

TX-1312SW08A-2760V39-03H90

PRODUCT SPECIFICATION

Features:

- ◆Excellent transiting heat from LED chip operating under 400mA.
- ◆Provide uniform cross distribution of positive white and warm white dual color scheme, mixed pure.
- ◆High luminous output.
- ◆No UV.
- ◆Encapsulated materials are environmentally certified and meet environmental requirements.

Chip Material:

- ◆GaInN

Emitting Color:

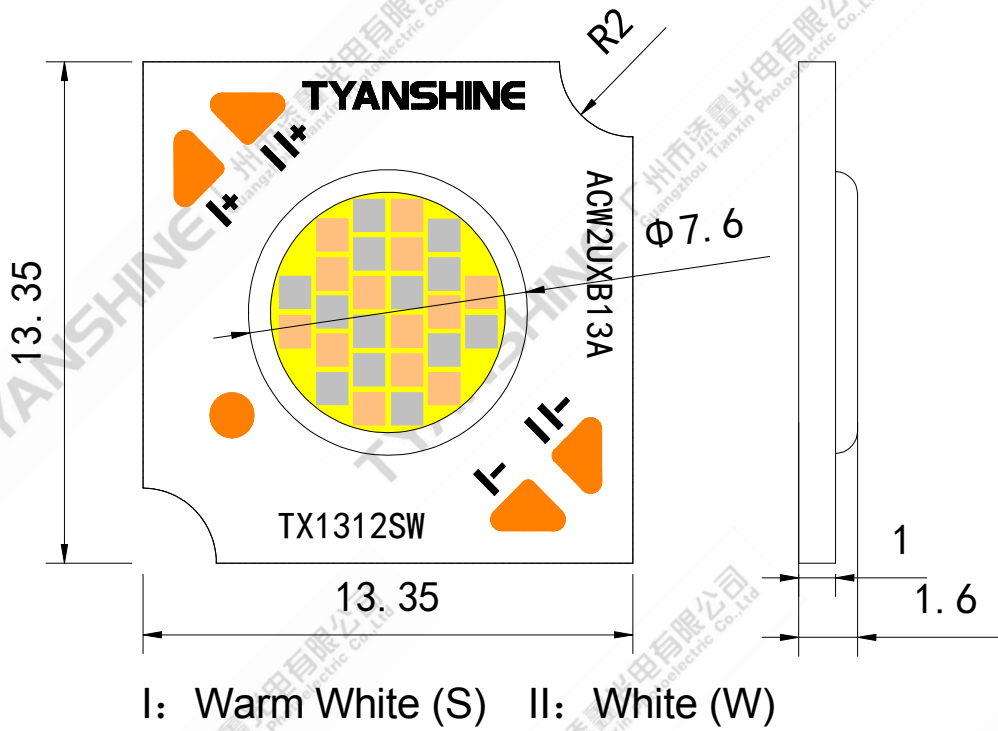
- ◆White
- ◆Warm white

Applications:

- ◆Commercial lighting
- ◆General Lighting

Part No.	TX-1312SW08A-2760V39-03H90	Spec No.	WKF-DA0074	Page	1 of 9
----------	----------------------------	----------	------------	------	--------

Package Dimensions:



Notes:

- 1.All dimensions are in millimeters.
- 2.Tolerances unless otherwise mentioned are $\pm 0.25\text{mm}$.

Code Formats:

TX-1312SW08A-2760V39-03H90

TX	—	13	12	SW	08	A	—	2760	V39	—	03	H90
TYANSHINE	—	series	watt type	performance	LES	texture	—	CCT	VOL TS	—	BOM	Ra

Part No.	TX-1312SW08A-2760V39-03H90	Spec No.	WKF-DA0074	Page	2 of 9
----------	----------------------------	----------	------------	------	--------

Absolute Maximum Ratings

Parameter	Symbol	Ratings	Unit
Forward Current	IF	400	mA
Reverse Voltage	VR	Not designed for reverse operation	V
Power Dissipation	PD	S	W
		W	
		S+W	
Junction Temperature	Tj	S	℃
		W	
Case Temperature (C)	Tc	85	℃
Electrostatic Discharge Threshold (ESD)	ESD	2000	V
Storage Temperature	Tstg	-30~+100	℃
Operation Temperature	Topr	-30~+80	

Notes:

- 1.Specifications are subject to change without notice.
- 2.The data on this specification is for reference only and the actual data is in accordance with the acknowledgment.
- 3.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=250mA	S	800	900	1040	lm
			W	900	1020	1150	
Forward Voltage	V_f		S	35	37	39	V
			W	35	37	39	
Correlated Colour Temperature	CCT		S	2620	2700	2780	K
			W	5750	6000	6700	
Viewing Angle at 50 % IV	$2\theta_{1/2}$		S	—	115	—	Deg
			W	—	115	—	
Reverse Current	I_R	—	—	—	—	μA	
Thermal Resistance Junction to Case	$R\theta_{J-C}$	—	—	—	2.6	—	K/W
Color Rendering Index	Ra	If=250mA	S	90	—	—	—
			W	90	—	—	

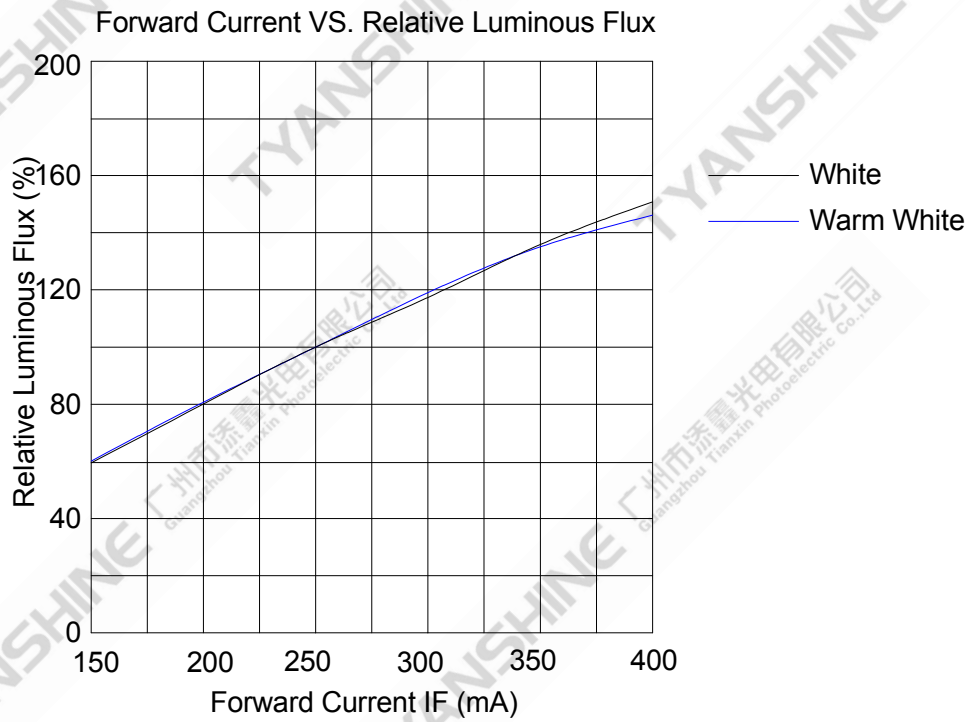
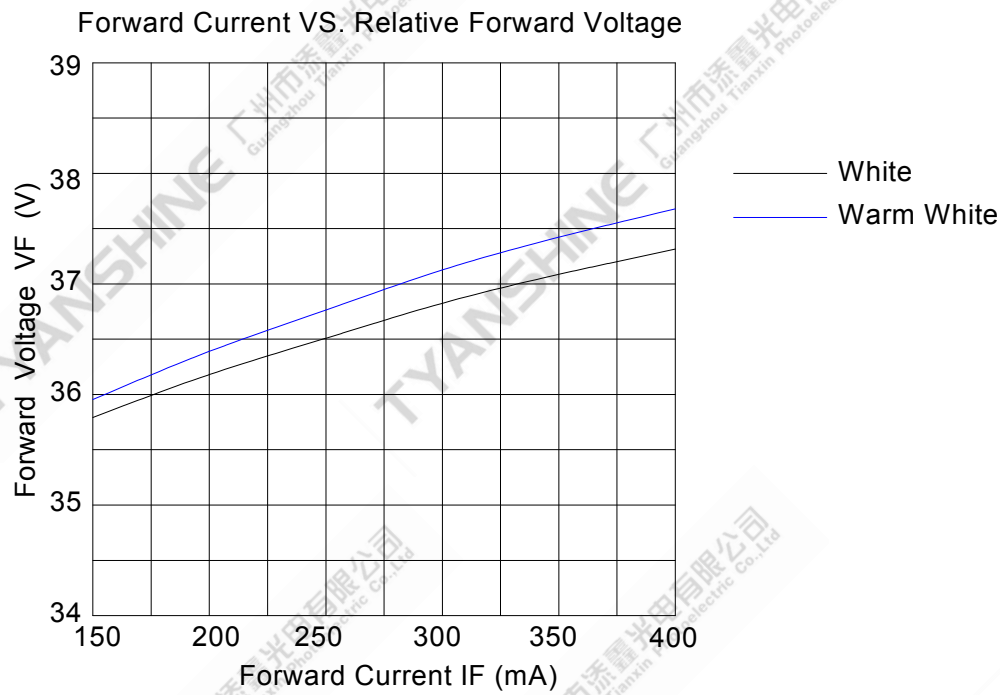
Notes:

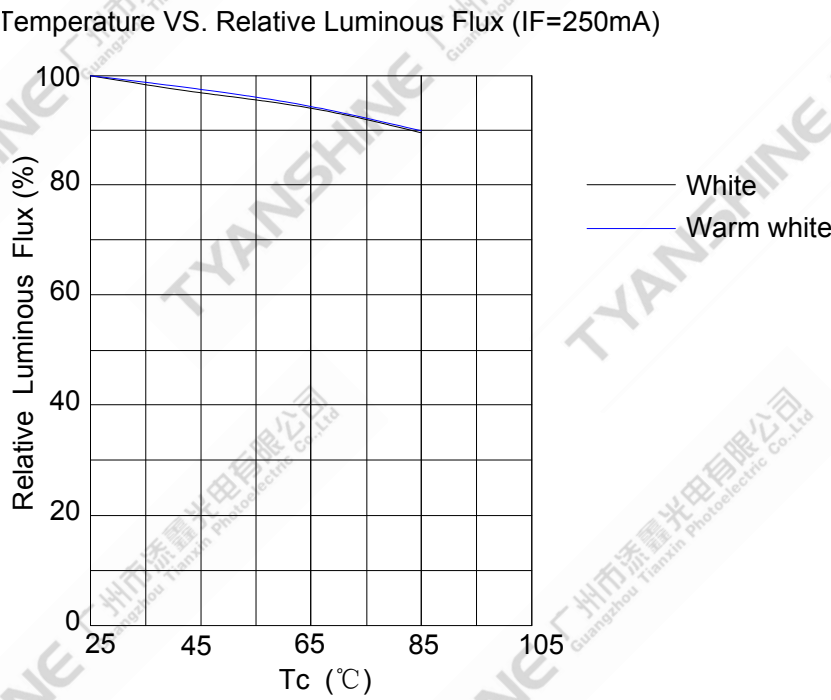
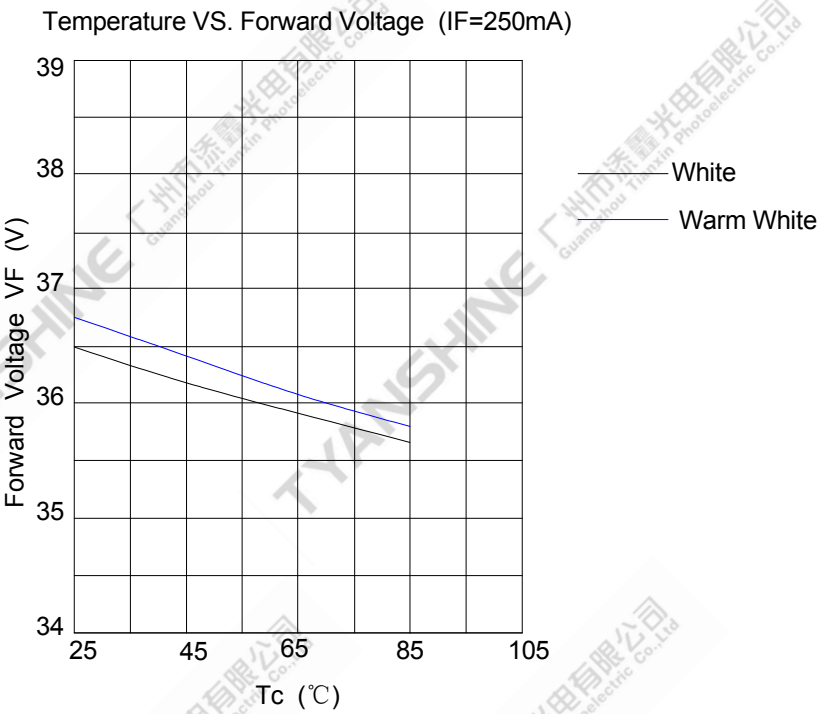
- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3.Luminous flux measurement tolerance: $\pm 15\%$.
- 4.Forward voltage measurement tolerance: $\pm 3\%$.
- 5.Ra measurement tolerance: ± 2 .

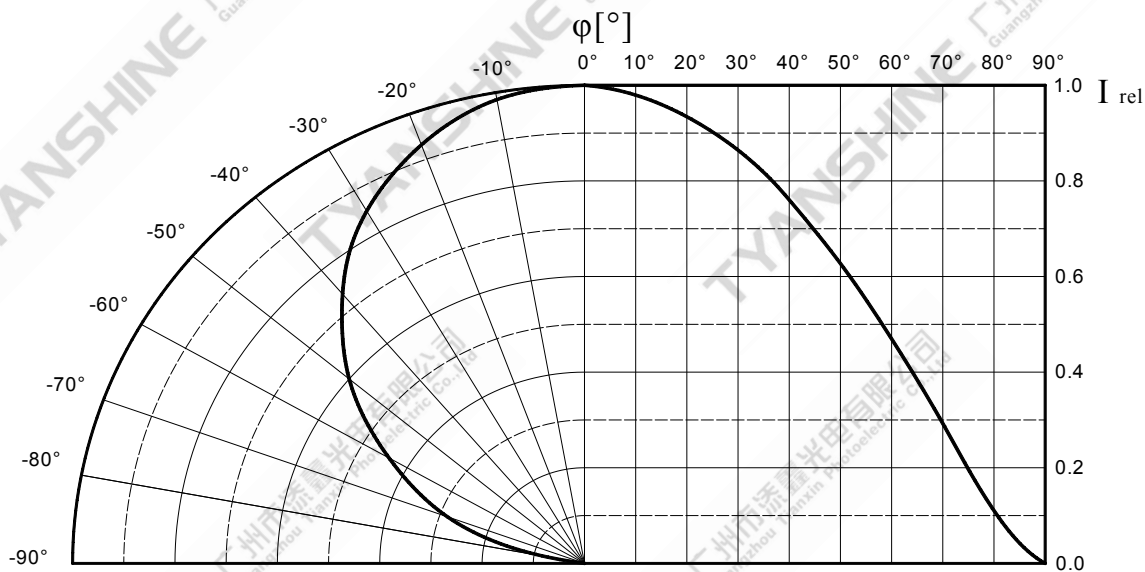
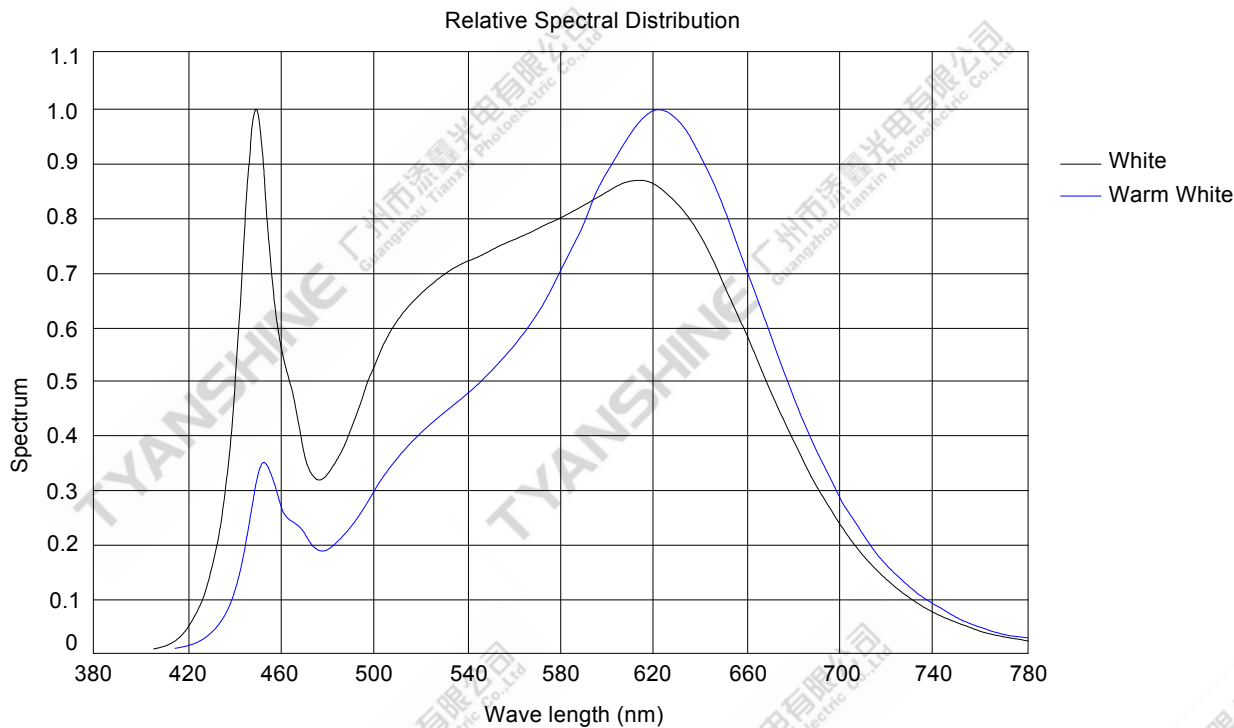
Part No.	TX-1312SW08A-2760V39-03H90	Spec No.	WKF-DA0074	Page	4 of 9
----------	----------------------------	----------	------------	------	--------

Typical Electrical/Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)



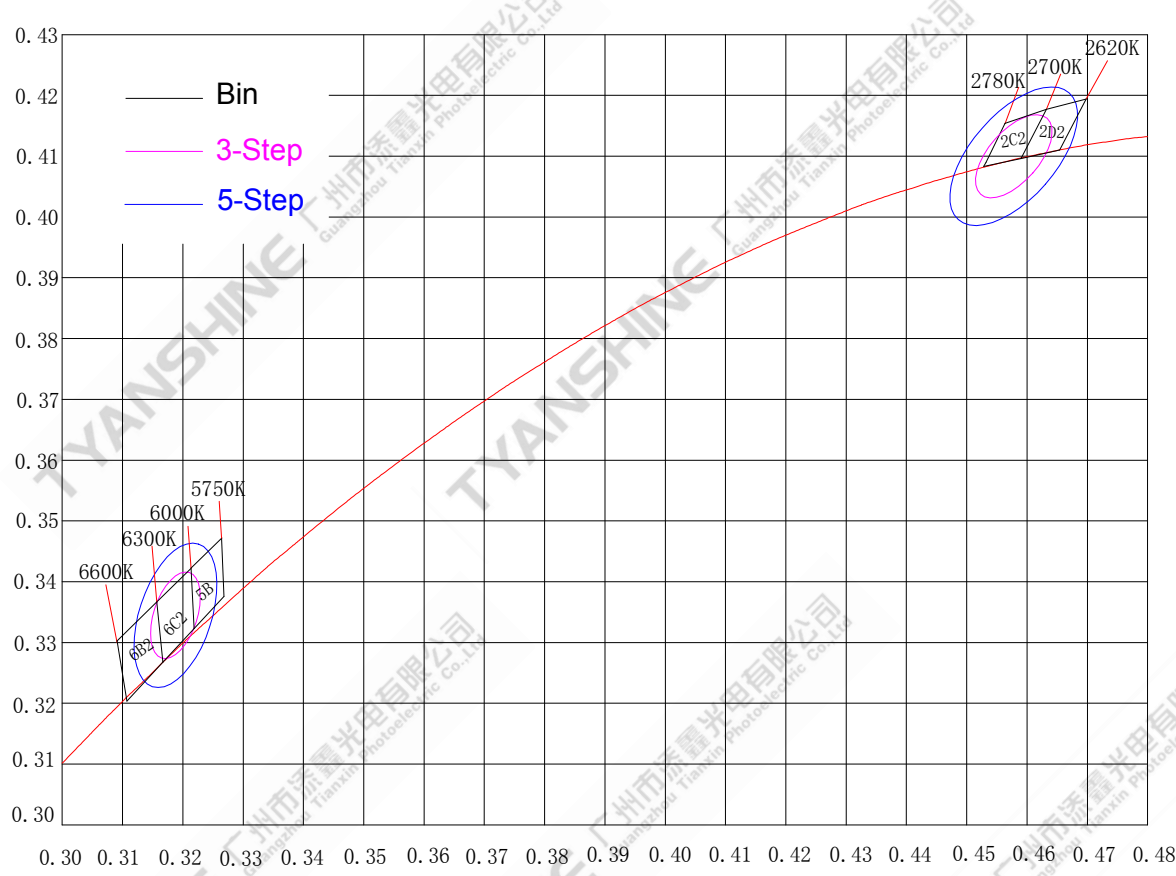




Notes:

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 $\pm 5^\circ$.

Chromaticity Coordinates (Condition : IF=250mA , Tc=25℃)



Notes:

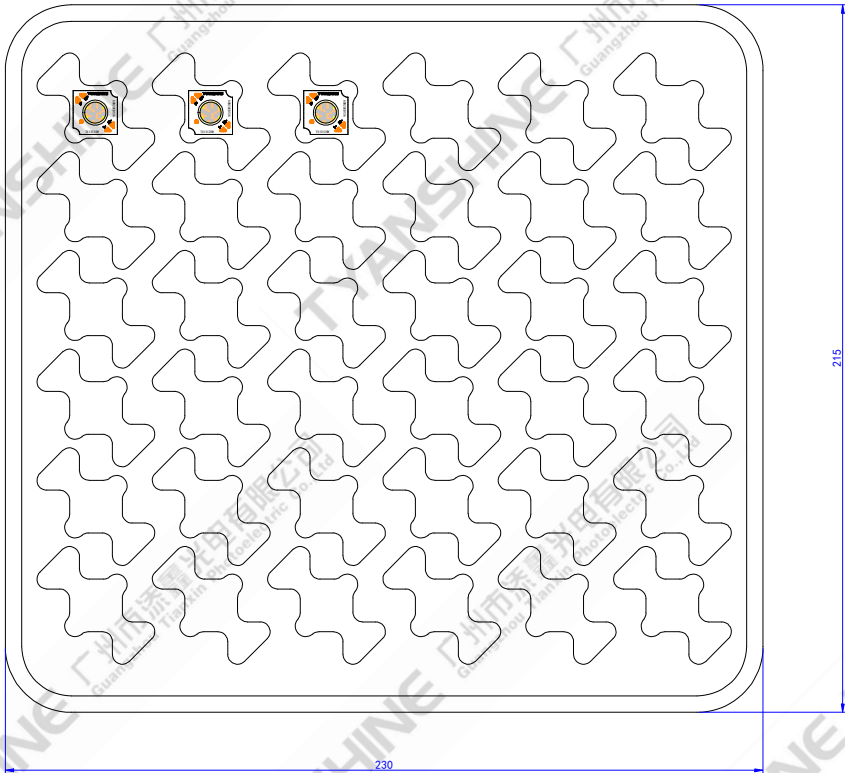
- 1. chromaticity (x, y) measurements tolerance: ±0.005.

Reliability Test

Test Item	Test Condition
Continuous Operation Test	IF=250mA Ta=25℃ × 1000hrs
Low Temperature Storage Test	-30℃ × 1000hrs
High Temperature Storage Test	100℃ × 1000hrs
Moisture-proof Test	85℃ , 85%RH for 500 hours
Thermal Shock Test	-30℃ × 30minutes-100℃ × 30minutes,100 cycle

Dimensions For Cannulation And Packaging

Quantity: 36PCS



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.