

TX-3535Y3FC120-OGVCND34-03F

PRODUCT SPECIFICATION

Features:

- ◆Excellent transiting heat from LED chip operating under 0.8A.
- ◆High luminous output.
- ◆No UV.
- ◆Encapsulated materials are environmentally certified and meet environmental requirements.

Chip Material:

- ◆GaN

Emitting Color:

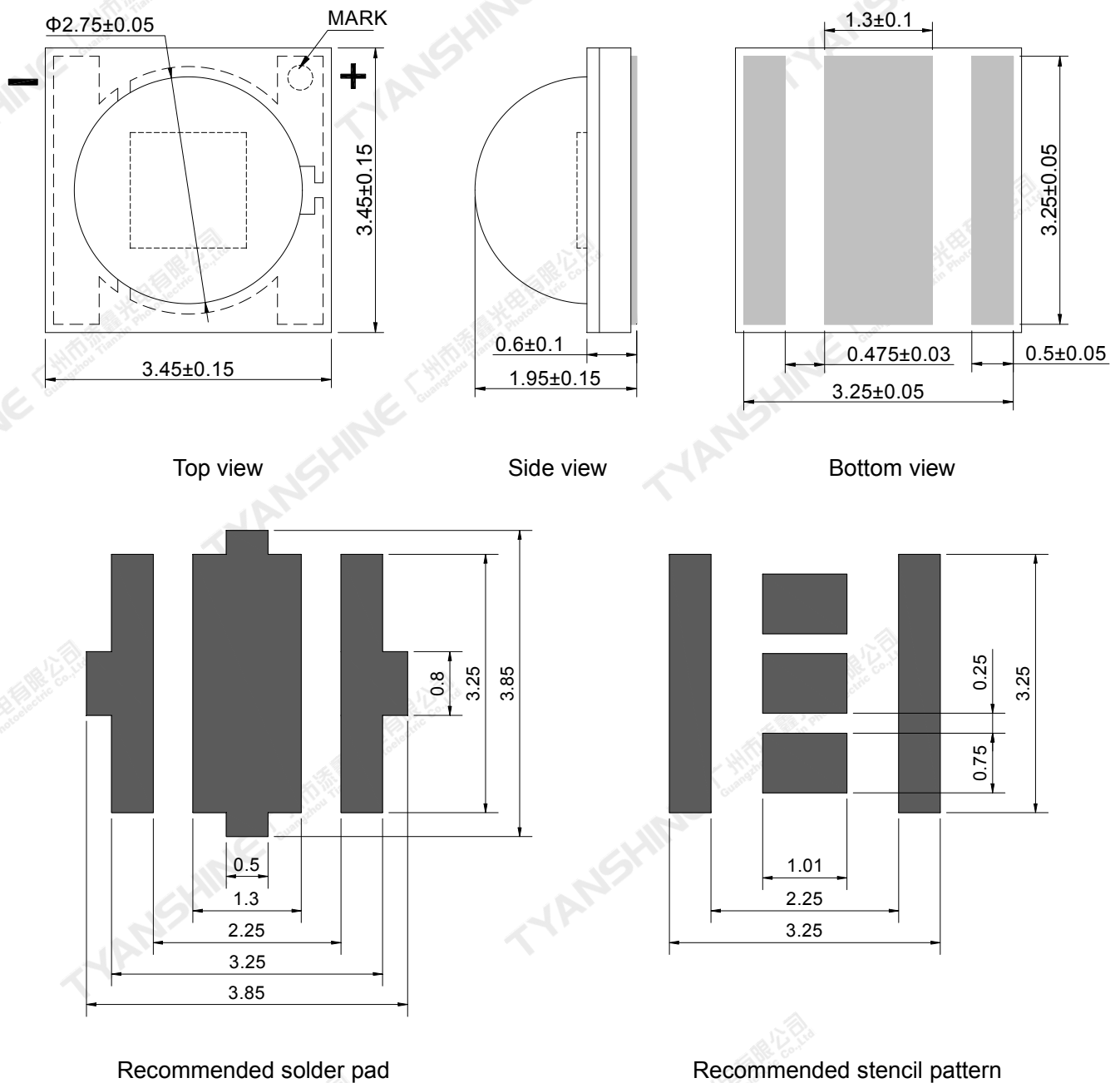
- ◆ Yellow (Y)

Applications:

- ◆Portable Flashlight
- ◆Garden lighting
- ◆General Lighting

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Package Dimensions:



Notes:

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

Absolute Maximum Ratings (Tc=25℃)

Parameter	Symbol	Ratings	Unit
Forward Current	IF	0.8	A
Reverse Voltage	V _R	7	V
Reverse Current	I _R	5	μA
Power Dissipation	P _D	2.16	W
Junction Temperature	T _j	150	℃
Electrostatic Discharge Threshold (ESD)	ESD	2000	V
Storage Temperature	T _{stg}	-40~+70	℃
Operation Temperature	T _{opr}	-30~+85	

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.

Electrical Optical Characteristics (Tc=25°C , IF=0.35A)

Parameter	Symbol	Min.	Typ.	Max.	Units
Luminous Flux	ϕ_v	40	75	—	lm
Peak Emission Wavelength	λ_p	590	596	598	nm
Dominant Wavelength	λ_d	585	592	596	nm
Spectral Line Half-Width	$\Delta\lambda$	12	17	22	nm
Forward Voltage	V_f	2.1	2.4	2.7	V
Viewing Angle at 50 % IV	$2\theta_{1/2}$	—	120	—	Deg
Reverse Current	I_R	—	—	5	μA
Thermal Resistance Junction to Case	$R\theta_{J-C}$	—	8	—	K/W
Temperature Coefficient of Voltage	$V\Delta F/T$	—	-2	—	mV/°C

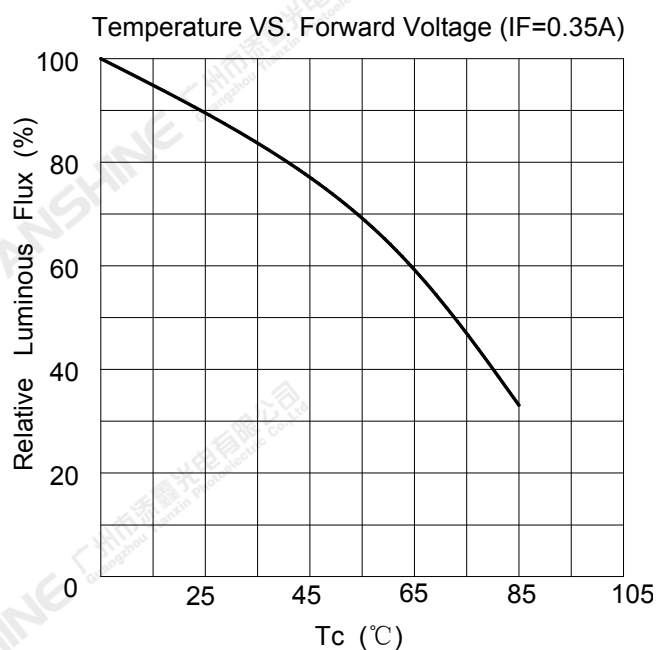
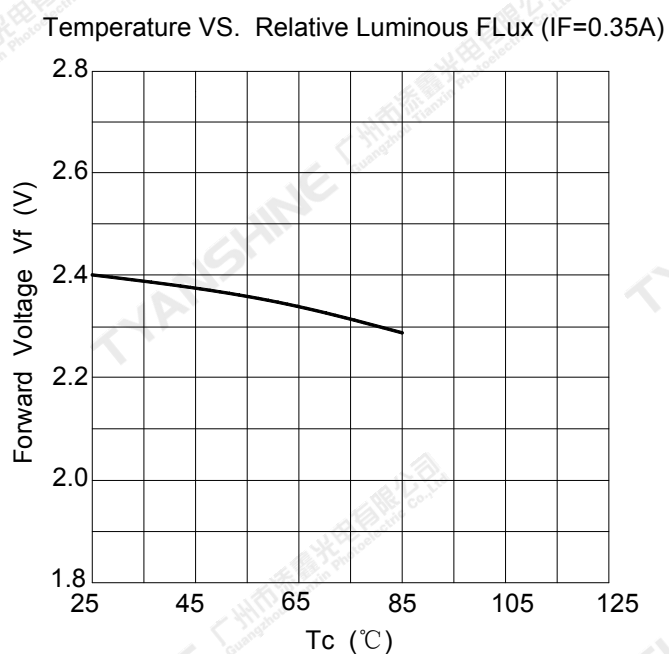
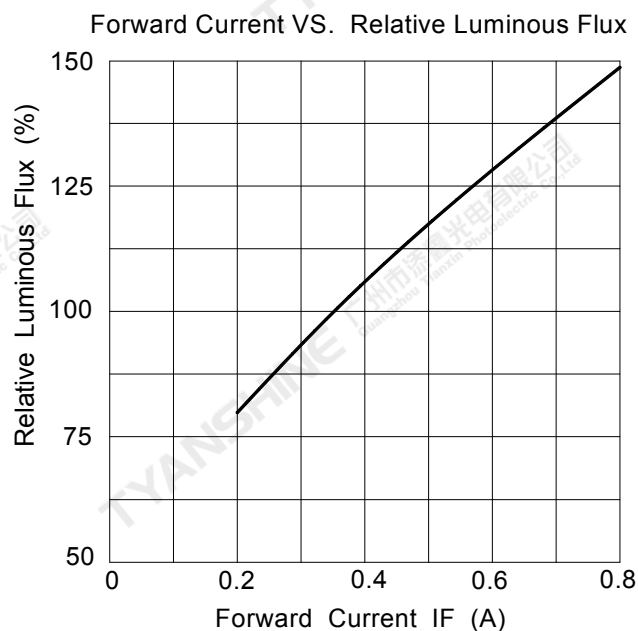
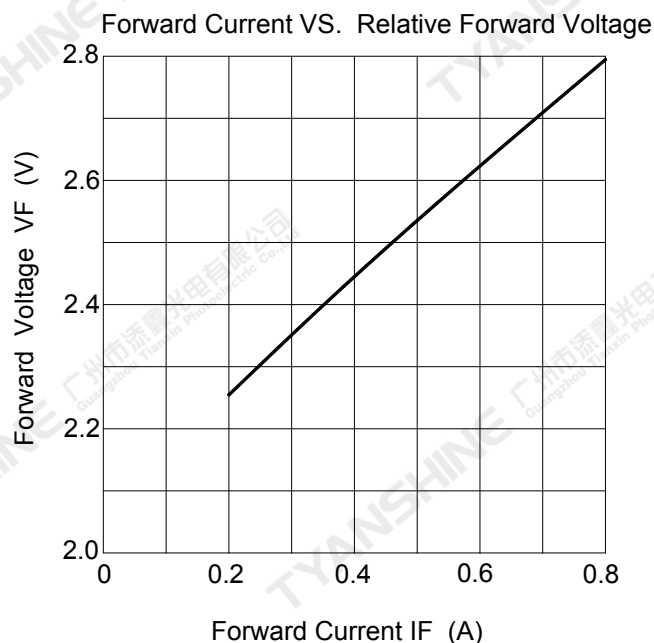
Notes:

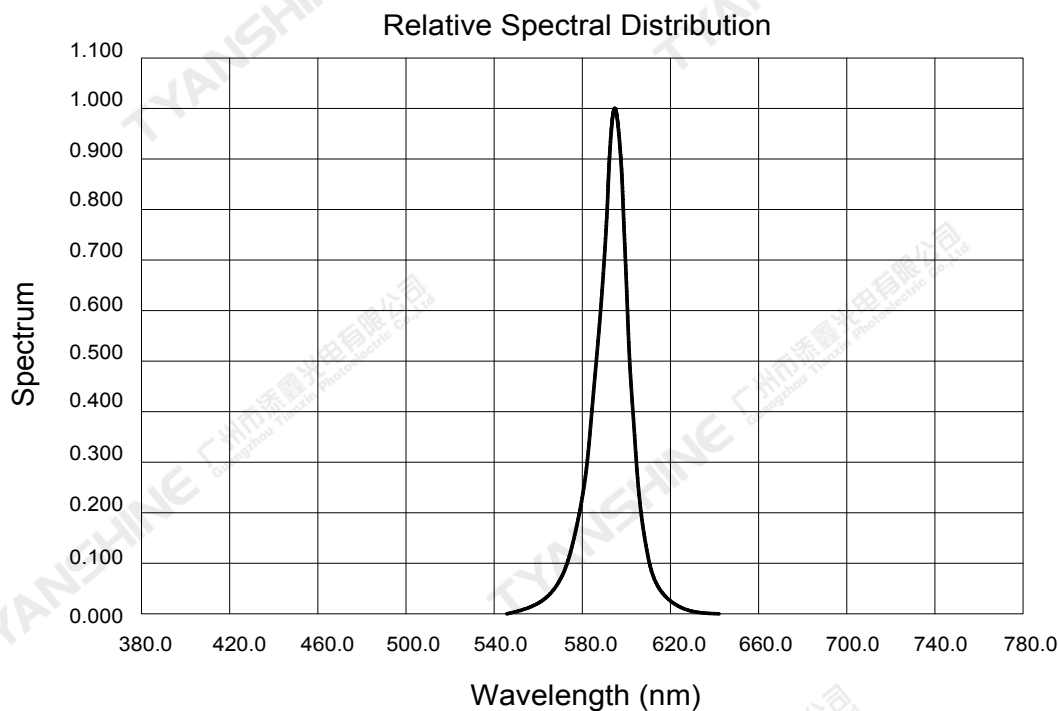
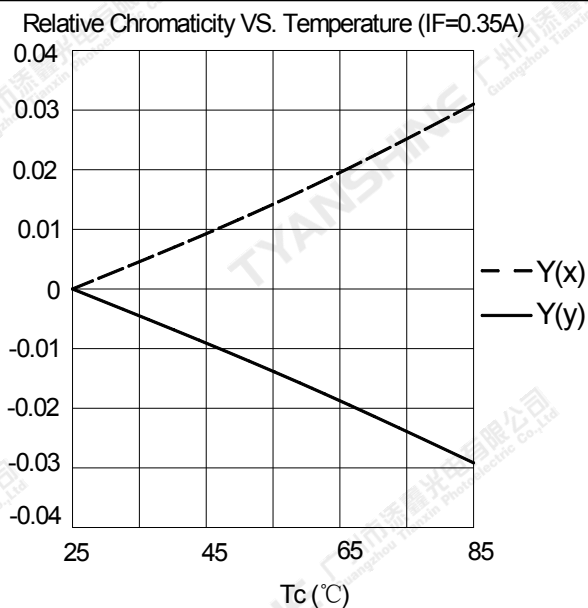
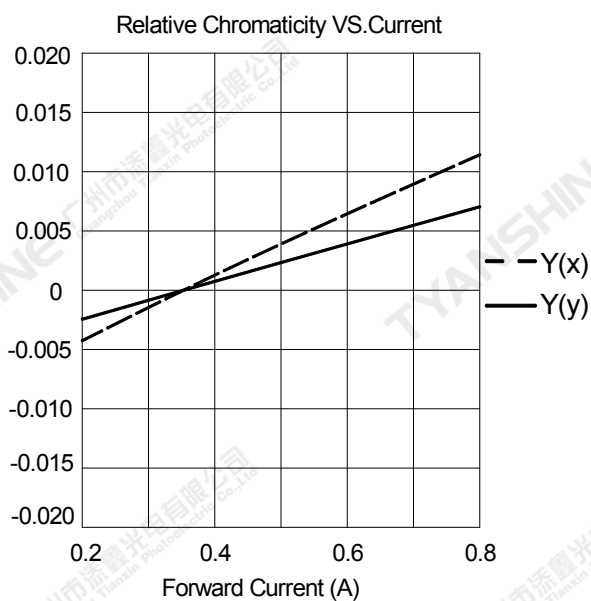
- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3.Luminous flux measurement tolerance:±10%.
- 4.Forward voltage measurement tolerance:±10%V.
- 5.Ra measurement tolerance:±2.

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Typical Electrical/Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

**Notes:** — Yellow (Y) ;



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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

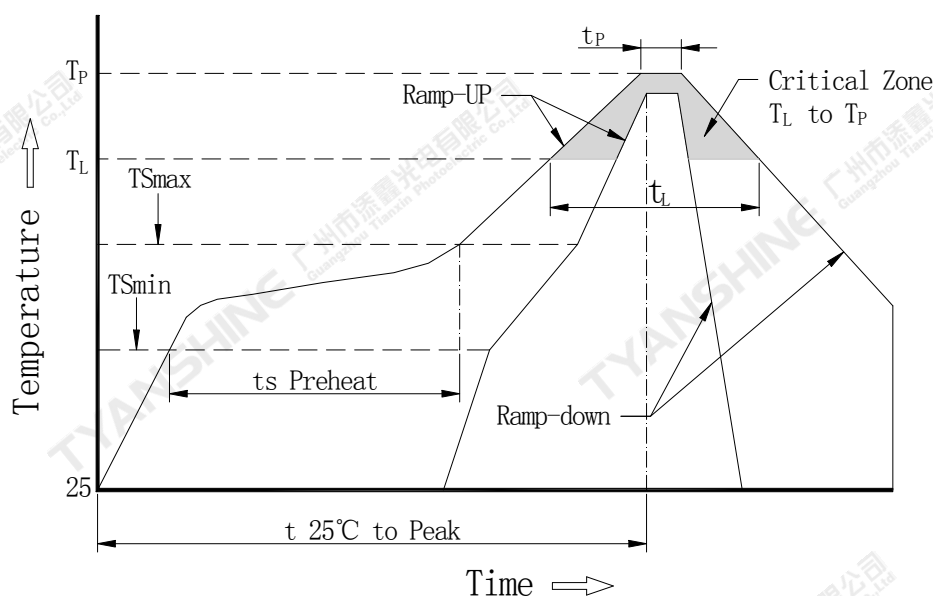
Storage Environment Condition

Temperature: 5°C ~ 30°C (41°F ~ 86°F)

Humidity: 60% RH Max.

Soldering Condition

Use the conditions shown to the under figure.



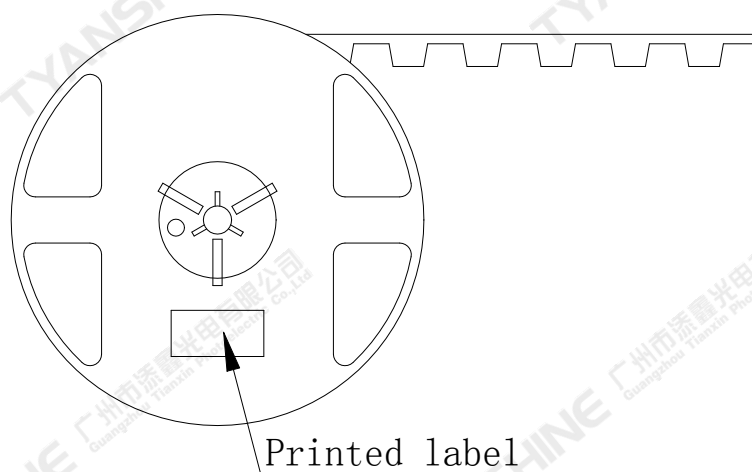
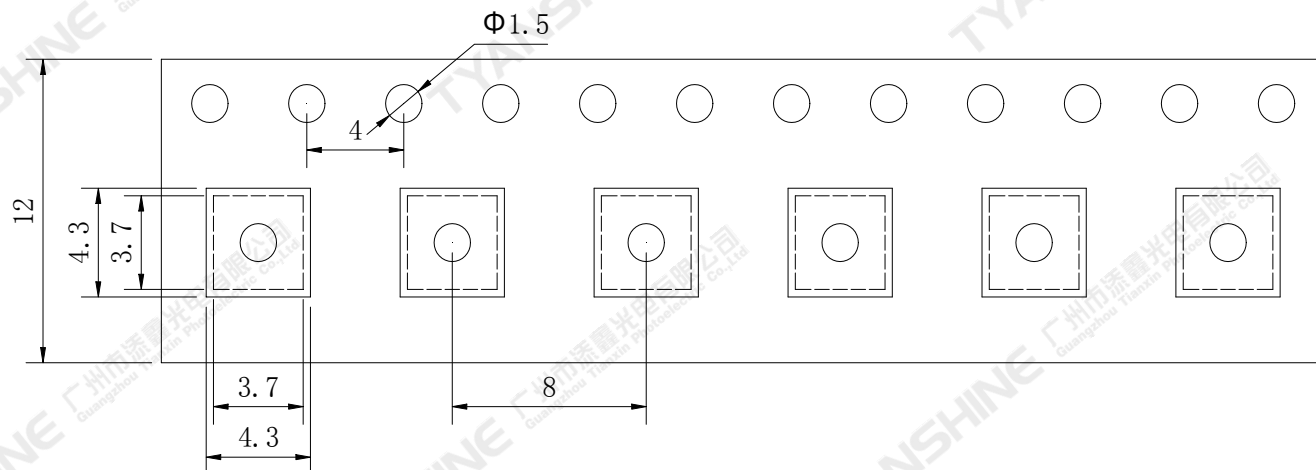
Profile Feature	Lead-Based Solder
Average Ramp-Up Rate (T_{Smax} to T_P)	3°C/second max.
Preheat: Temperature Min (T_{Smin})	100°C
Preheat: Temperature Max (T_{Smax})	150°C
Preheat: Time (T_{Smin} to T_{Smax})	60-120 seconds
Time Maintained Above: Temperature (T_L)	183°C
Time Maintained Above: Time (T_L)	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:1000 PCS



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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