

TX-4566RGBW150FC120-NUVENG-02

PRODUCT SPECIFICATION

Features:

- ◆ Excellent transiting heat from LED chip operating under 1500mA.
- ◆ Light emitting area is small, power per unit area of up to 5W/mm².
- ◆ High luminous output.
- ◆ Encapsulated materials are environmentally certified and meet environmental requirements.

Chip Material:

- ◆ Red: AlInGaP
- ◆ Green: GaInN
- ◆ Blue: GaN
- ◆ White: GaN

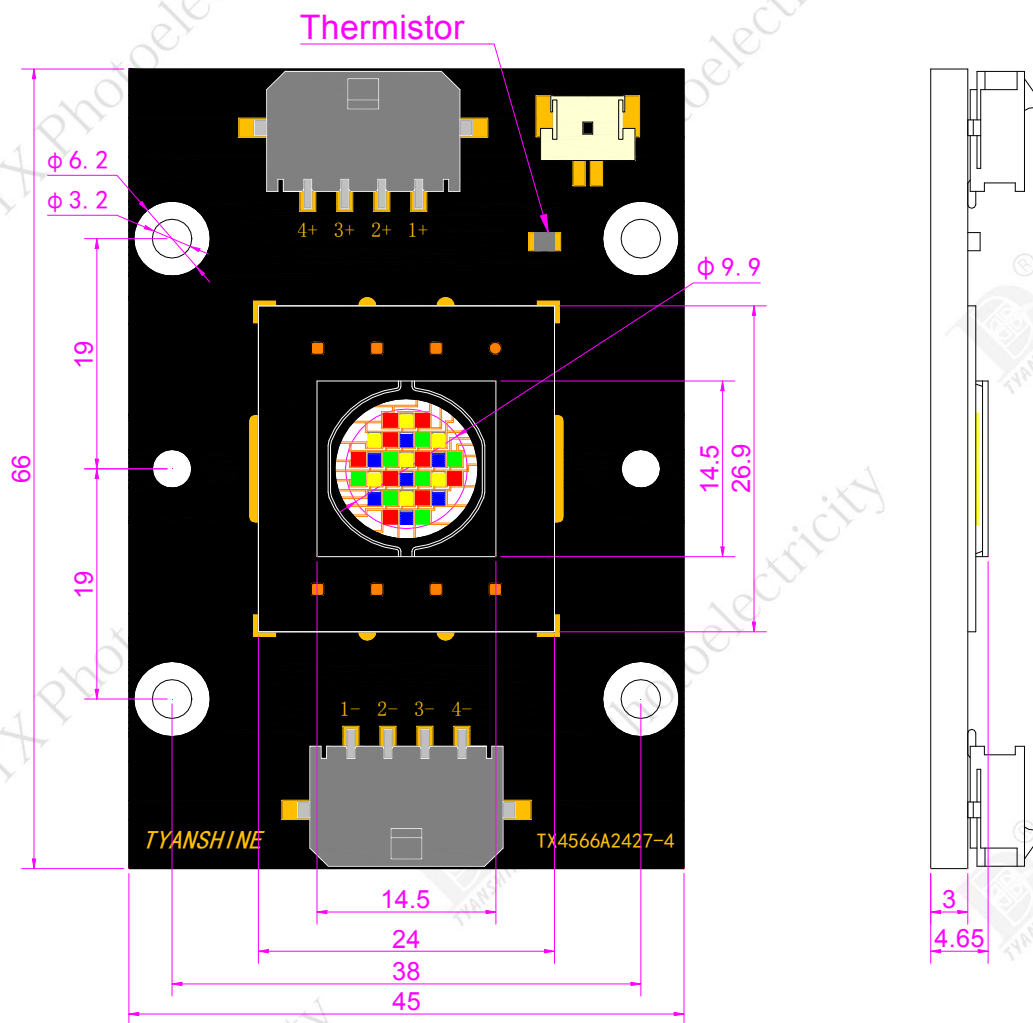
Emitting Color:

- ◆ Red
- ◆ Green
- ◆ Blue
- ◆ White

Applications:

- ◆ Stage lighting
- ◆ Landscape Lighting
- ◆ Entertainment lighting

Package Dimensions:



1-White ; 2-Green ; 3-Red ; 4-Blue

(The polarity of pins 1 and 3 is opposite to that of the above substrate)

Notes:

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

Absolute Maximum Ratings (Tc=25°C)

Parameter	Symbol	Max Ratings	Unit	
Forward Current	IF	R	1.8	A
		G	1.8	
		B	2.4	
		W	2.4	
Reverse Voltage	VR	Not designed for reverse operation	V	
Power Dissipation	PD	R	41.4	W
		G	41.4	
		B	52.8	
		W	52.8	
Junction Temperature	Tj	R	115	°C
		G	150	
		B	150	
		W	150	
Electrostatic Discharge Threshold (ESD)	ESD	2000	V	
Storage Temperature	Tstg	-40~70	°C	
Operation Temperature	Topr	-40~100		

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)

Parameter	Symbol	Condition	Emitting Color	Min.	Typ.	Max.	Units
Luminous Flux	ϕ_v	If=1500mA	R	870	1000	1200	lm
			G	1650	1800	1950	
			B	320	360	400	
			W	2250	2450	2600	
Dominant Wavelength	λ_d		R	620	625	630	nm
			G	518	523	528	
			B	450	453	460	
Correlated Colour Temperature	CCT		W	5500	6500	7500	K
Peak-emission Wavelength	λ_p		R	630	635	640	nm
			G	512	517	522	
			B	445	448	455	
Spectral Line Half-Width	$\Delta\lambda$		R	15	20	25	nm
		G	30	35	40		
		B	20	25	30		
		W	20	25	30		
Forward Voltage	V_f	R	21	23	25	V	
		G	21	23	25		
		B	20	22	24		
		W	20	22	24		
Reverse Current	I_R	—	—	—	—	μA	
Viewing Angle at 50 % IV	$2\theta_{1/2}$	—	—	—	120	Deg	
Thermal Resistance Junction to Case	$R\theta_{J-C}$	—	—	—	0.22	K/W	
Temperature Coefficient of Voltage	$V\Delta F/T$	R	—	-6.2	—	mV/°C	
		G	—	-18.4	—		
		B	—	-13.1	—		
		W	—	-11.6	—		
Thermistor(NTC)	Rt25	—	—	—	10	K Ω	

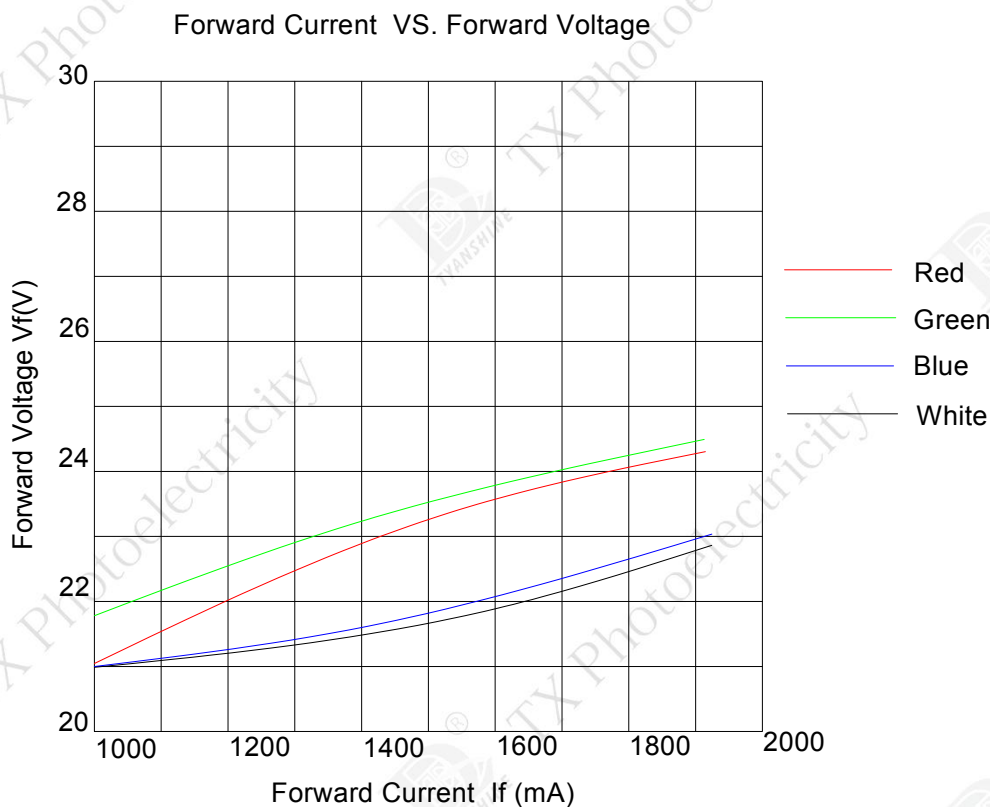
Notes:

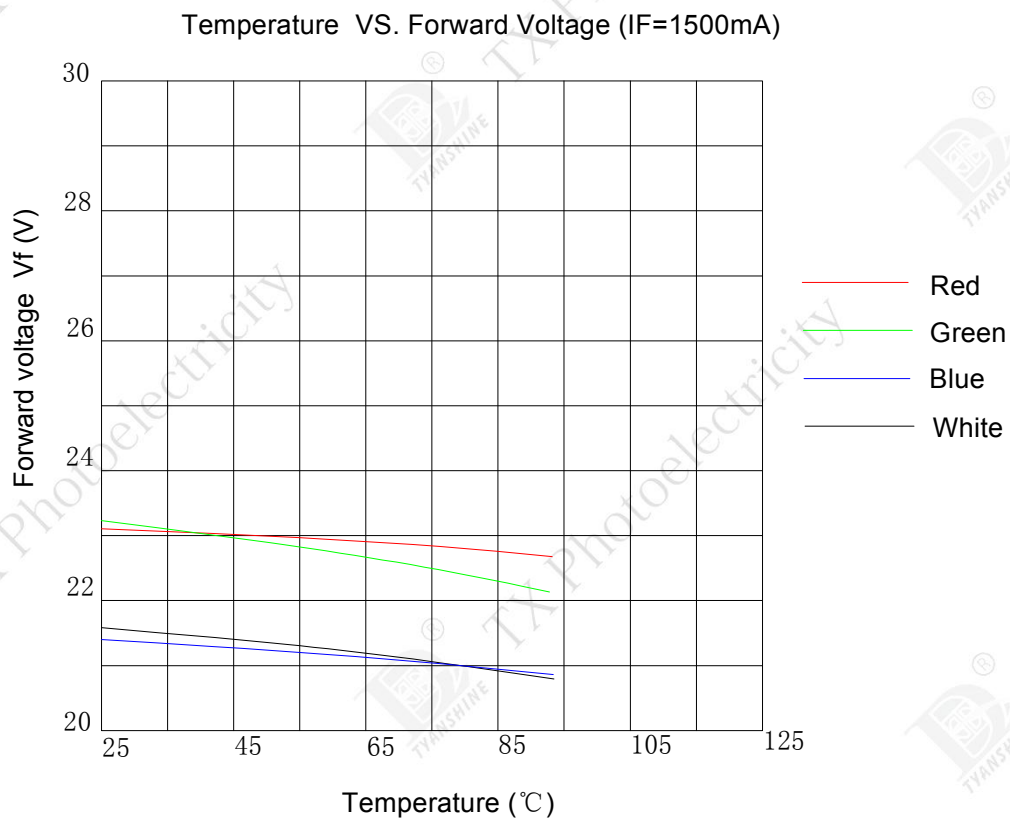
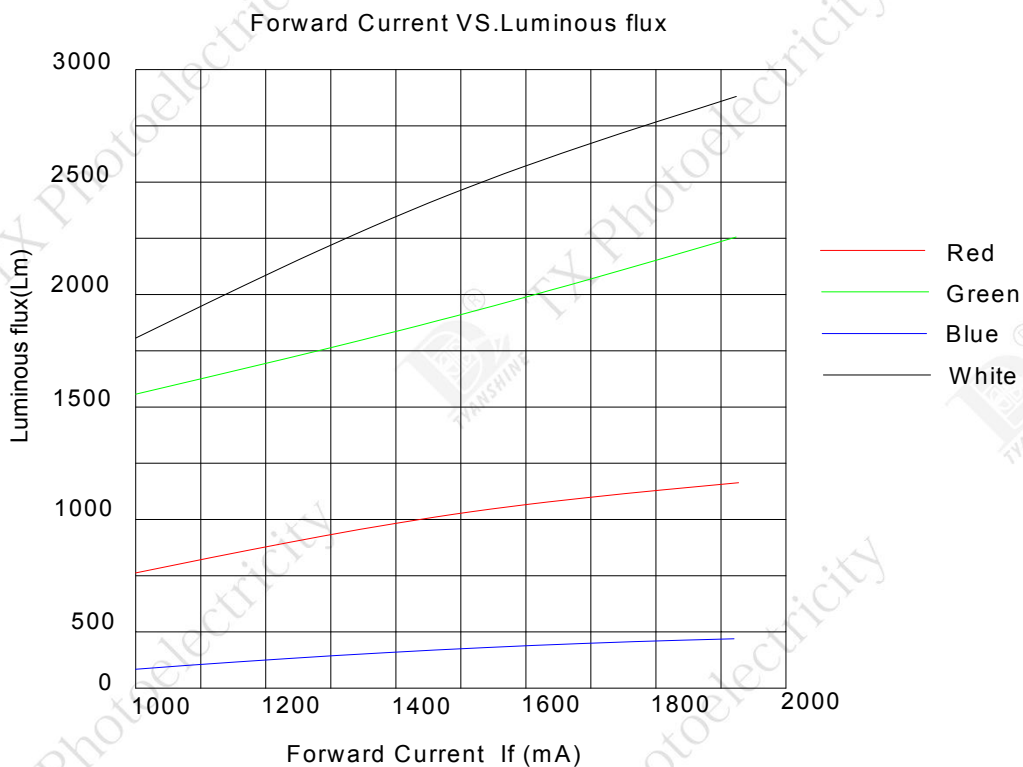
1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.

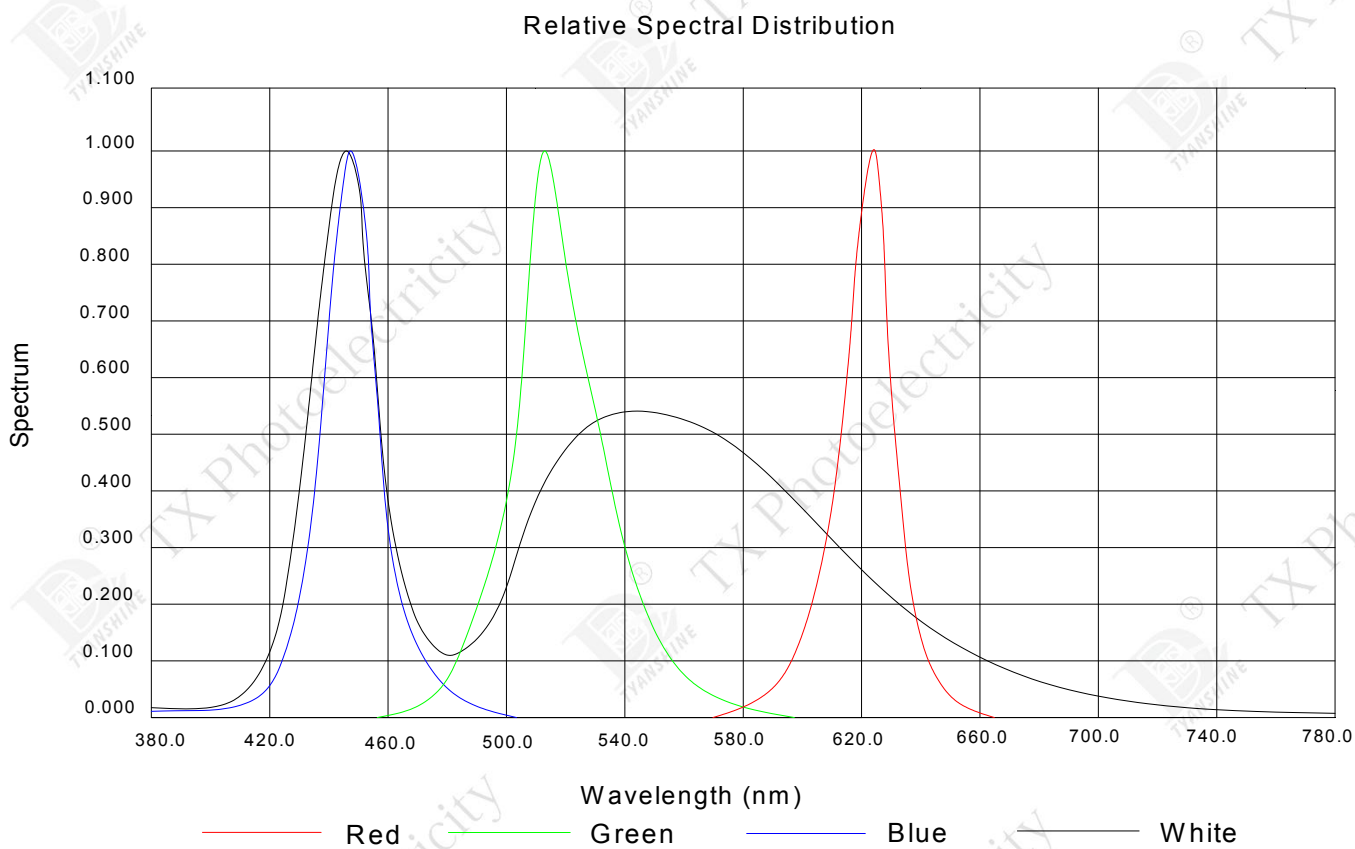
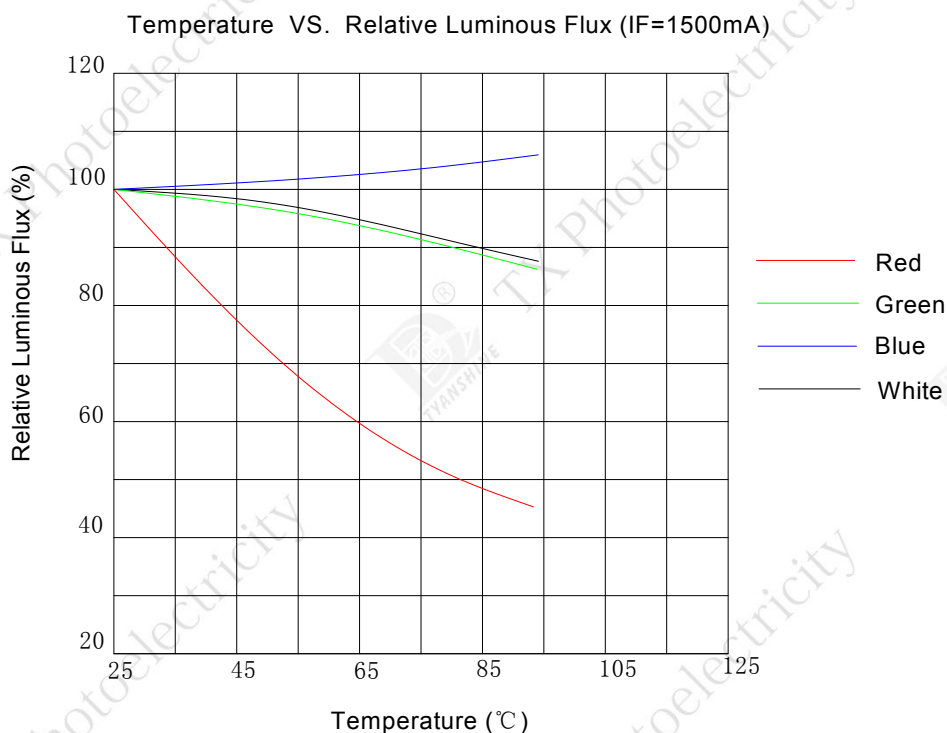
- 2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3. The dominant wavelength (λ_d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
- 4. Luminous flux measurement tolerance: $\pm 15\%$.
- 5. Forward voltage measurement tolerance: $\pm 0.15V$.

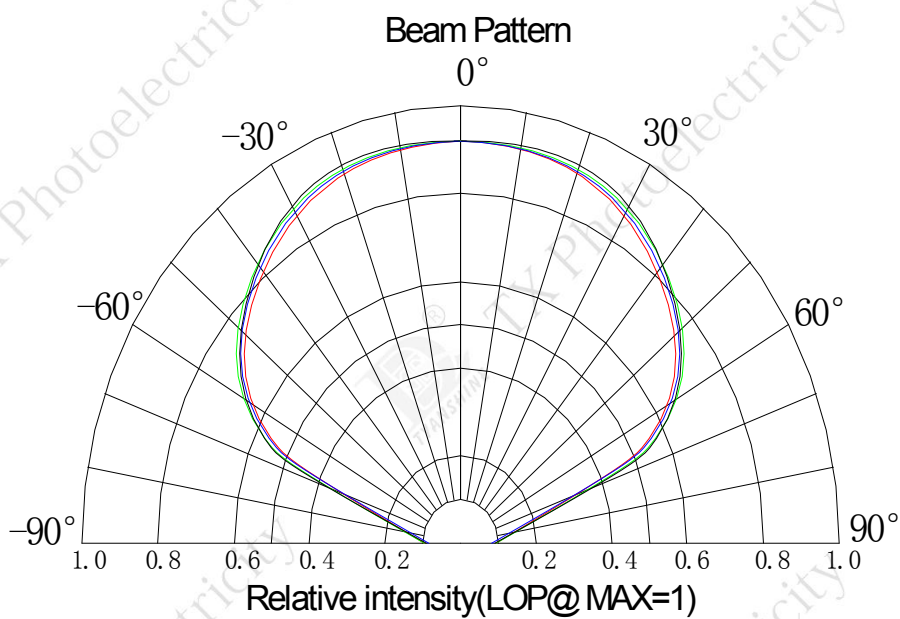
Typical Electrical/Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)







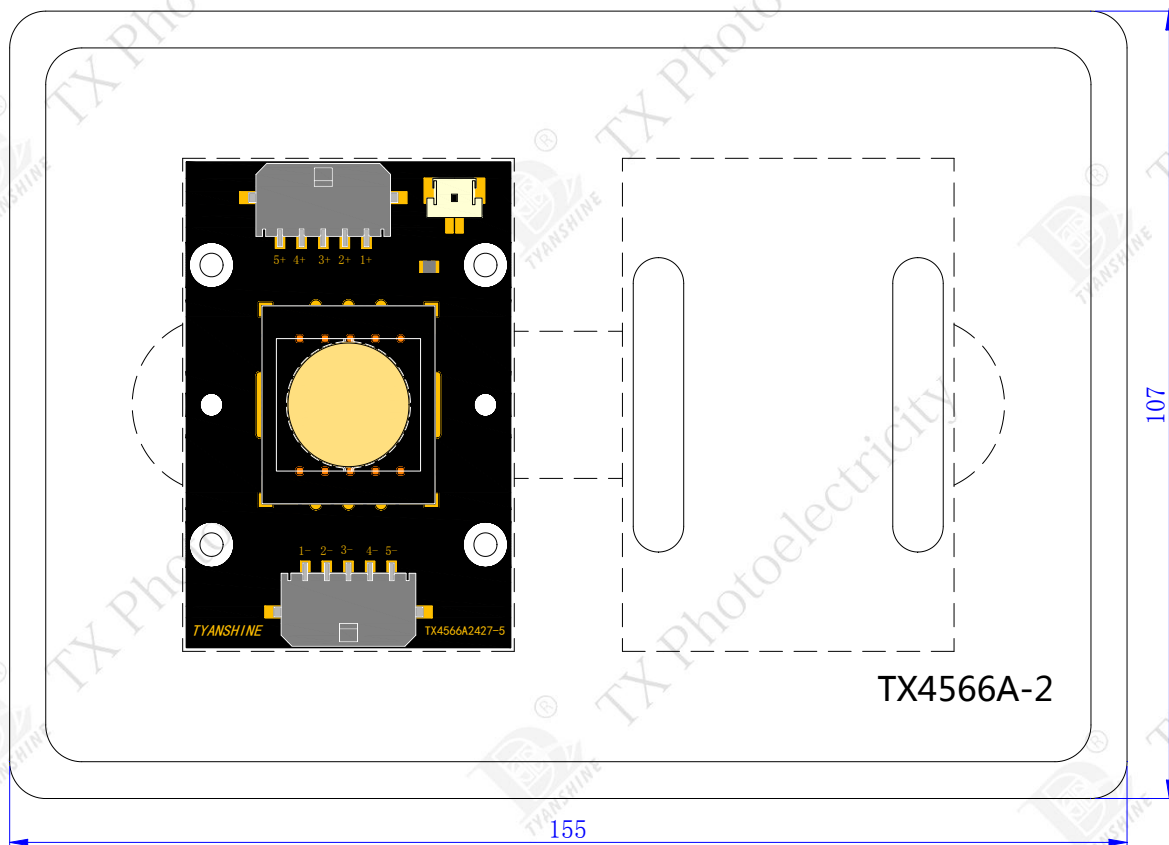


Notes:

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 $\pm 5^\circ$.

Dimensions For Cannulation And Packaging

Quantity: 2PCS



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.