

TX-5060RGBS15FC120-NUVCNG-02B

PRODUCT SPECIFICATION

Features:

- ◆Excellent transiting heat from LED chip operating under 750mA
- ◆High luminous output
- ◆No UV
- ◆Encapsulated materials are environmentally certified and meet environmental requirements.

Chip Material:

- ◆ Red:AlInGaP
- ◆ Green: GaInN
- ◆ Blue:GaInN
- ◆ White:GaInN

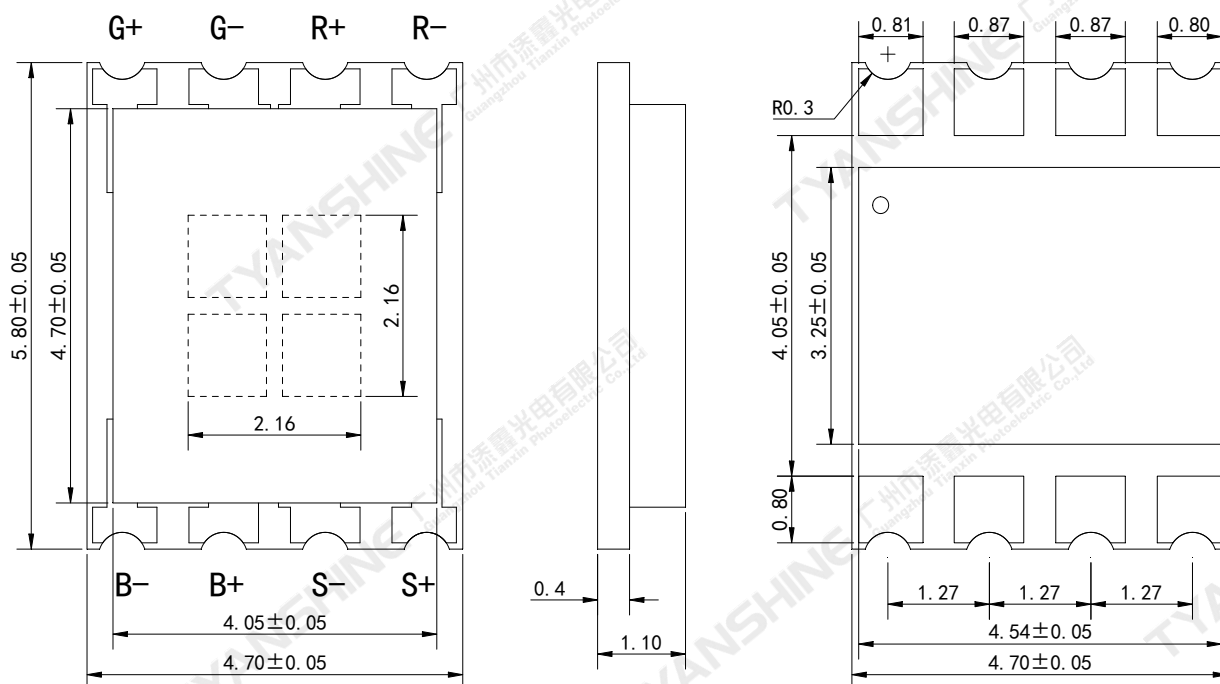
Emitting Color:

- ◆ Red
- ◆ Green
- ◆ Blue
- ◆ Warm white

Applications:

- ◆Auxiliary lighting
- ◆Ambient lighting
- ◆Architectural lighting
- ◆Entertainment lighting

Package Dimensions:



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	R	1000	mA
		G	1500	
		B	1500	
		S	1500	
Reverse Voltage	VR		Not designed for reverse operation	V
Power Dissipation	PD	R	2600	mW
		G	5400	
		B	5400	
		S	5400	
Junction Temperature	Tj	R	115	℃
		G	150	
		B	150	
		S	150	
Electrostatic Discharge Threshold (ESD)	ESD		2000	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.

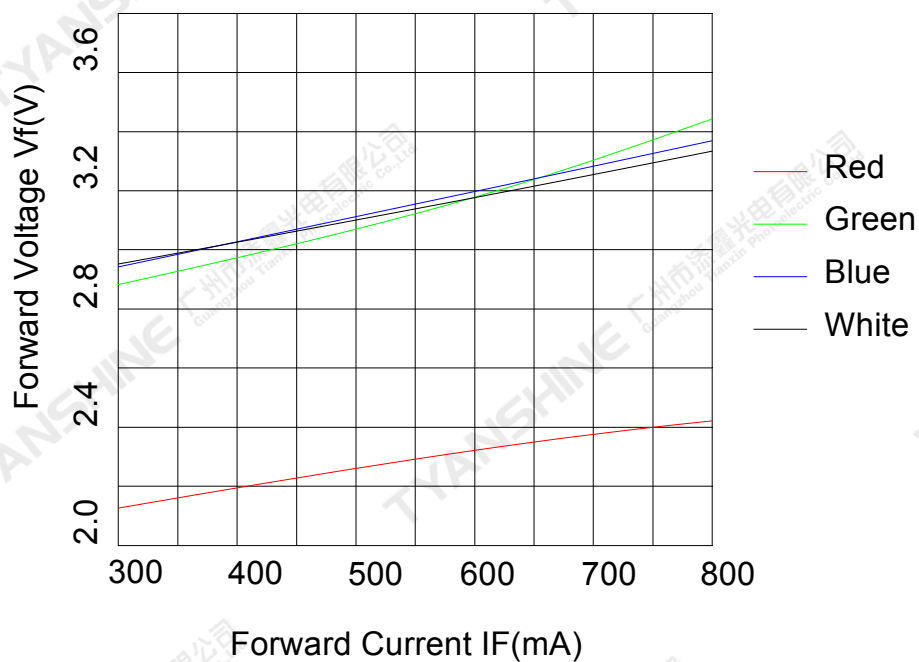
Electrical Optical Characteristics (Tc=25°C)

Parameter	Symbol	Condition	Emitting Color	Min.	Typ.	Max.	Units
Luminous Flux	Φ_v	If=750mA	R	65	80	90	lm
			G	180	195	215	
			B	25	32	40	
			S	145	160	175	
Dominant Wavelength	λ_d		R	619	624	629	nm
			G	520	525	530	
			B	450	455	460	
Correlated Colour Temperature	CCT		S	2970	3085	3130	K
Peak-emission Wavelength	λ_p		R	630	635	640	nm
			G	514	519	524	
			B	446	451	456	
Spectral Line Half-Width	$\Delta\lambda$		R	13	16	19	nm
			G	29	34	39	
			B	18	21	24	
			S	98	108	118	
Forward Voltage	V_f		R	2.1	2.4	2.6	V
			G	3.0	3.3	3.6	
			B	3.0	3.3	3.6	
			S	3.0	3.3	3.6	
Reverse Current	I_R		$V_R=10V$	R	—	—	2
		$V_R=7V$	G	—	—	2	
			B	—	—	2	
		—	S	Not designed for reverse operation			
Viewing Angle at 50 % IV	$2\theta_{1/2}$	—	—	—	120	—	Deg
Thermal Resistance Junction to Case	$R\theta_{J-C}$	—	—	—	0.8	—	K/W
Temperature Coefficient of Voltage	$V\Delta F/T$	—	R	—	-2.2	—	mV/℃
			G	—	-6.5	—	
			B	—	-1.7	—	
			S	—	-3.3	—	
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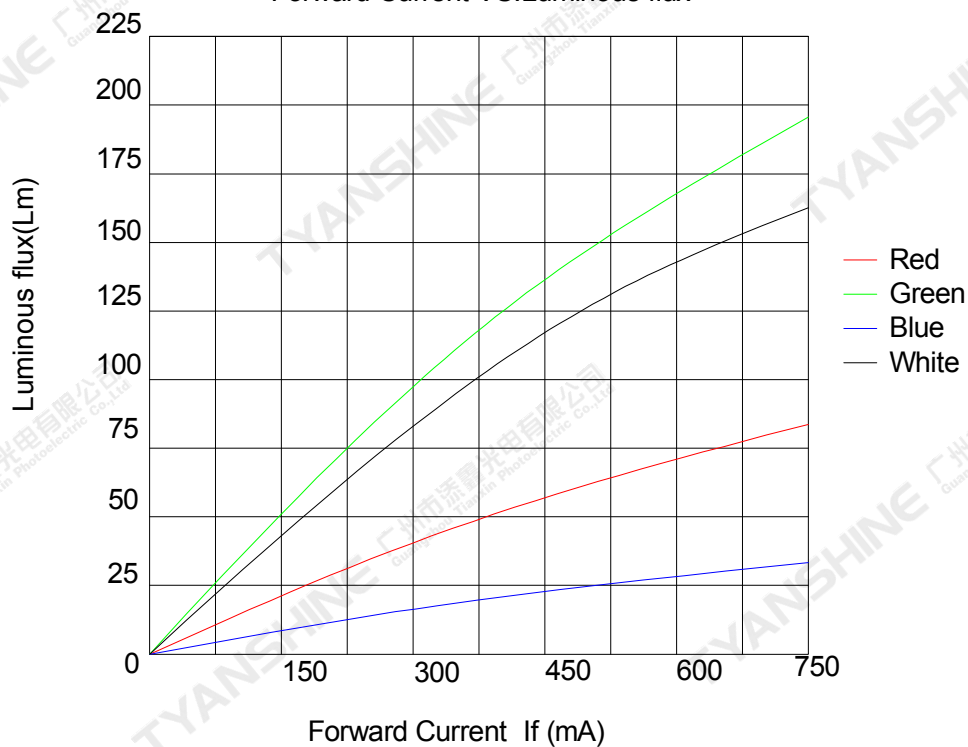
Typical Electrical/Optical Characteristics Curves

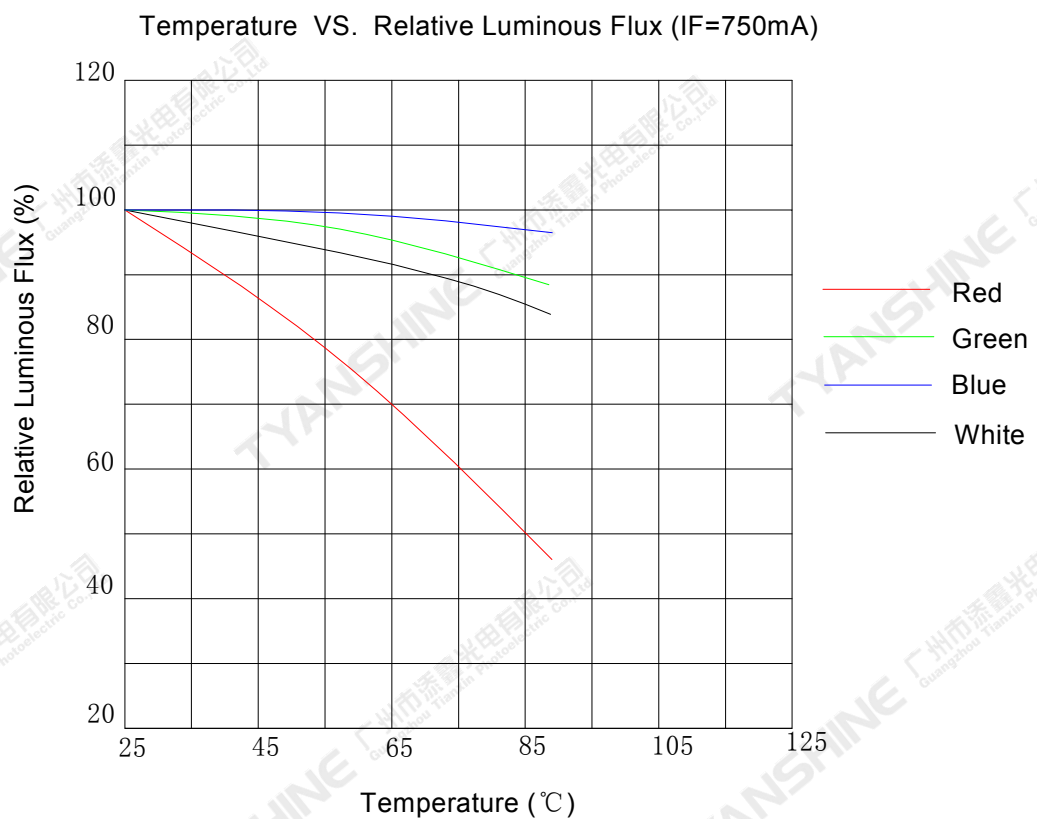
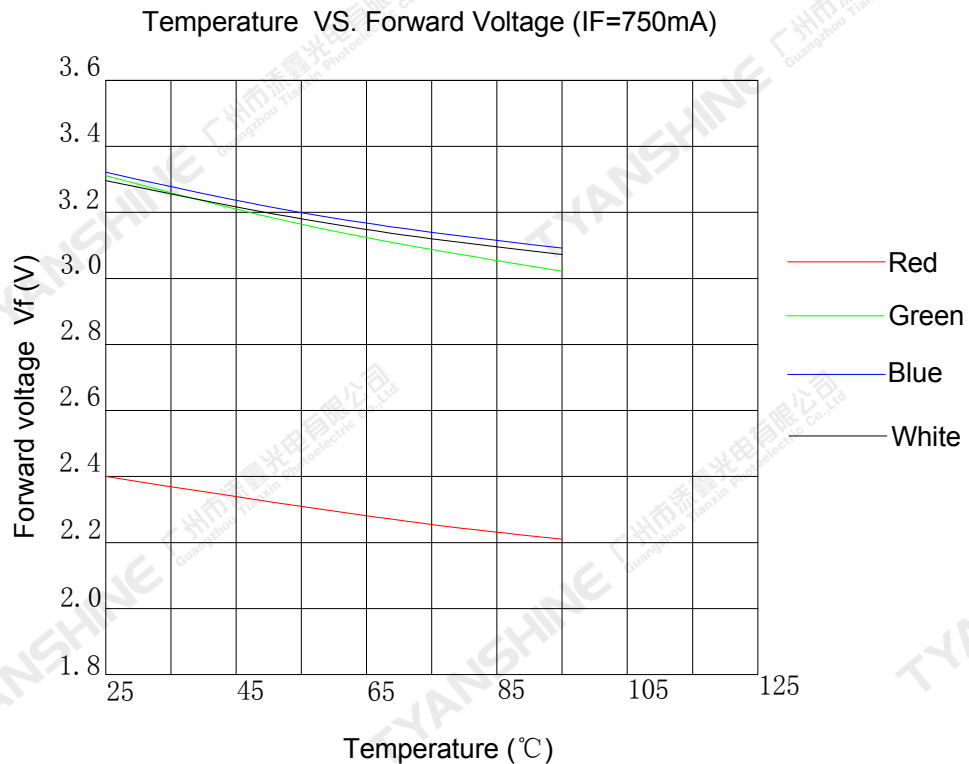
(25°C Ambient Temperature Unless Otherwise Noted)

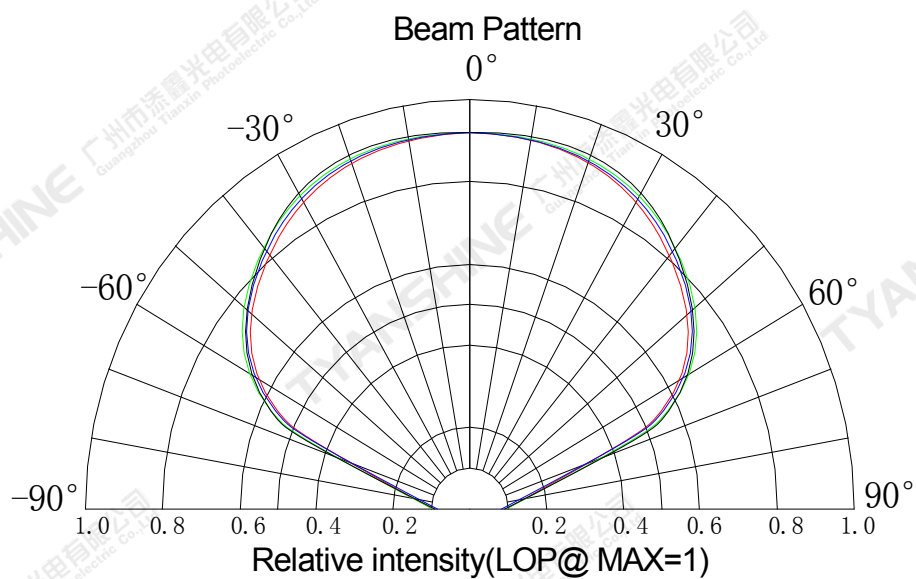
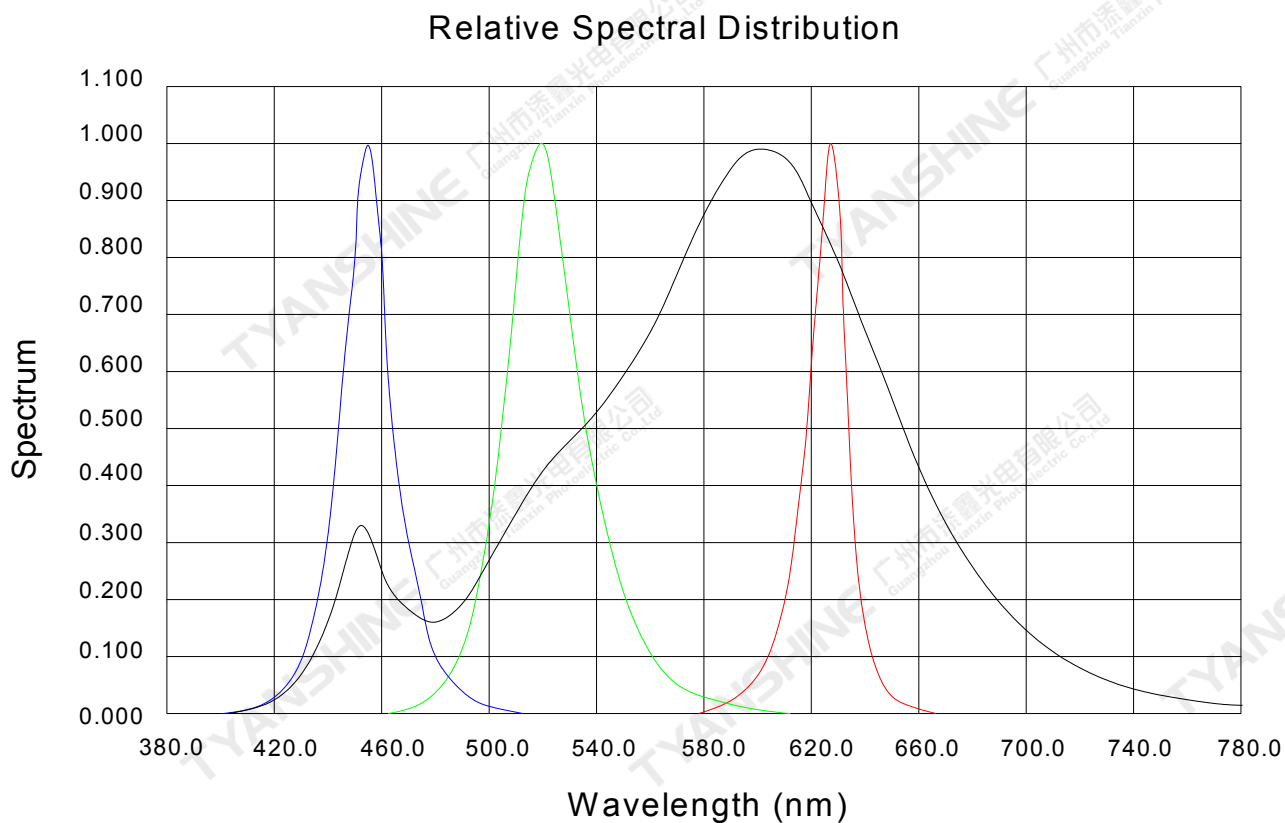
Forward Current VS. Forward Voltage



Forward Current VS. Luminous flux





**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

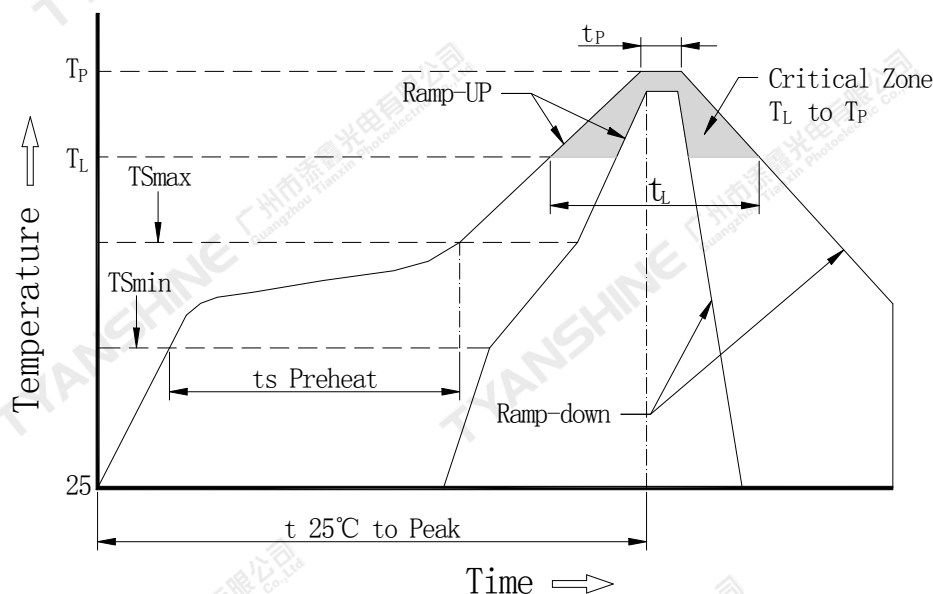
Storage Environment Condition

Temperature: 5°C ~ 30°C (41°F ~ 86°F)

Humidity: 60% RH Max.

Soldering Condition

Use the conditions shown to the under figure.



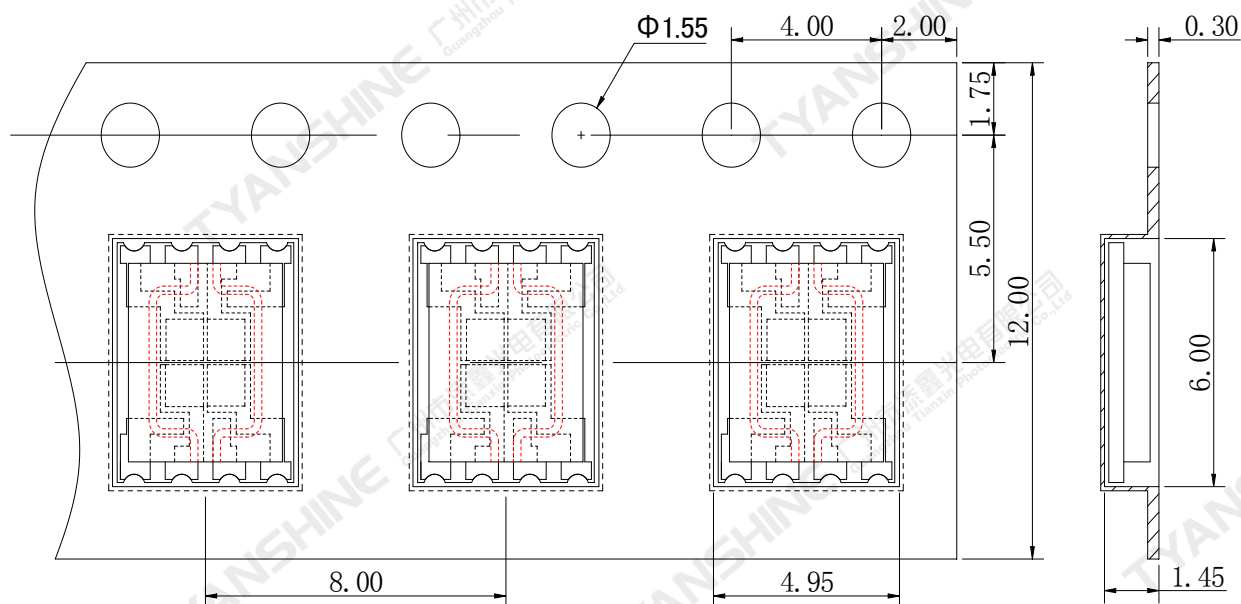
Profile Feature	Lead-Based Solder
Average Ramp-Up Rate (T_{Smax} to T_P)	3°C/second max.
Preheat: Temperature Min (T_{Smin})	100°C
Preheat: Temperature Max (T_{Smax})	150°C
Preheat: Time (T_{Smin} to T_{Smax})	60-120 seconds
Time Maintained Above: Temperature (T_L)	183°C
Time Maintained Above: Time (T_L)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

Note:

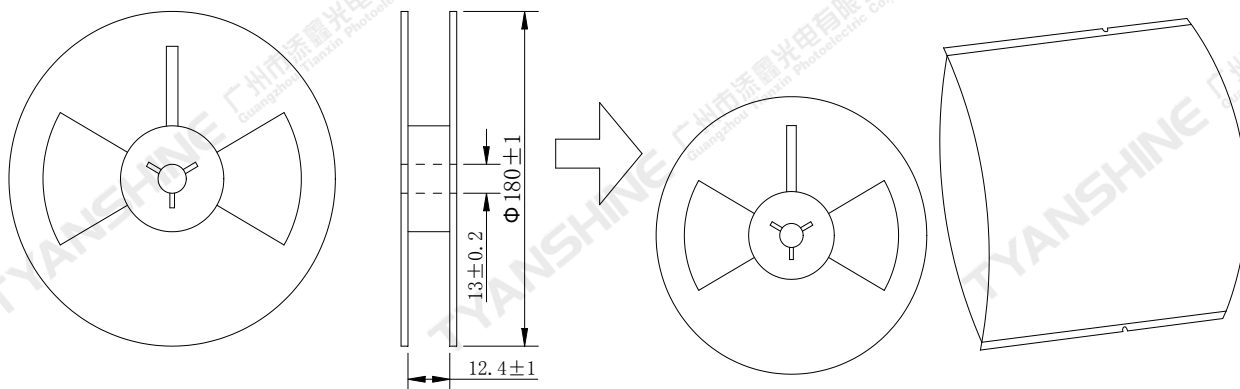
All temperatures refer to topside of the package, measured on the package body surface.

Dimensions For Cannulation And Packaging

Quantity: 500PCS



Package method(units:mm):



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.