

TXD-1919RGBW70C12V12-02H90

PRODUCT SPECIFICATION

Features:

- ◆Excellent transiting heat from LED chip operating under R:IF=450mA,G/B/W:IF=500mA .
- ◆Mixing any two colors of light,there will be no partial color and color spots uneven phenomenon.
- ◆High luminous output.
- ◆No UV.
- ◆Encapsulated materials are environmentally certified and meet environmental requirements.

Chip Material:

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

Emitting Color:

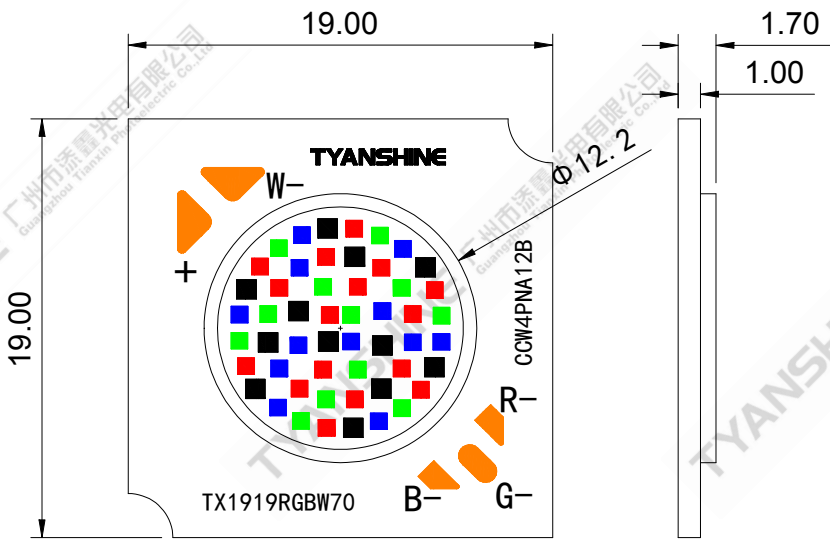
- ◆Red
- ◆Green
- ◆Blue
- ◆White

Applications:

- ◆Indoor lighting
- ◆Outdoor lighting
- ◆Industrial Lighting
- ◆Consumer Lighting
- ◆Consumer Lighting

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Package Dimensions:



Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ± 0.25 mm (0.01") unless otherwise noted.

Absolute Maximum Ratings at Ta=25℃

Parameter	Symbol	MAX.	Unit
LED Junction Temperature	T _j	R:115 / G/B/W:135	℃
Power Dissipation	P _D	R	18
		G	18
		B	18
		W	18
Continuous Forward Current	I _F	R	450
		G	500
		B	500
		W	500
Case Temperature (C) (基板温度)	T _c	70	℃
Reverse Voltage	V _R	—	V
Electrostatic Discharge Threshold (ESD)	ESD	2000	V
Operating Temperature Range	T _{opr}	-30 to +70	℃
Storage Temperature Range	T _{spr}	-30 to +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.

Characteristics (Ta=25°C,R:IF=450mA,G/B/W/S:IF=500mA):

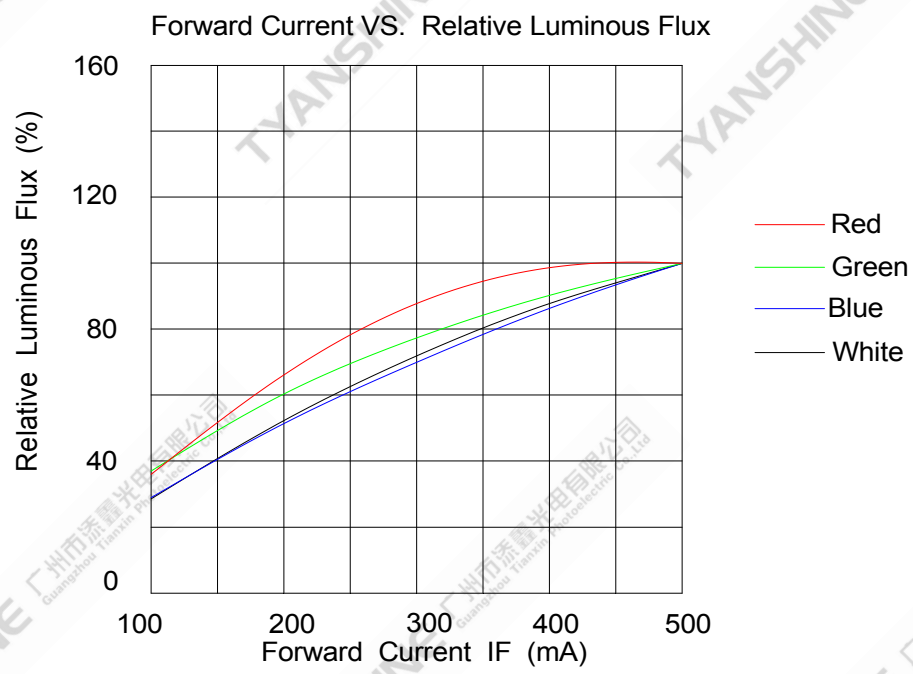
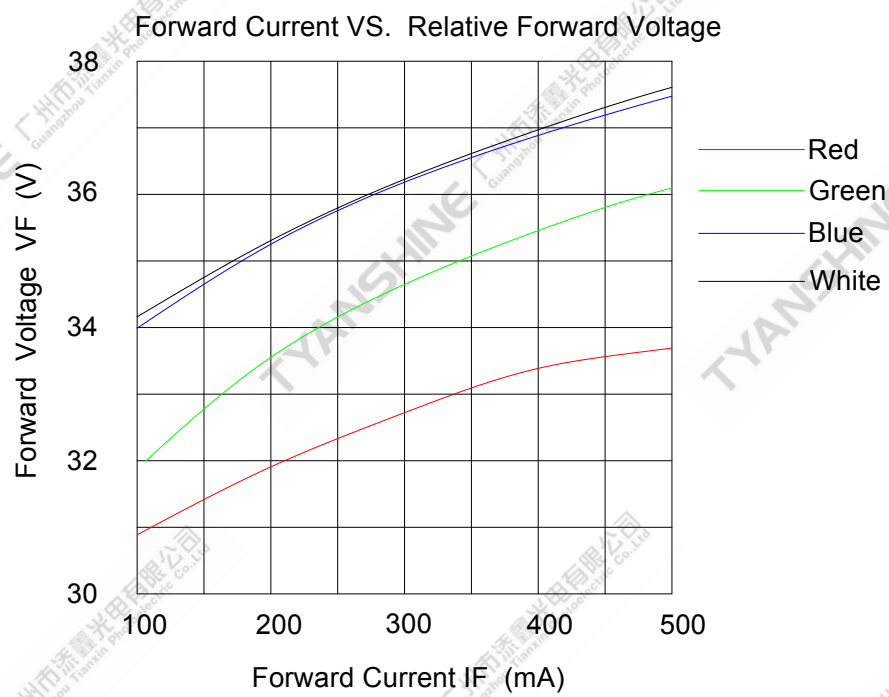
Parameter	Symbol	Emitting Color	Values			Units
			Min.	Typ.	Max.	
Luminous Flux	ϕ_v	R	550	700	—	lm
		G	920	1160	—	
		B	230	290	—	
		W	1020	1200	—	
Viewing Angle at 50 % IV	$2\theta_{1/2}$	R	—	115	—	Deg
		G	—	115	—	
		B	—	115	—	
		W	—	115	—	
Peak Emission Wavelength	λ_p	R	630	635	640	nm
		G	515	520	525	
		B	445	450	455	
Dominant Wavelength	λ_d	R	620	625	630	nm
		G	522	527	532	
		B	450	455	460	
Spectral Line Half-Width	$\Delta\lambda$	R	15	20	25	nm
		G	25	30	35	
		B	15	20	25	
Forward Voltage	V_f	R	31	33	36	V
		G	33	36	39	
		B	33	36	39	
		W	33	36	39	
Correlated Colour Temperature	CCT	W	5500	—	6000	K
Color Rendering Index	Ra	W	90	—	—	

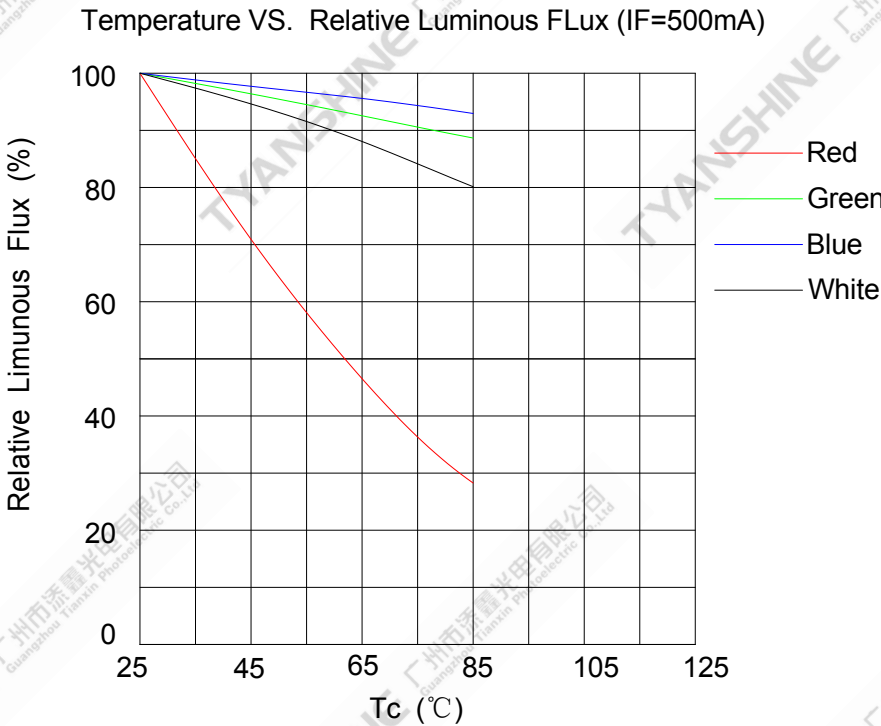
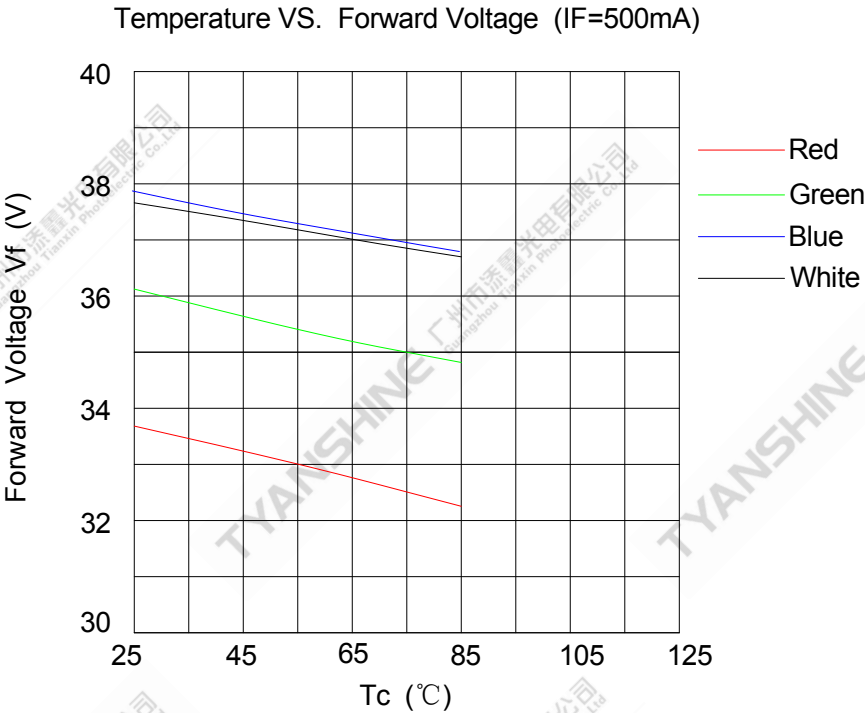
Notes:

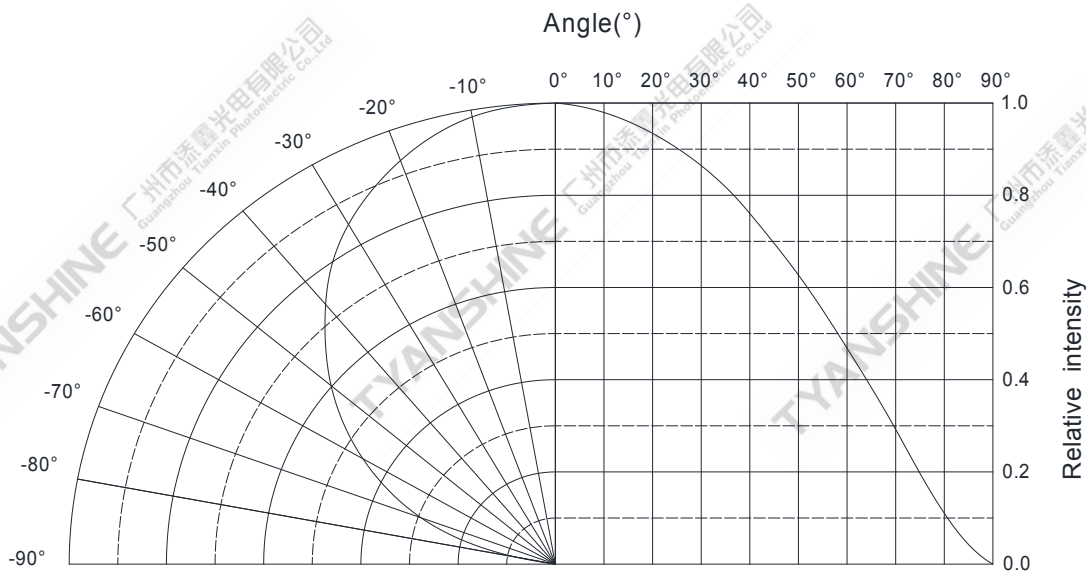
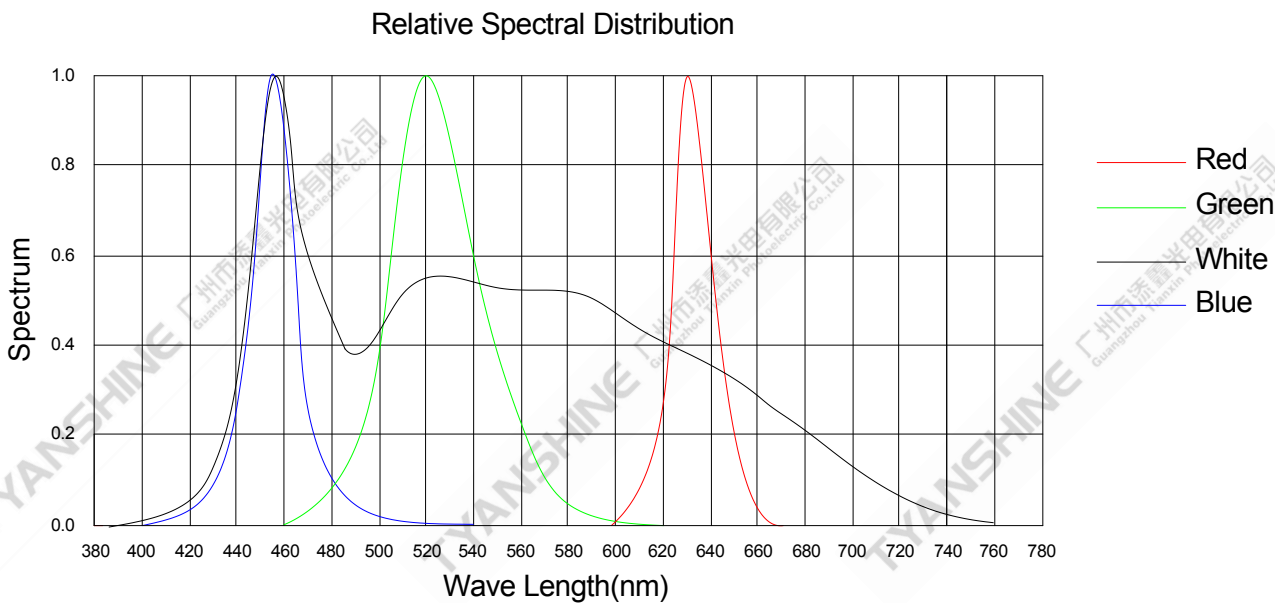
1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity
3. The dominant wavelength (λ_d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
4. Flux is measured with an accuracy of $\pm 15\%$.
5. Forward voltage is measured with an accuracy of $\pm 3\%$.
6. Ra measurement tolerance: ± 2

Typical Electrical / Optical Characteristics Curves

(25℃ Ambient Temperature Unless Otherwise Noted)





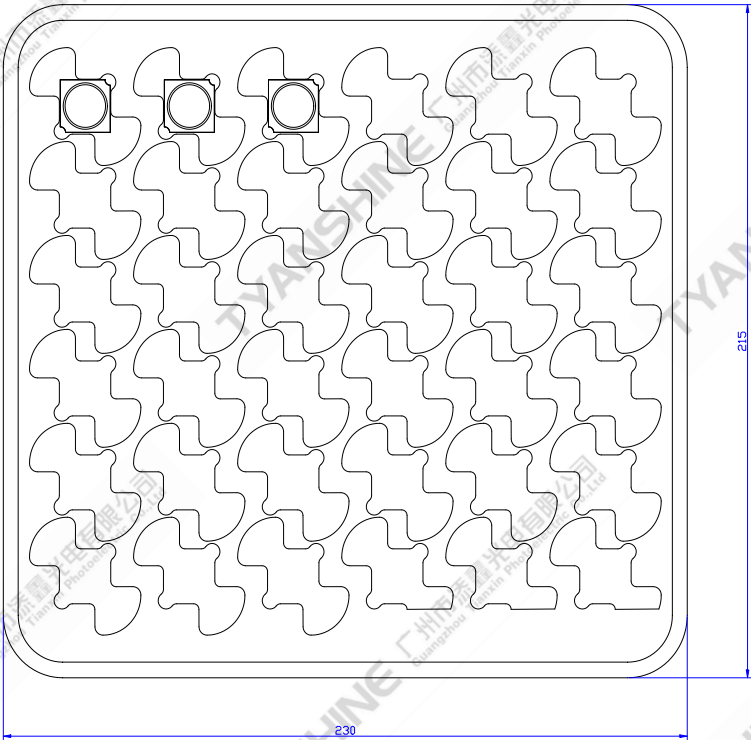


Notes:

1. 2θ 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: 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.