

TX-2828SW100C22F12-03H952770**PRODUCT SPECIFICATION****Features:**

- ◆Excellent transiting heat from LED chip operating under 3200mA.
- ◆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:

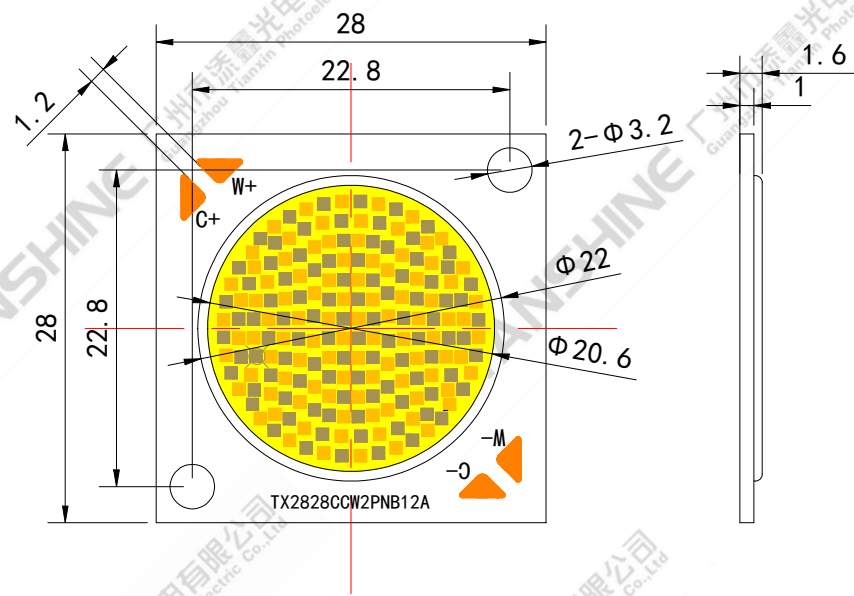
- ◆White
- ◆Warm white

Applications:

- ◆Commercial lighting
- ◆General Lighting

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Package Dimensions:



W: Warm White; C: White

Notes:

- 1.All dimensions are in millimeters .
- 2.Tolerances unless otherwise mentioned are ±0.25mm .

Code Formats:

TX-2828SW100C22F12-03H952770

TX	—	2828	SW	100	C	22	F	12	—	03	H95	2770
TYANSHINE	—	series	performance	watt typ	texture	LES	chip code	die count in series	—	BOM	Ra	CCT

Absolute Maximum Ratings

Parameter	Symbol	Ratings	Unit	
Forward Current	IF	3200	mA	
Reverse Voltage	VR	Not designed for reverse operation	V	
Power Dissipation	PD	W	120	W
		C	120	
		W+C	120	
Junction Temperature	Tj	W	150	℃
		C	150	
Case Temperature (C)	Tc	85	℃	
Electrostatic Discharge Threshold (ESD)	ESD	2000	V	
Storage Temperature	Tstg	-30~+80	℃	
Operation Temperature	Topr	-30~+85		

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.

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Electrical Optical Characteristics (Tc=25°C)

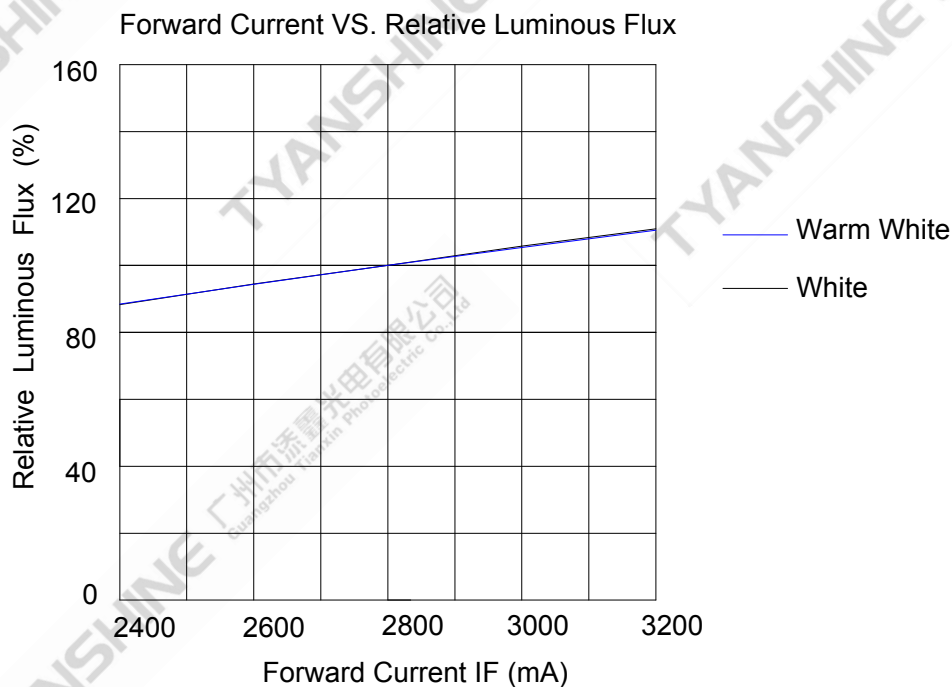
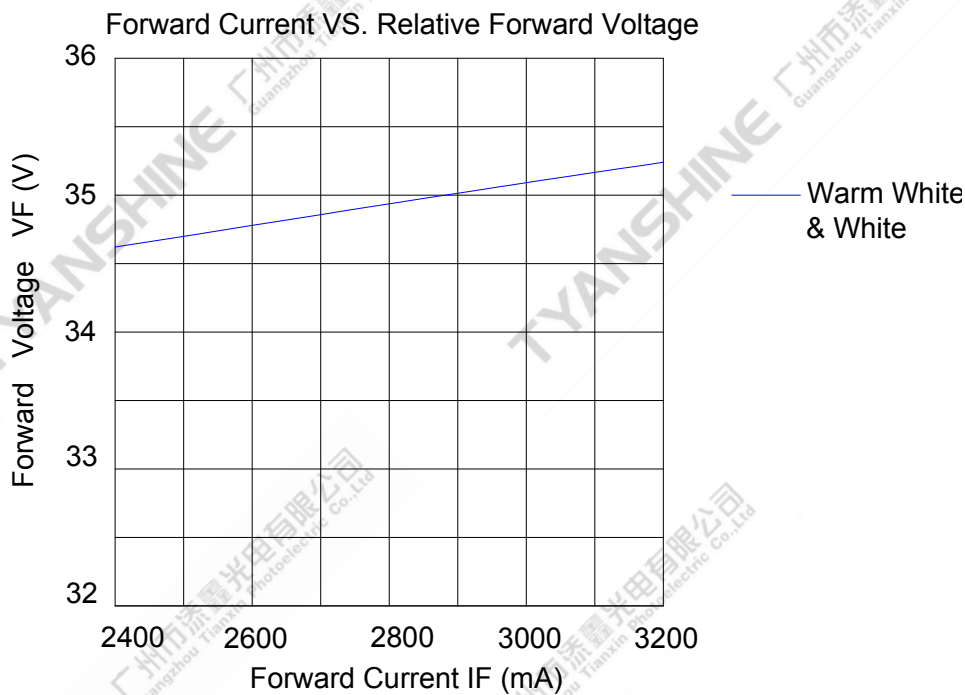
Parameter	Symbol	Condition	Emitting color	Min.	Typ.	Max.	Units
Luminous Flux	φ_v	If=2800mA	W	7000	8000	9000	lm
			C	9000	10500	12000	
Forward Voltage	V_f		W	33	35	37	V
			C	33	35	37	
Correlated Colour Temperature	CCT		W	2600	2670	2740	K
			C	6600	6900	7200	
Viewing Angle at 50 % IV	$2\theta_{1/2}$		W	—	115	—	Deg
			C	—	115	—	
Reverse Current	I_R	—	—	—	—	—	μA
Thermal Resistance Junction to Case	$R\theta_{J-C}$	If=2800mA	W	—	0.18	—	K/W
			C	—	0.18	—	
Color Rendering Index	Ra			—	95	—	—

Notes:

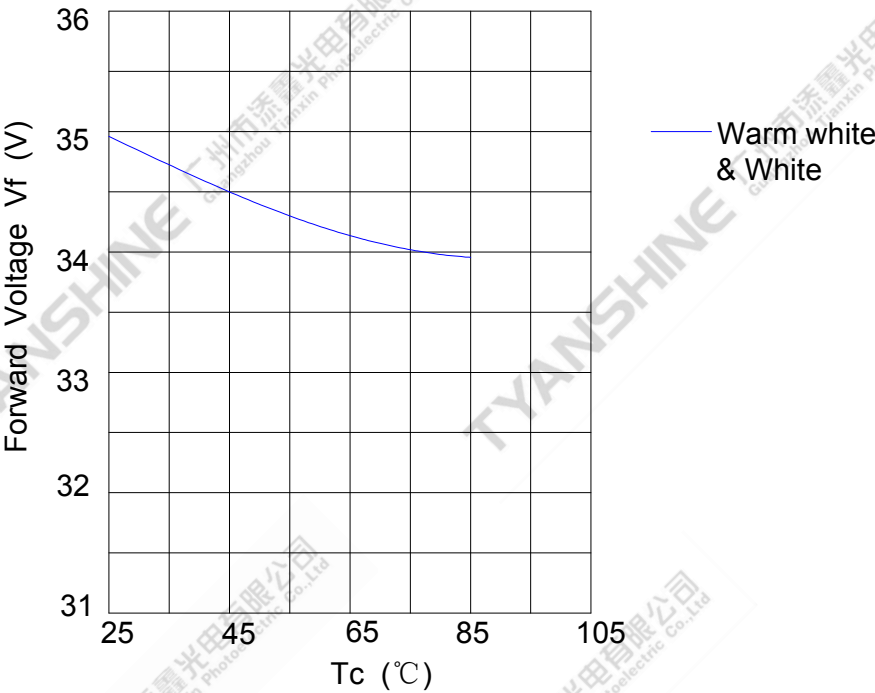
- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3.Luminous flux measurement tolerance: $\pm 15\%$.
- 4.Forward voltage measurement tolerance: $\pm 3\%$.
- 5.Ra measurement tolerance: ± 2 .
- 6.R15 measurement tolerance: -1.
- 7.RF measurement tolerance: -1

Typical Electrical/Optical Characteristics Curves

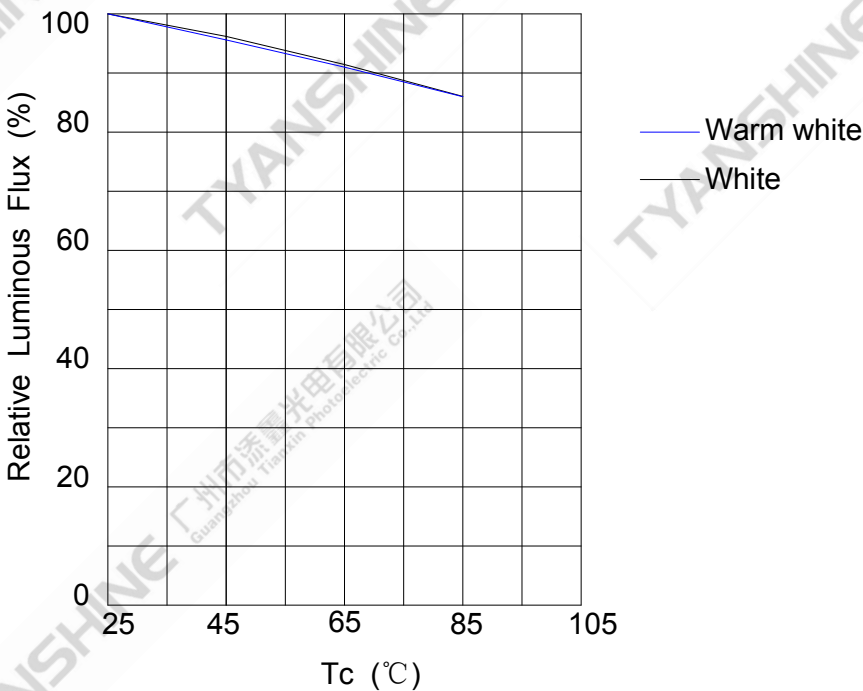
(25℃ Ambient Temperature Unless Otherwise Noted)

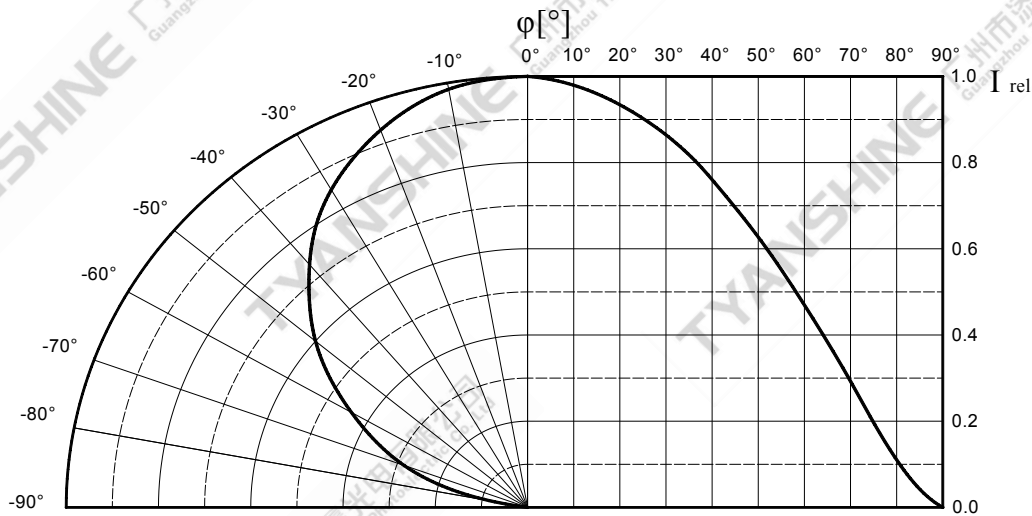
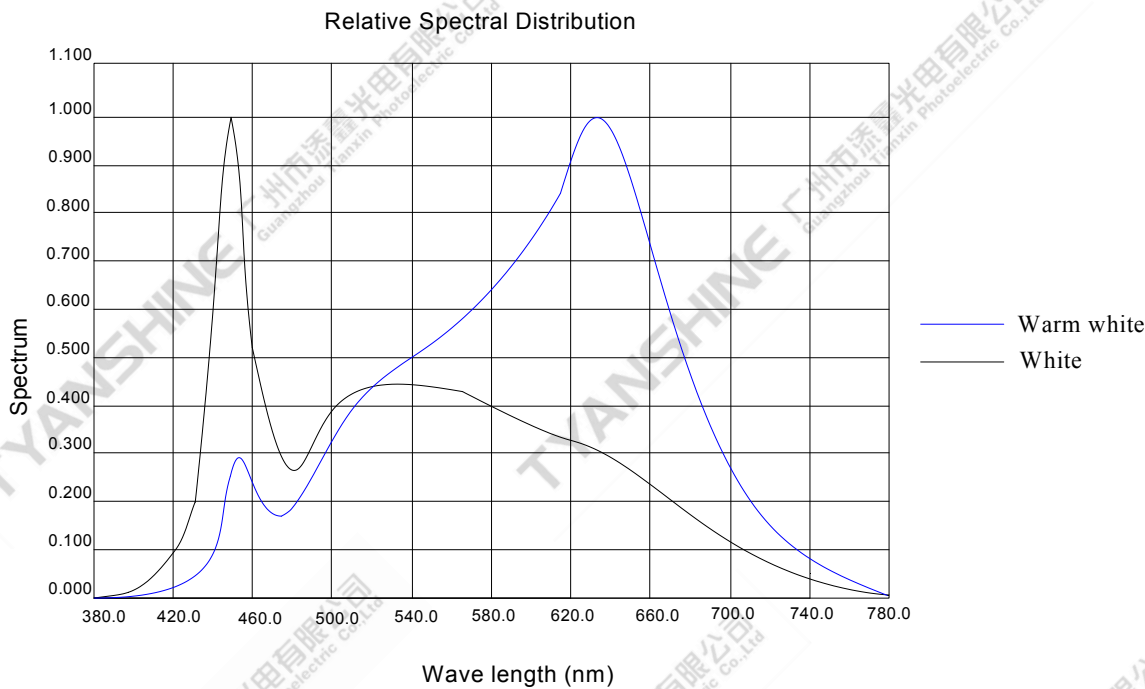


Temperature VS. Relative Luminous FLux (IF=2.8A)



Temperature VS. Forward Voltage (IF=2.8A)

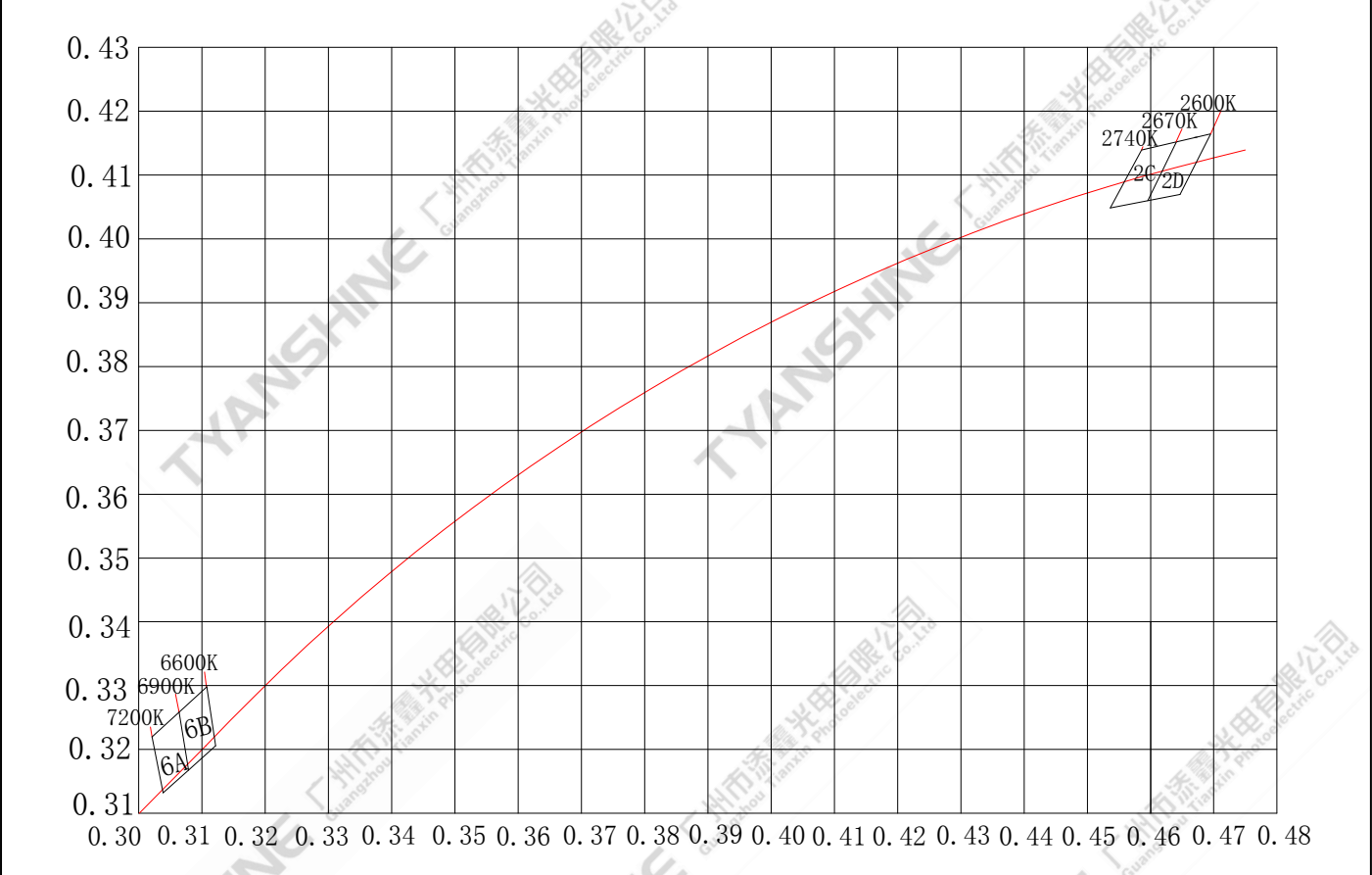




Notes:

- $2\theta_{1/2}$ is the off axis angle from lamp centerline where the luminous intensity is 1/2 of the peak value.
- View angle tolerance is $\pm 5^\circ$.

Chromaticity Coordinates (Condition : IF=2800mA , Tc=25℃)



Notes:

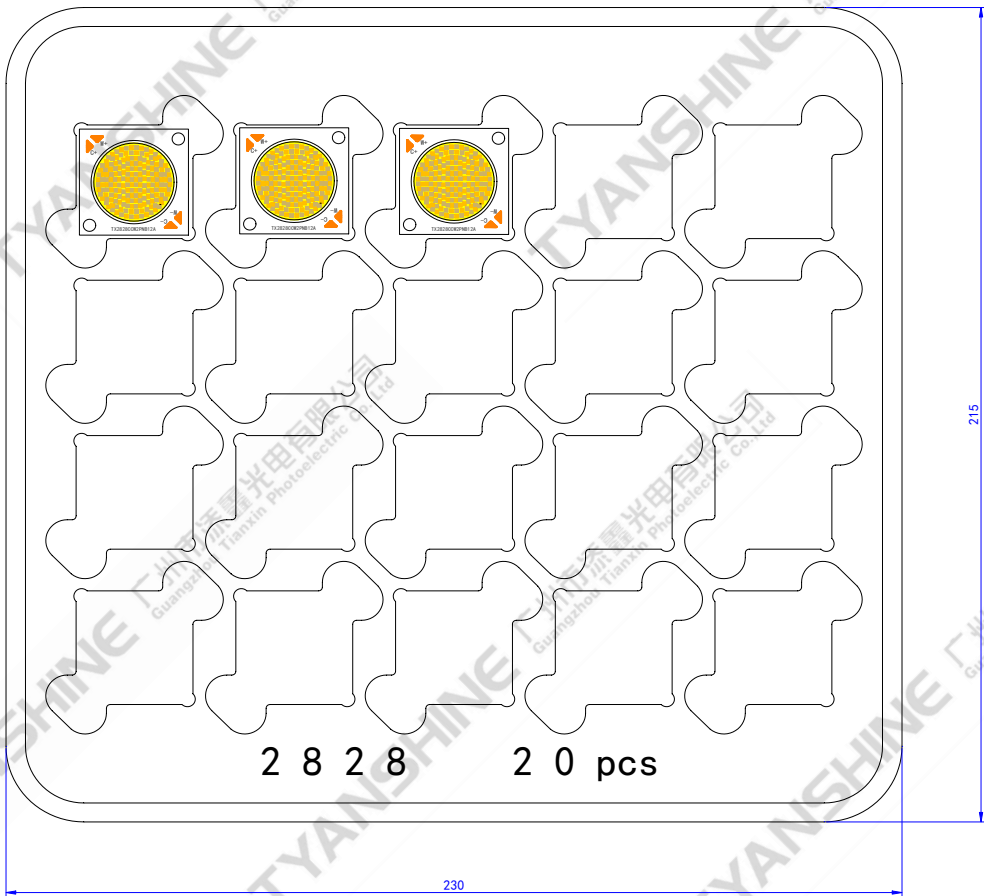
1. chromaticity (x, y) measurements tolerance: ±0.005.

Reliability Test

Test Item	Test Condition
Continuous Operation Test	IF=2800mA Ta=25℃ ×1000hrs
Low Temperature Storage Test	-30℃ × 1000 hours
High Temperature Storage Test	100 ℃ × 1000 hours
Moisture-proof Test	85 ℃, 85 %RH for 500 hours
Thermal Shock Test	-30 ℃ × 30 minutes – 100 ℃ × 30 minutes, 100 cycle

Dimensions For Cannulation And Packaging

Quantity:20 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.