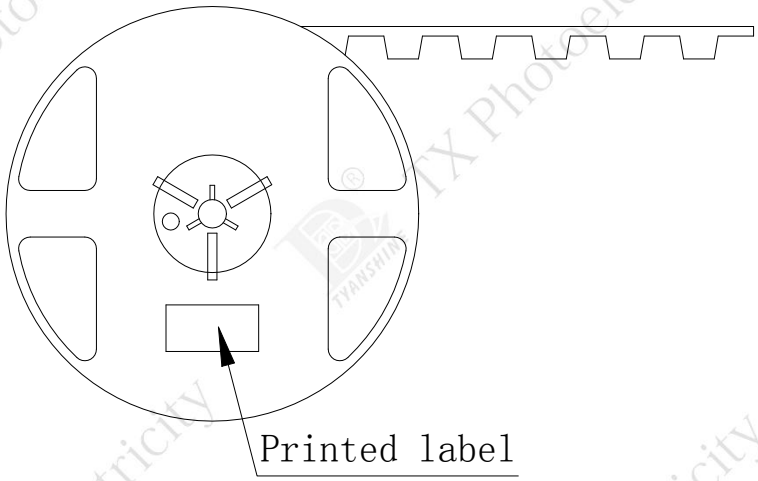
Note:

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

Dimensions For Cannulation And Packaging

Quantity: 220PCS





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.