TX-1515RGBW40C11V07-20H90

PRODUCT SPECIFICATION

Features:

◆Excellent transiting heat from LED chip operating under R:400mA，G/B:450mA；W:600mA.

◆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:

◆Red:AlGaInP

◆Green:GaInN

◆Blue:GaN

◆Warm White:GaN

Emitting Color:

◆Red

◆Green

◆Blue

◆Warm White

Applications:

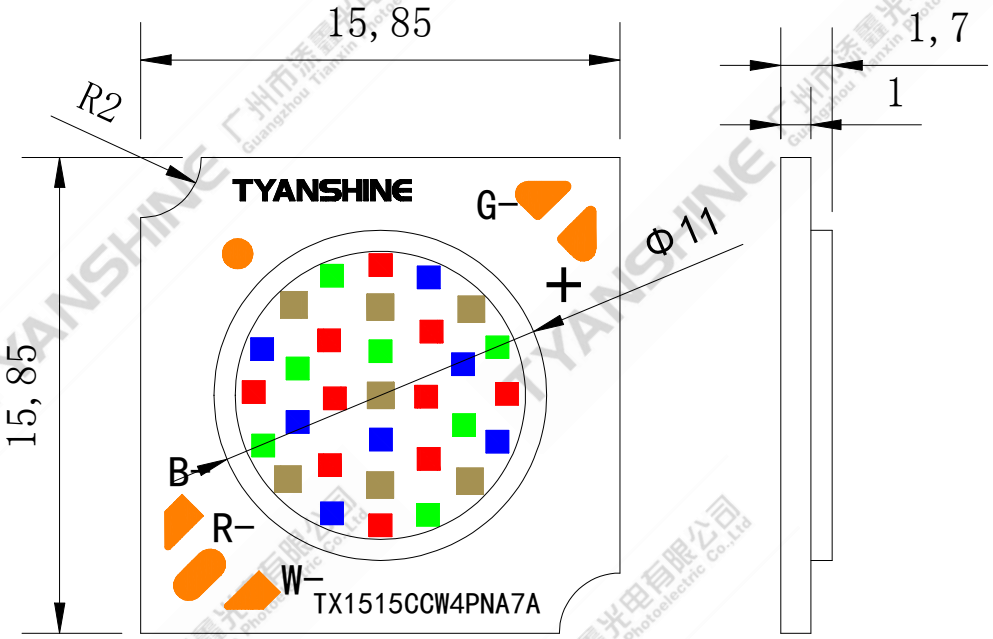
◆Indoor lighting

◆Outdoor lighting

◆Industrial lighting

◆General Lighting

Package Dimensions:



R-Red;G-Green;W-White;B-Blue

Notes:

1.All dimensions are in millimeters .

2.Tolerances unless otherwise mentioned are ±0.25mm .

Absolute Maximum Ratings

Parameter	Symbol		MAX.	Unit
LED Junction Temperature	Tj		115	℃
Power Dissipation	P_D	R	9	W
		G	10	
		B	10	
		W	13	
		R+B+G+W	40	
Continuous Forward Current	IF	R	400	mA
		G	450	
		B	450	
		W	600	
Reverse Voltage	V_R		—	V
ElectrostaticDischarge Threshoid (ESD)	ESD		2000	V
Operating Temperature Range	T_{opr}		-30 to +80	℃
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.

Electrical Optical Characteristics(Tc=25°C,R/G/B/W:IF=400mA)

Parameter	Symbol	Emitting Color	Values			Units
			Min.	Typ.	Max.	
Luminous Flux	φ_V	R	420	490	—	lm
		G	500	600	—	
		B	100	120	—	
		W	500	600	—	
Viewing Angle at 50％IV	$2\theta_{1/2}$	R	—	115	—	Deg
		G	—	115	—	
		B	—	115	—	
		W	—	115	—	
Peak Emission Wavelength	λp	R	625	630	635	nm
		G	512	517	522	
		B	445	450	455	
Dominant Wavelength	λd	R	619	622	625	nm
		G	518	523	528	
		B	450	455	460	
Spectral Line Half-Width	△λ	R	12	17	22	nm
		G	25	30	35	
		B	15	20	25	
Forward Voltage	V_f	R	19	21	23	V
		G	19	21	23	
		B	19	21	23	
		W	19	21	23	
Correlated Colour Temperature	CCT	W	3900	—	4200	K
			6000	—	6500	
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 (λd) 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 ±15%.

5.Forward voltage is measured with an accuracy of ±3%.