

TX-5353SW230C30F14-03H952770**PRODUCT SPECIFICATION****Features:**

- ◆Excellent transiting heat from LED chip operating under 6A.
- ◆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:

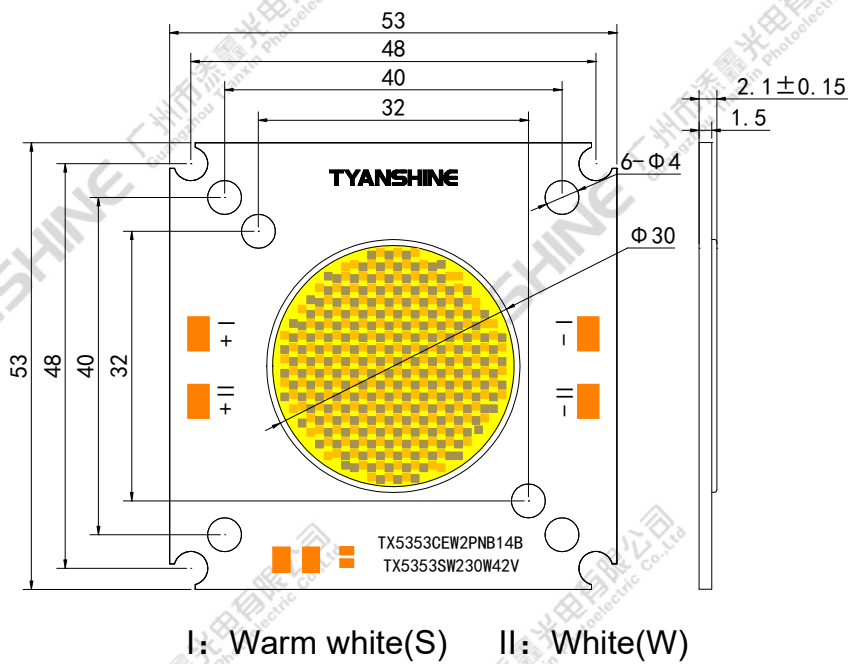
- ◆White
- ◆Warm white

Applications:

- ◆Commercial lighting
- ◆General Lighting

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Package Dimensions:



Notes:

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

Code Formats:

TX-5353SW230C30F14-03H952770

TX	—	5353	SW	230	C	30	F	14	—	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		6	A
Reverse Voltage	VR		Not designed for reverse operation	V
Power Dissipation	PD	S	250	W
		W	250	
		S+W	250	
Junction Temperature	Tj	S	150	℃
		W	150	
NTC Temperature (C)	Tc		75	℃
Electrostatic Discharge Threshold (ESD)	ESD		2000	V
Storage Temperature	Tstg		-30~+70	℃
Operation Temperature	Topr		-30~+75	

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=5.5A	S	18000	20100	22800	lm
			W	23800	26600	30100	
Forward Voltage	V_f		S	39	42	45	V
			W	39	42	45	
Correlated Colour Temperature	CCT		S	2600	2670	2740	K
			W	6600	6900	7200	
Viewing Angle at 50 % IV	$2\theta_{1/2}$		S	—	115	—	Deg
			W	—	115	—	
Reverse Current	I_R	—	—	—	—	μA	
Thermal Resistance Junction to Case	$R\theta_{J-C}$	If=5.5A	—	—	0.29	—	K/W
Color Rendering Index	R_a		S	95	—	—	—
			W	95	—	—	

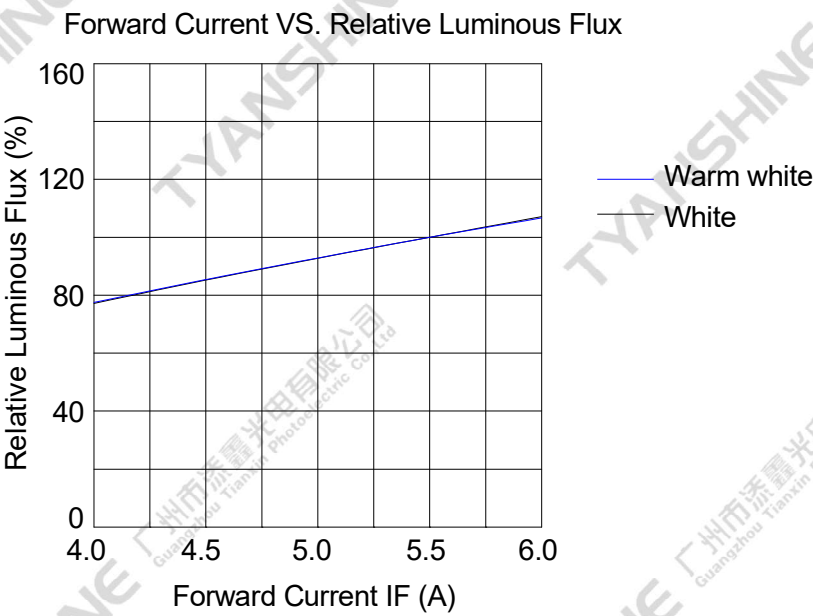
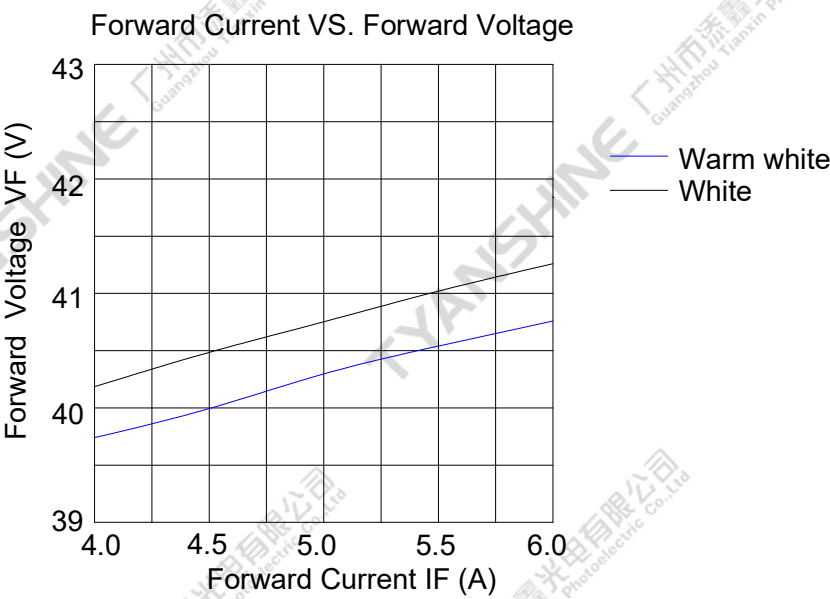
Notes:

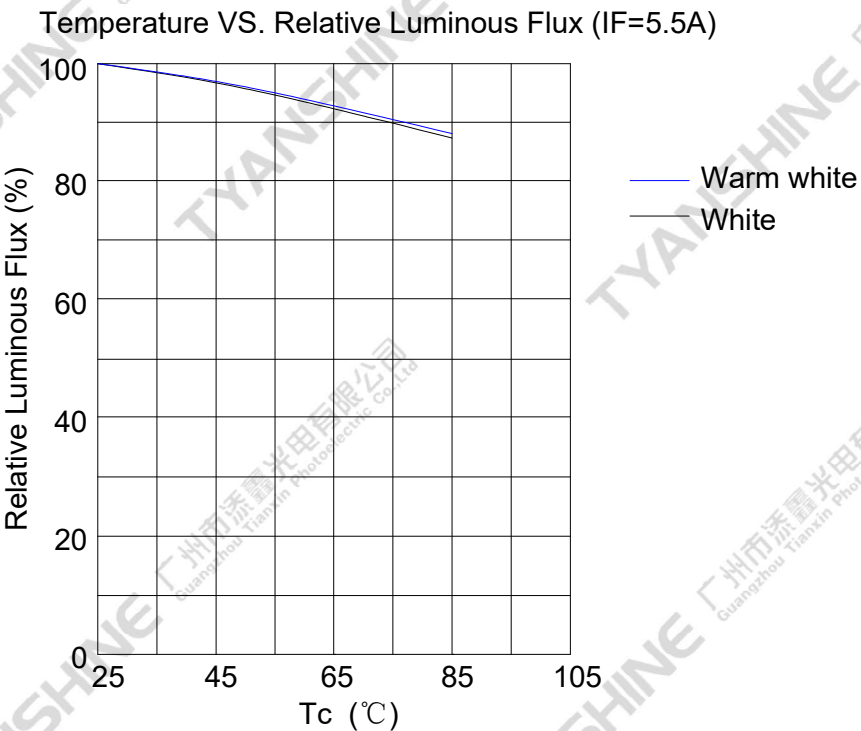
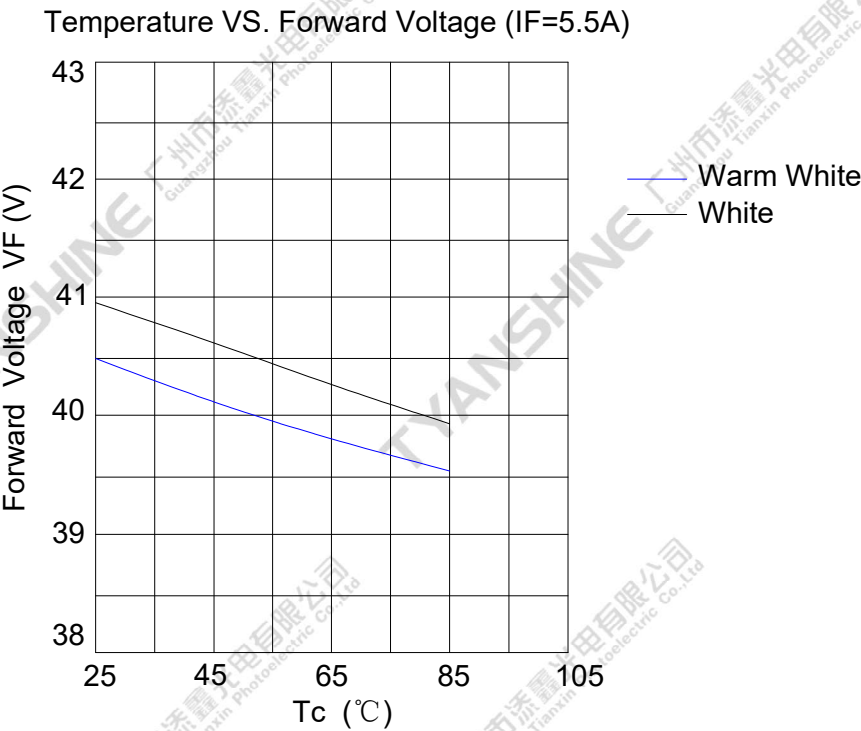
- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3.Luminous flux measurement tolerance: $\pm 15\%$.
- 4.Forward voltage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

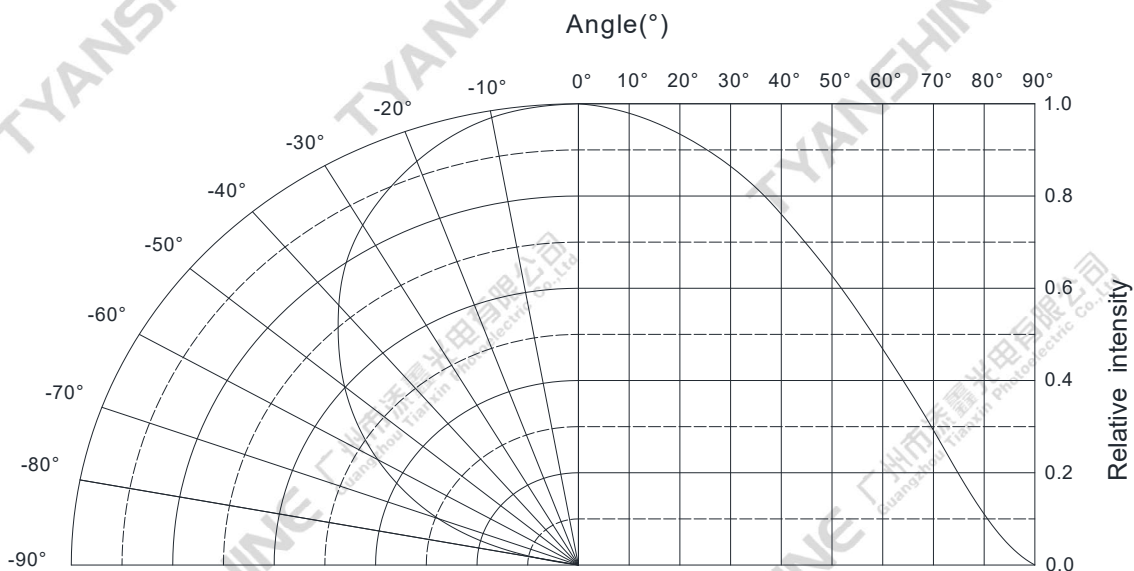
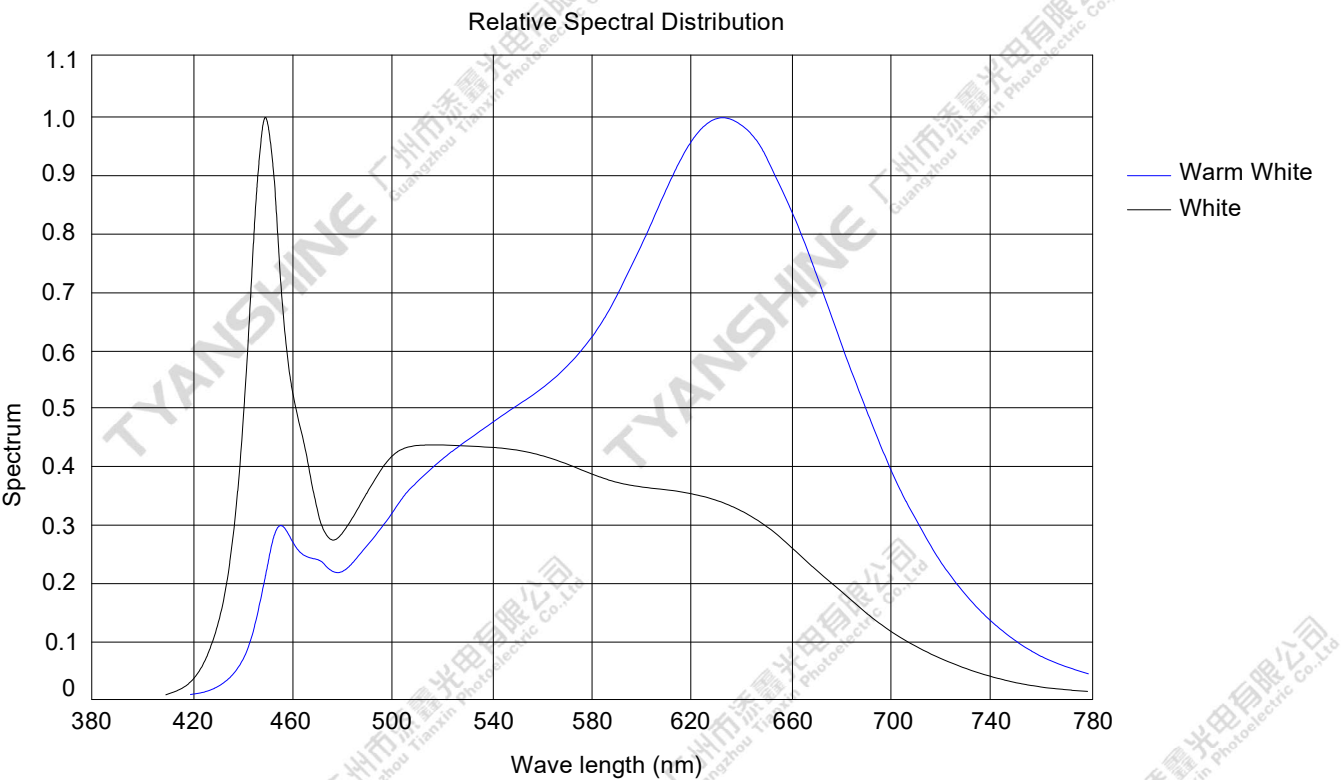
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Typical Electrical/Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)





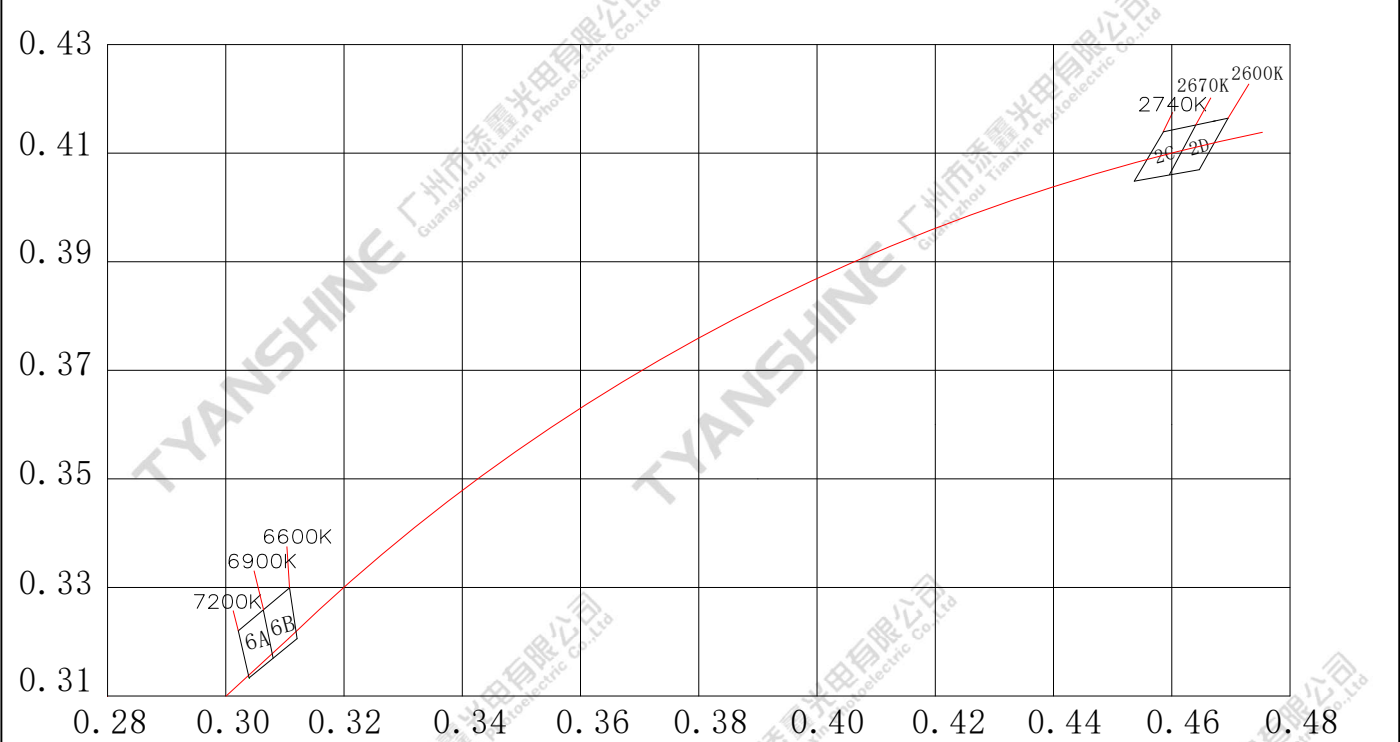


Notes:

- 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 $\pm 5^\circ$.

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Chromaticity Coordinates (Condition: IF=5.5A, Tc=25℃)



Notes:

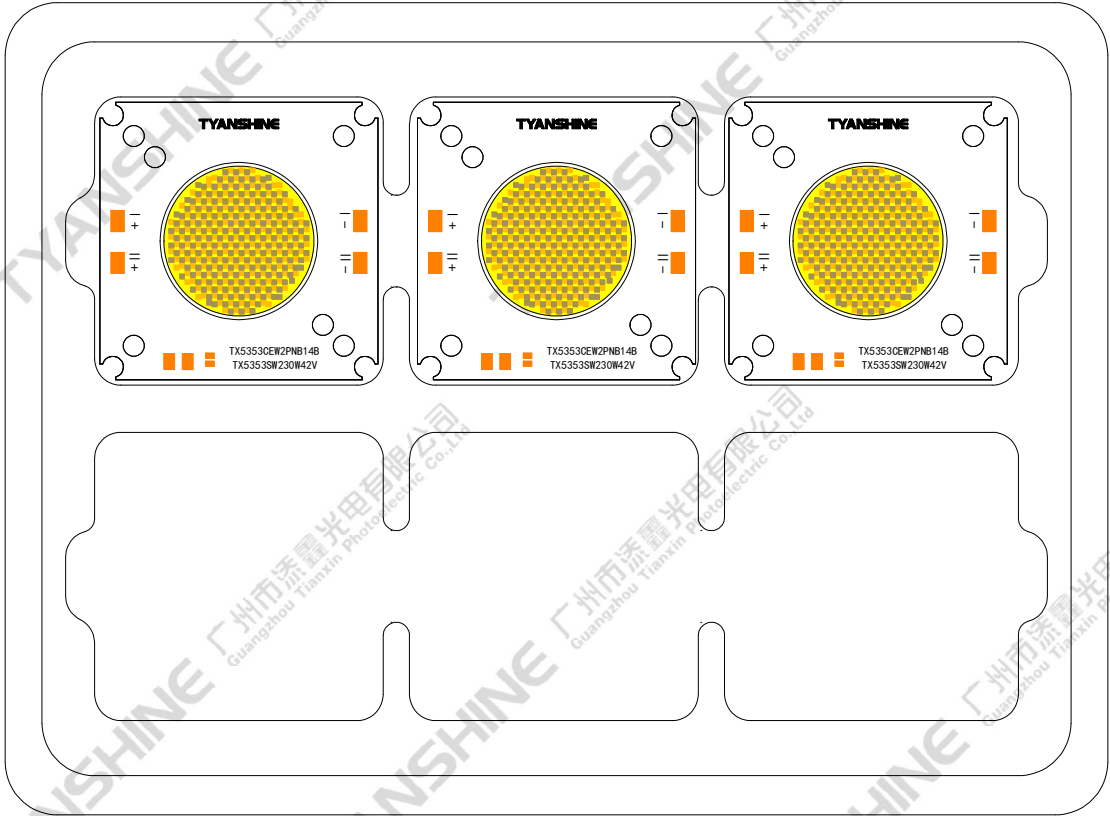
1.chromaticity (x, y) measurements tolerance:±0.005.

Reliability Test

Test Item	Test Condition
Continuous Operation Test	IF=5.5A 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	-40 ℃ × 15 minutes – 125 ℃ × 15 minutes, 100 cycle

Dimensions For Cannulation And Packaging

Quantity:6 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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