

TX-6070W45VCA1-NP3CX-01

PRODUCT SPECIFICATION

Features:

- ◆Excellent transiting heat from LED chip operating under 10A.
- ◆High luminous output.
- ◆No UV.
- ◆Encapsulated materials are environmentally certified and meet environmental requirements.

Moisture Proof Grade:

- ◆LEVEL1

Emitting Color:

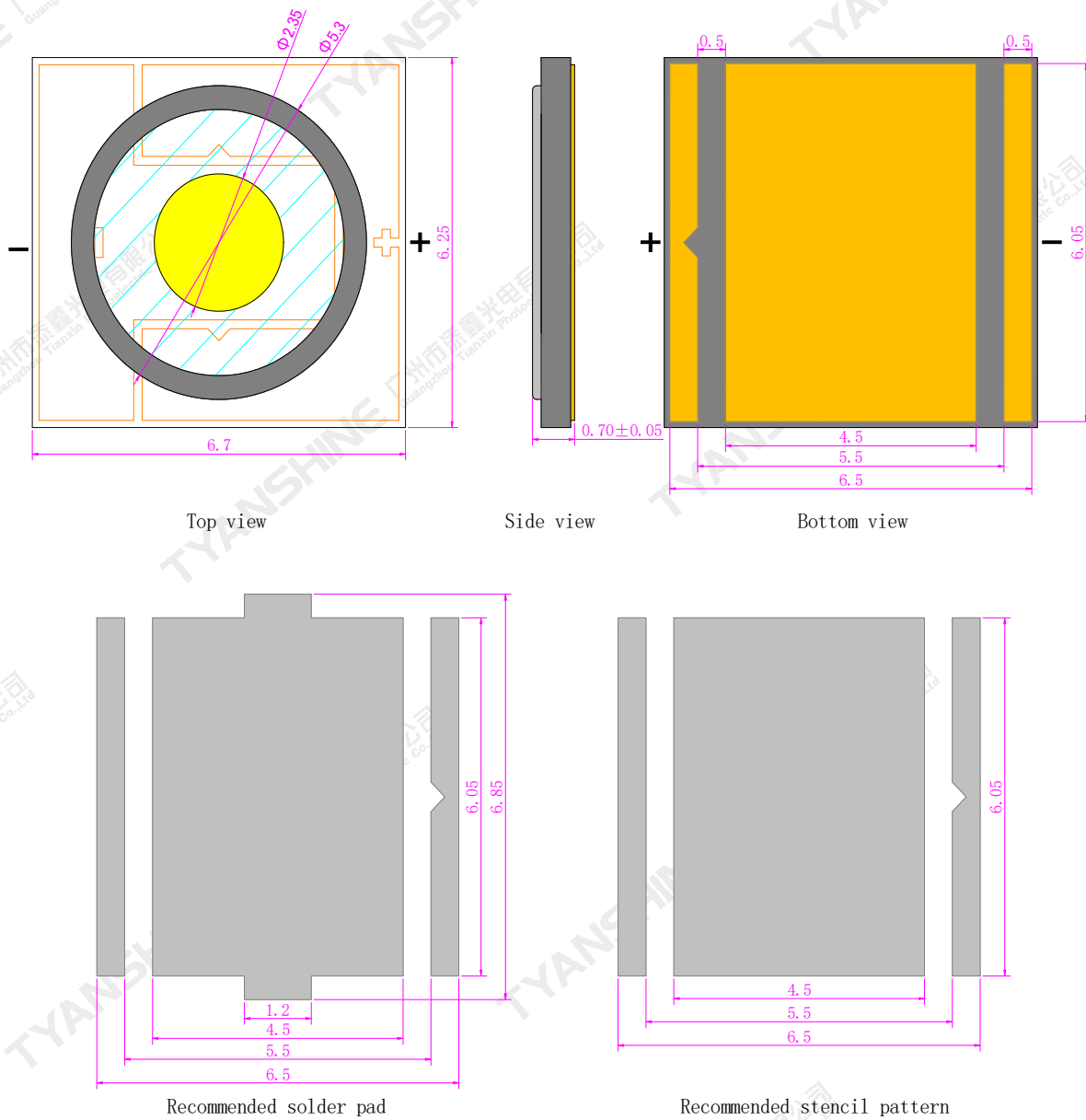
- ◆White (W)

Applications:

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

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Package Dimensions:



Notes:

- 1.All dimensions are in millimeters .
- 2.Tolerances unless otherwise mentioned are $\pm 0.1\text{mm}$.

Absolute Maximum Ratings (Tc=25℃)

Parameter	Symbol	Ratings	Unit
Forward Current	IF	10	A
Peak Forward Current (Condition 1)	IFP	12	
Reverse Voltage	VR	5	V
Power Dissipation	PD	34	W
Junction Temperature	Tj	150	℃
Electrostatic Discharge Threshold (ESD)	ESD	2000	V
Storage Temperature	Tstg	-40~+70	℃
Operation Temperature	Topr	-30~+85	
Ceramic side temperature(notes 4)	Tcs	85	

Condition 1.Pulse width ≤ 0.1 msec, duty $\leq 1/10$.

Notes:

- Specifications are subject to change without notice.
- The data on this specification is for reference only and the actual data is in accordance with the acknowledgment.
- 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.
- Temperature on the side of the ceramic substrate near the heat sink.

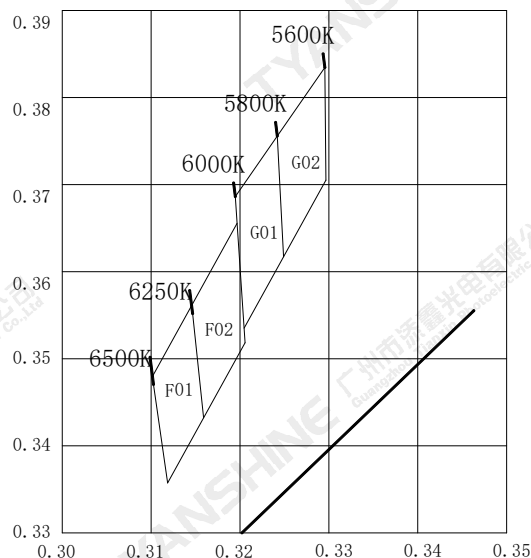
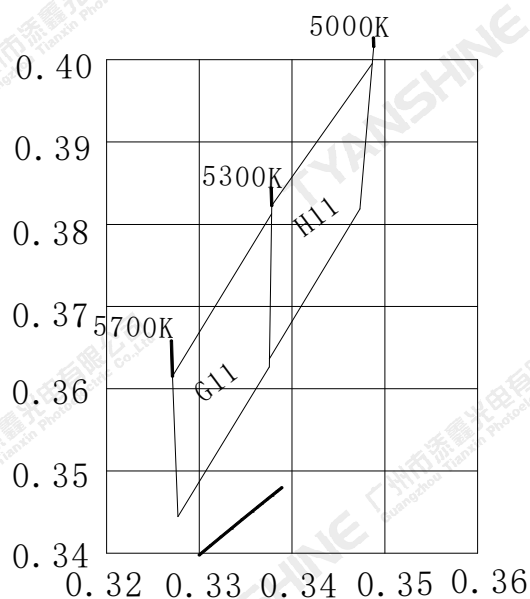
Electrical Optical Characteristics (Tc=25°C)

Parameter	Symbol	Emitting Color	Condition	Min.	Typ.	Max.	Units
Luminous Flux	Φ_v	W1 _(5350K)	If=1A	400	430	460	lm
			If=9A	2250	2450	2650	
		W2 _(6000K)	If=1A	440	475	510	
			If=9A	2500	2700	2900	
Forward Voltage	V_f	W	If=1A	2.7	3.0	3.4	V
			If=9A	3.9	4.2	4.6	
Correlated Colour Temperature	CCT	W1 _(5350K)	If=1A	5000	5350	5700	K
			If=9A	5600	5950	6300	
		W2 _(6000K)	If=1A	5600	6000	6500	
			If=9A	6200	6600	7100	
Spectral Line Half-Width	$\Delta\lambda$	W	If=9A	17	22	27	nm
Viewing Angle at 50 % IV	$2\theta_{1/2}$		—	—	120	—	Deg
Reverse Current	I_R		$V_R=-5V$	—	—	2	μA
Thermal Resistance Junction to Case	$R\theta_{J-C}$		—	—	1.6	—	K/W
Temperature Coefficient of Voltage	$V\Delta F/T$		If=12A	—	-2.8	—	mV/°C

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.Luminous flux measurement tolerance:±15%.
- 4.Forward voltage measurement tolerance:±0.15V.

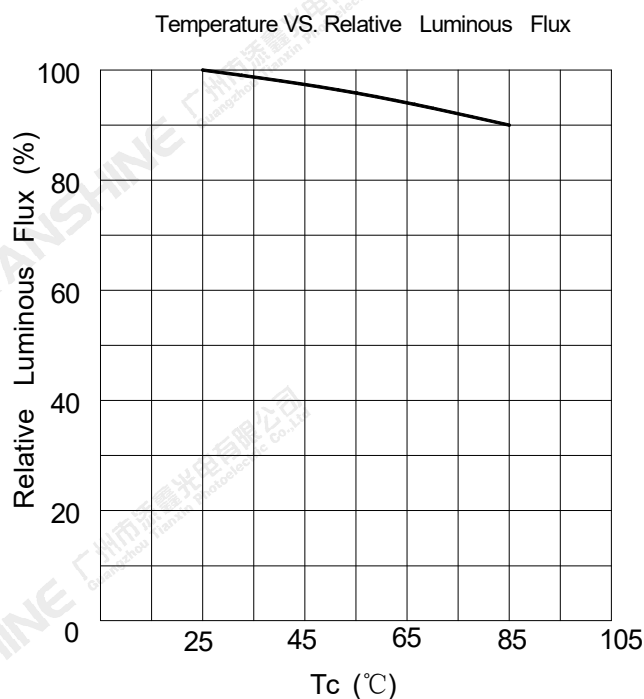
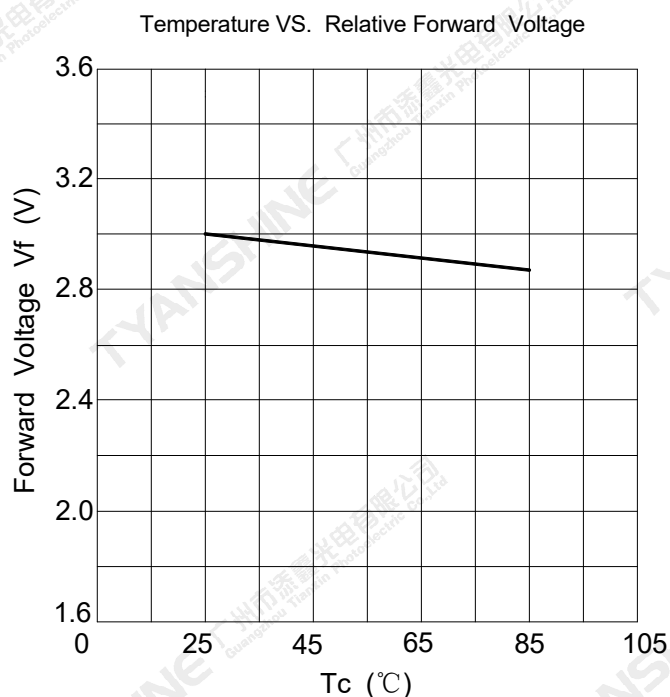
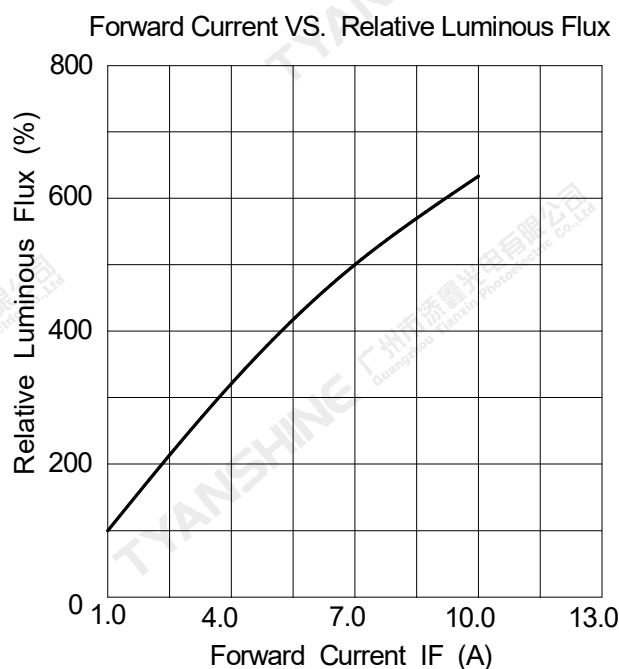
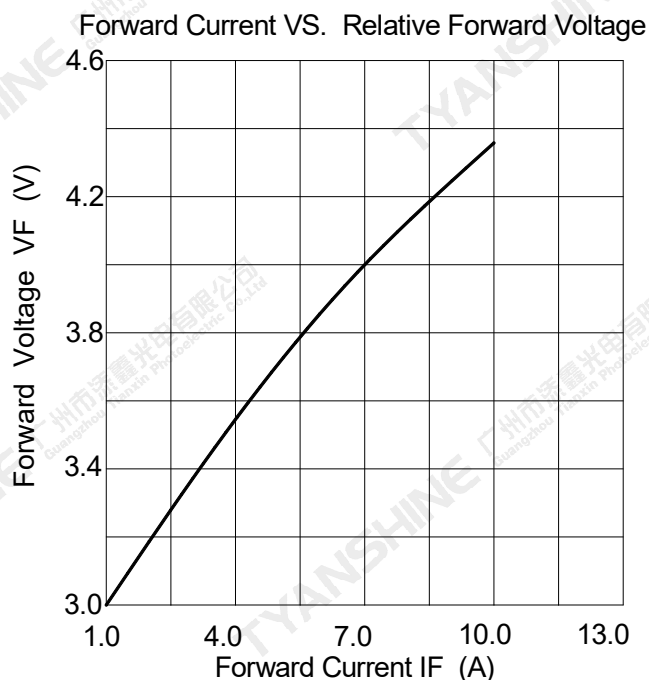
White Color coordinate filing (IF=1.0A)

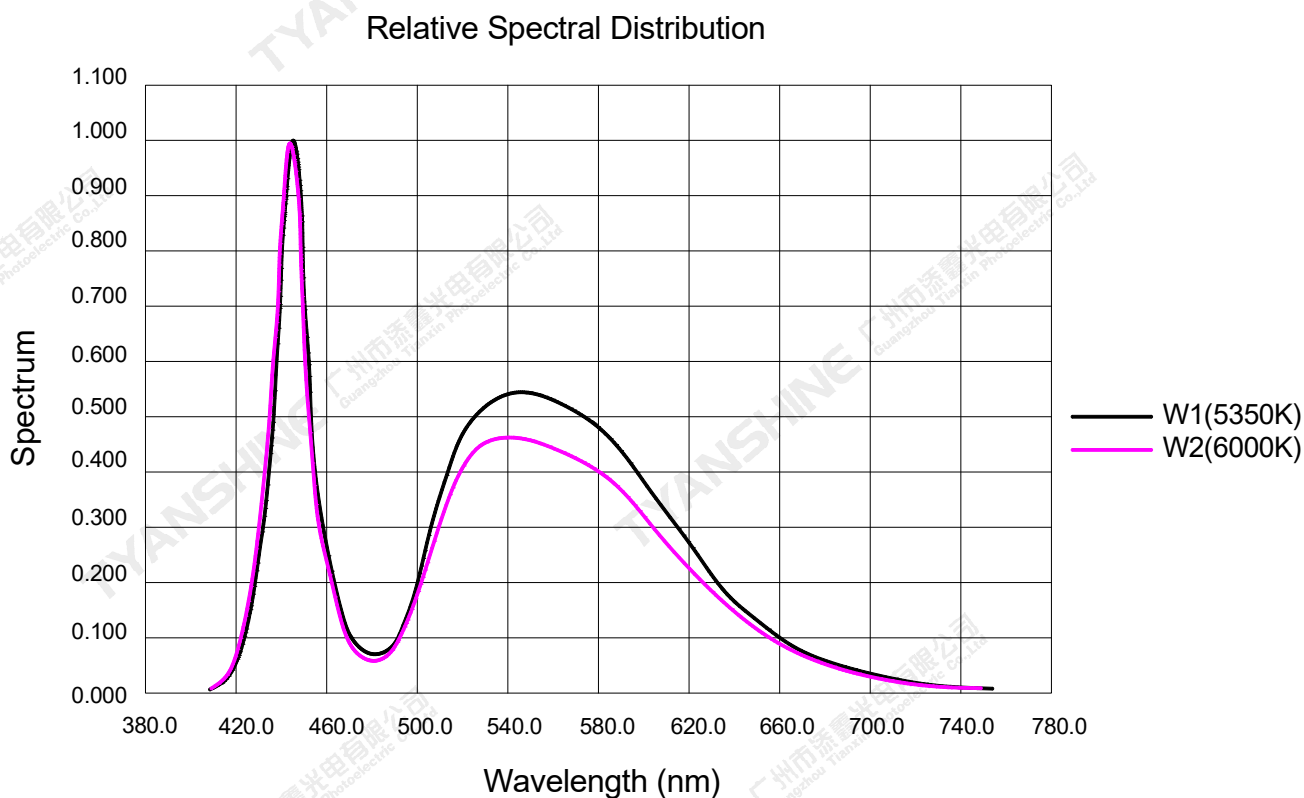
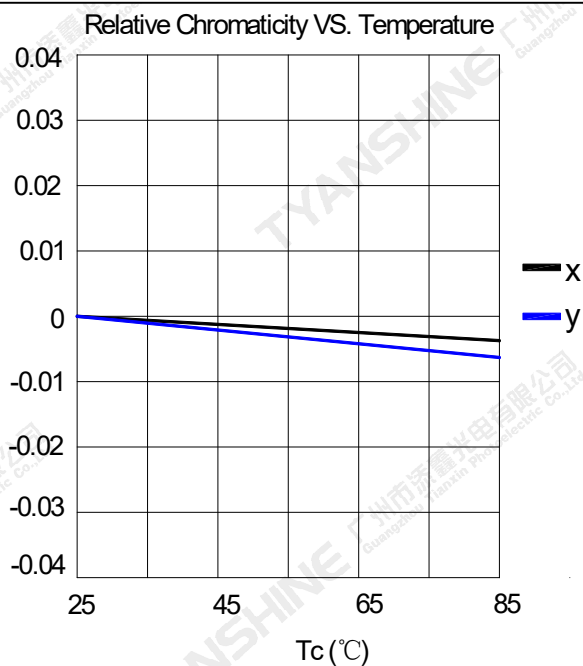
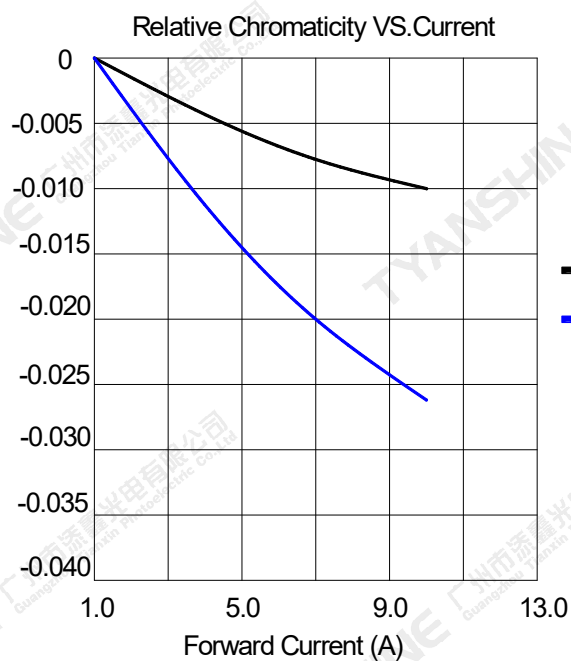


Region	CCT Range		X1	Y1	X2	Y2	X3	Y3	X4	Y4
	Min	Max								
H11	5000K	5300K	0.3376	0.3637	0.3378	0.3823	0.3487	0.3995	0.3473	0.3819
G11	5300K	5700K	0.3277	0.3445	0.3271	0.3615	0.3378	0.3813	0.3376	0.3627
G02	5600K	5800K	0.3249	0.3617	0.3242	0.3756	0.3295	0.3835	0.3297	0.3705
G01	5800K	6000K	0.3205	0.3535	0.3195	0.3686	0.3242	0.3756	0.3249	0.3617
F02	6000K	6250K	0.3159	0.3432	0.3146	0.3561	0.3197	0.3656	0.3206	0.3518
F01	6250K	6500K	0.3119	0.3357	0.3101	0.3479	0.3146	0.3561	0.3159	0.3432

Typical Electrical/Optical Characteristics Curves(IF=1.0A)

(25°C Ambient Temperature Unless Otherwise Noted)

**Notes:** — White (W) ;



Notes: ■ White (W) ;

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

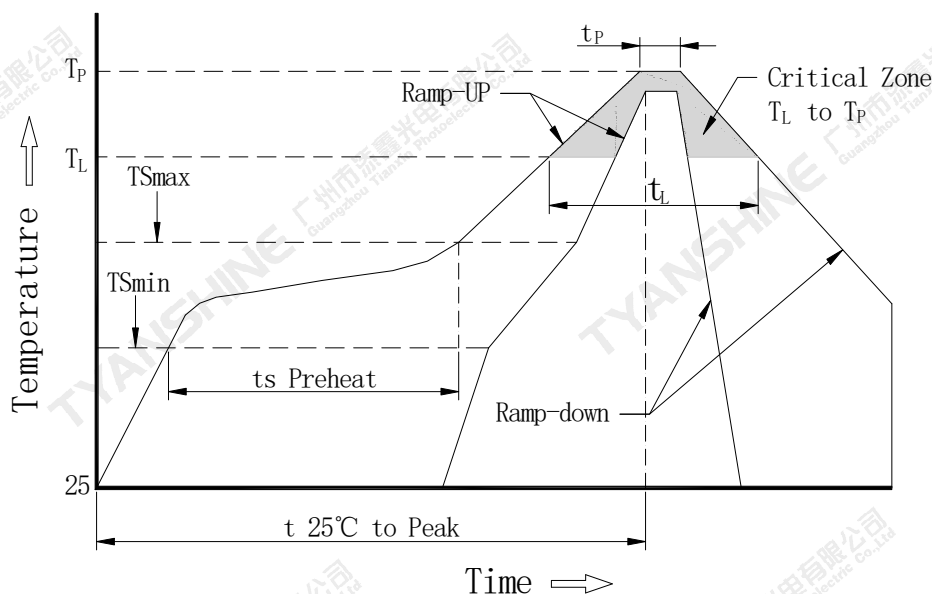
Storage Environment Condition

Temperature: 5°C ~ 30°C (41°F ~ 86°F)

Humidity: 60% RH Max.

Soldering Condition

Use the conditions shown to the under figure.



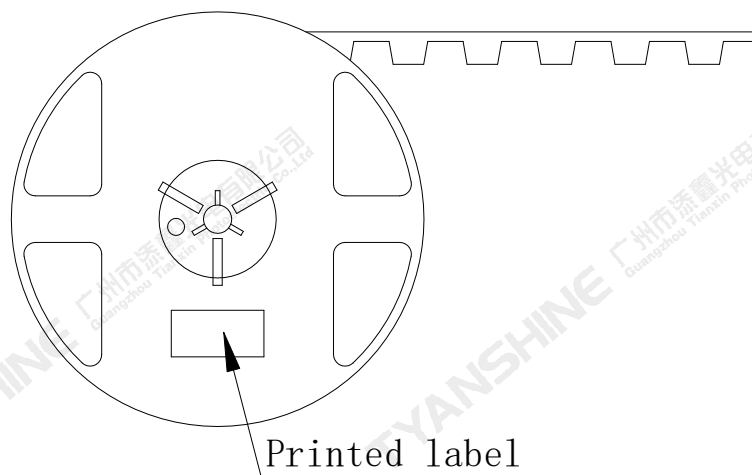
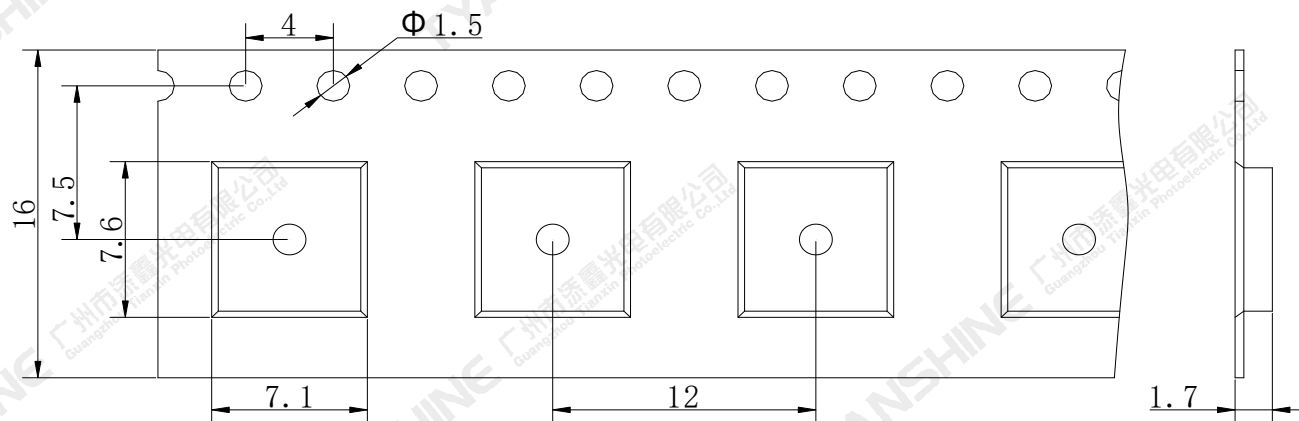
Profile Feature	Pb-Free Solderr(SnBi35Ag0.3)
Average Ramp-Up Rate (T_{Smax} to T_P)	3°C/second max.
Preheat: Temperature Min (T_{Smin})	130°C
Preheat: Temperature Max (T_{Smax})	190°C
Preheat: Time (T_{Smin} to T_{Smax})	120-180 seconds
Time Maintained Above: Temperature (T_L)	230°C
Time Maintained Above: Time (T_L)	60-150 seconds
Peak/Classification Temperature (T_P)	255°C
Time Within 5°C of Actual Peak Temperature (T_P)	10-35 seconds
Ramp-Down Rate	5°C/second max.
Time 25°C to Peak Temperature	7 minutes max.

Note:

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

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.

产品规格书变更履历表

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