

TX-4566RGBLAC200FC120-NUVENG-01

PRODUCT SPECIFICATION

Features:

- ◆Excellent transiting heat from LED chip operating under 1.3A.
- ◆High luminous output.
- ◆No UV.
- ◆Encapsulated materials are environmentally certified and meet environmental requirements.

Chip Material:

- ◆Red: AlInGaP
- ◆Green: GaInN
- ◆Blue: GaN
- ◆Lemon light: GaN
- ◆PC Amber: GaN
- ◆Cyan: GaN

Emitting Color:

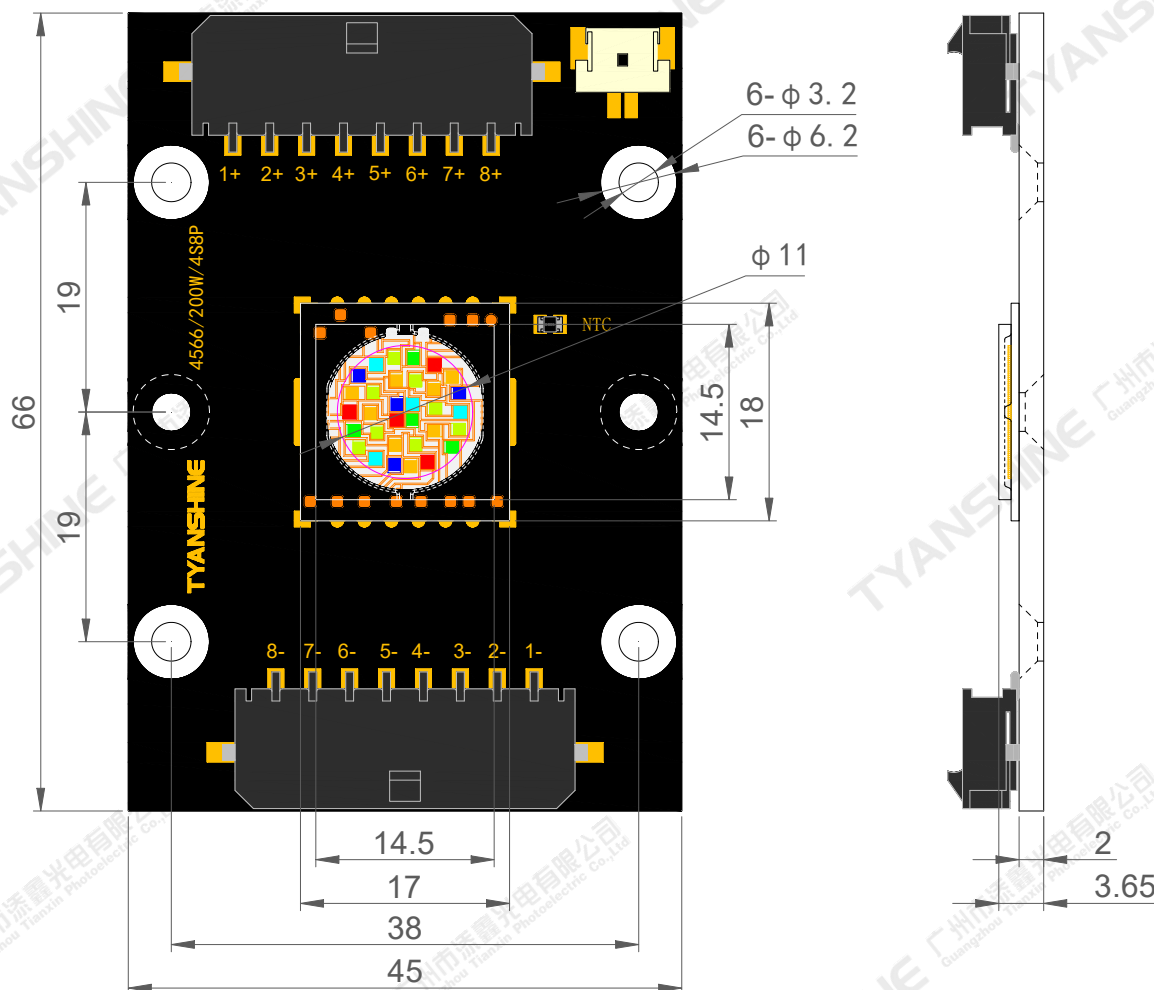
- ◆Red (R)
- ◆Green (G)
- ◆Blue (B)
- ◆Lemon light (L)
- ◆PC Amber (A)
- ◆Cyan (C)

Applications:

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

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Package Dimensions:



Red: (1+)-(R+) / (1-)-(R-);
Green: (3+)-(G+) / (3-)-(G-);
Lemon light: (5+)-(L1+) / (5-)-(L1-);
Blue: (7+)-(B+) / (7-)-(B-);

Cyan: (2+)-(C+) / (2-)-(C-);
PC Amber: (4+)-(A1+) / (4-)-(A1-);
PC Amber: (6+)-(A2+) / (6-)-(A2-);
Lemon light: (8+)-(L2+) / (8-)-(L2-);

Notes:

- 1.All dimensions are in millimeters .
- 2.Tolerances unless otherwise mentioned are $\pm 0.2\text{mm}$.

Absolute Maximum Ratings (Tc=25°C)

Parameter	Symbol	Ratings	Unit
Forward Current	IF	R	2.0
		G	2.5
		B	2.5
		L1	2.0
		L2	2.0
		A1	2.0
		A2	2.0
		C	2.0
Reverse Voltage	V _R	Not designed for reverse operation	V
Power Dissipation	P _D	R	24
		G	35
		B	35
		L1	28
		L2	28
		A1	28
		A2	28
		C	30
Junction Temperature	T _j	R	115
		G	150
		B	150
		L1	150
		L2	150
		A1	150
		A2	150
		C	150
Electrostatic Discharge Threshold (ESD)	ESD	2000	V
Storage Temperature	T _{stg}	-20~+70	°C
Operation Temperature	T _{opr}	-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.

Electrical Optical Characteristics IF=1.3A ,Tc=25℃

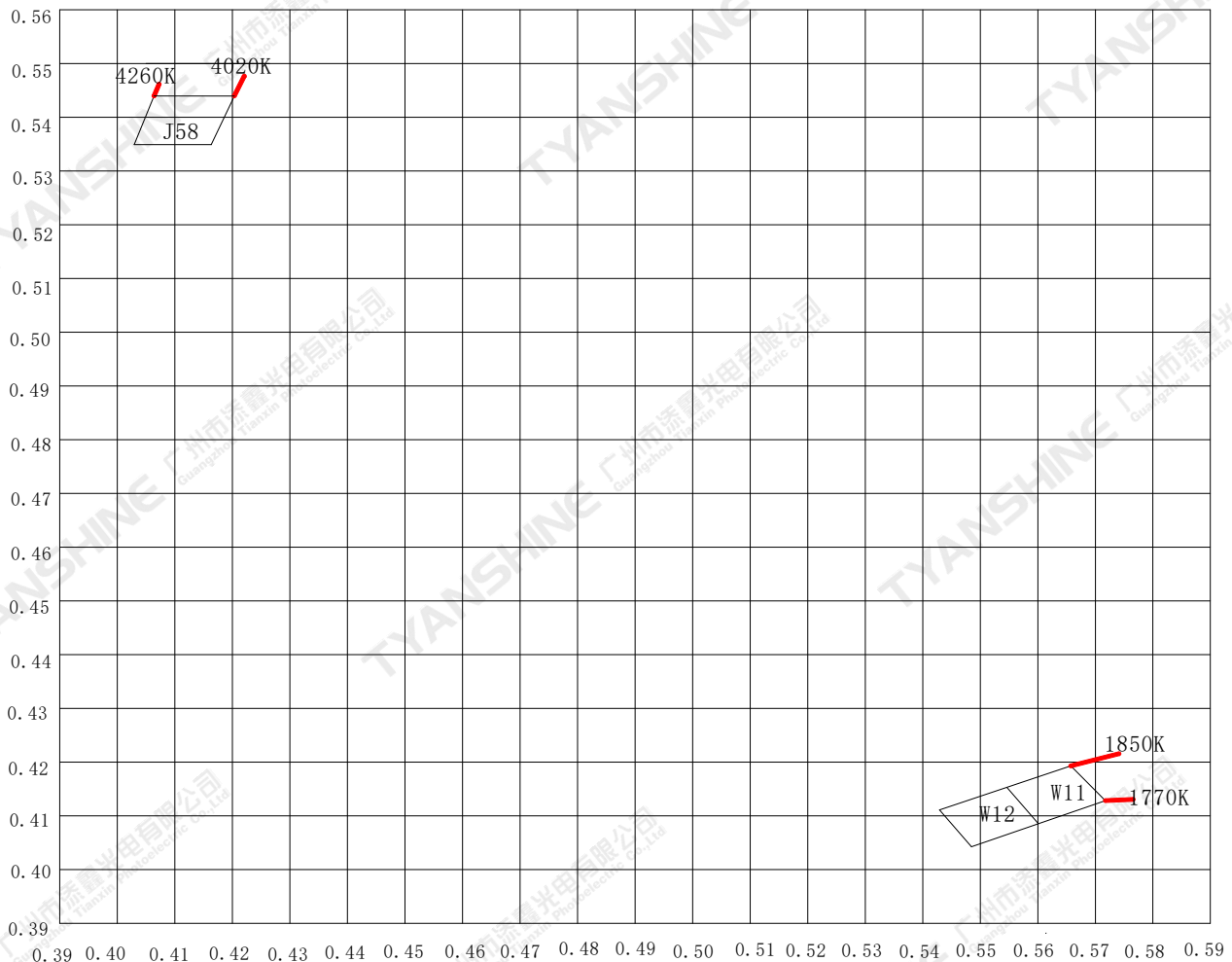
Parameter	Symbol	Emitting Color	Min.	Typ.	Max.	Units
Luminous Flux	Φ_v	R	540	600	660	lm
		G	1050	1200	1350	
		B	200	250	300	
		L1	1350	1500	1650	
		L2	1350	1500	1650	
		A1	600	750	900	
		A2	600	750	900	
		C	470	570	670	
Dominant Wavelength	λ_d	R	617	622	627	nm
		G	523	528	533	
		B	445	450	455	
		C	482	487	492	
Peak-emission Wavelength	λ_p	R	625	630	635	nm
		G	515	520	525	
		B	441	446	451	
		C	480	485	490	
Correlated Colour Temperature	CCT	L	4020	—	4260	K
		A	1770	—	1850	
Forward Voltage	V_f	R	8	10	12	V
		G	10	12	14	
		B	10	12	14	
		L1	10	12	14	
		L2	10	12	14	
		A1	10	12	14	
		A2	10	12	14	
		C	11	13	15	
Viewing Angle at 50 % IV	$2\theta_{1/2}$	—	—	120	—	Deg
Reverse Current	I_R	—	—	—	—	μA
Thermal Resistance Junction to Case	$R\theta_{J-C}$	R	—	0.41	—	K/W
		G	—	0.9	—	

		B	—	0.9	—	
		L1	—	0.9	—	
		L2	—	0.9	—	
		A1	—	0.9	—	
		A2	—	0.9	—	
		C	—	0.9	—	
		Total thermal resistance	—	0.12	—	
Temperature Coefficient of Voltage	$V\Delta F/T$	R	—	-2.16	—	mV/°C
		G	—	-8.5	—	
		B	—	-4.3	—	
		L1	—	-11.16	—	
		L2	—	-11.16	—	
		A1	—	-11.16	—	
		A2	—	-11.16	—	
		C	—	-9.16	—	
Thermistor(NTC)	Rt25	—	—	10	—	KΩ

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:±15%.
- 4.Forward voltage measurement tolerance:±0.15V.

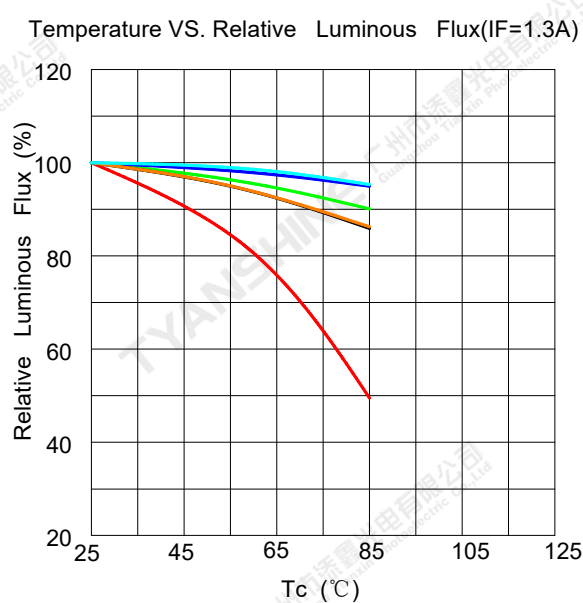
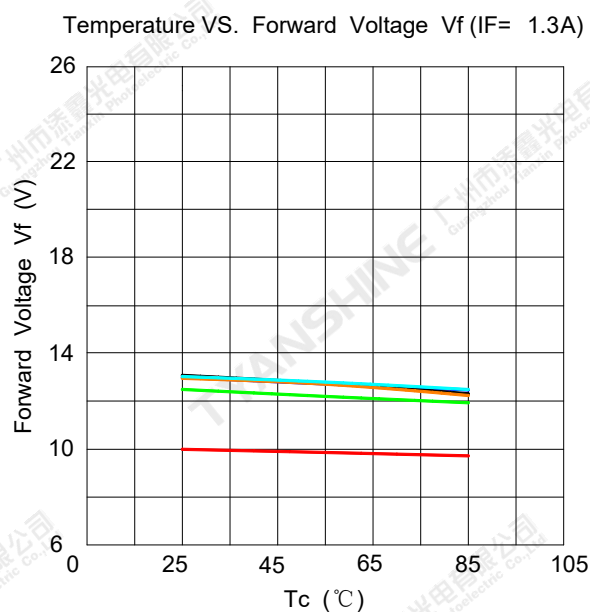
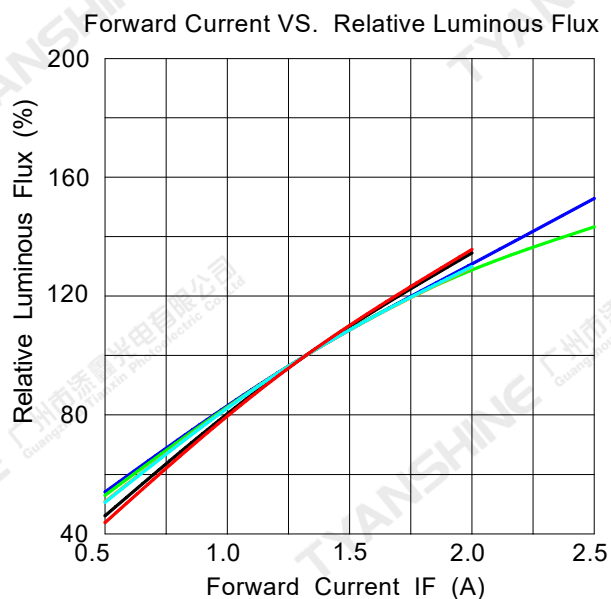
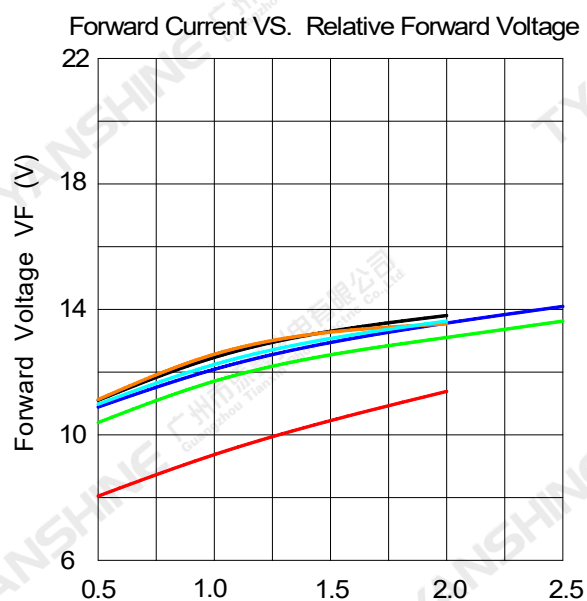
White light Color coordinate filing (IF=1.3A, Tc=25℃)



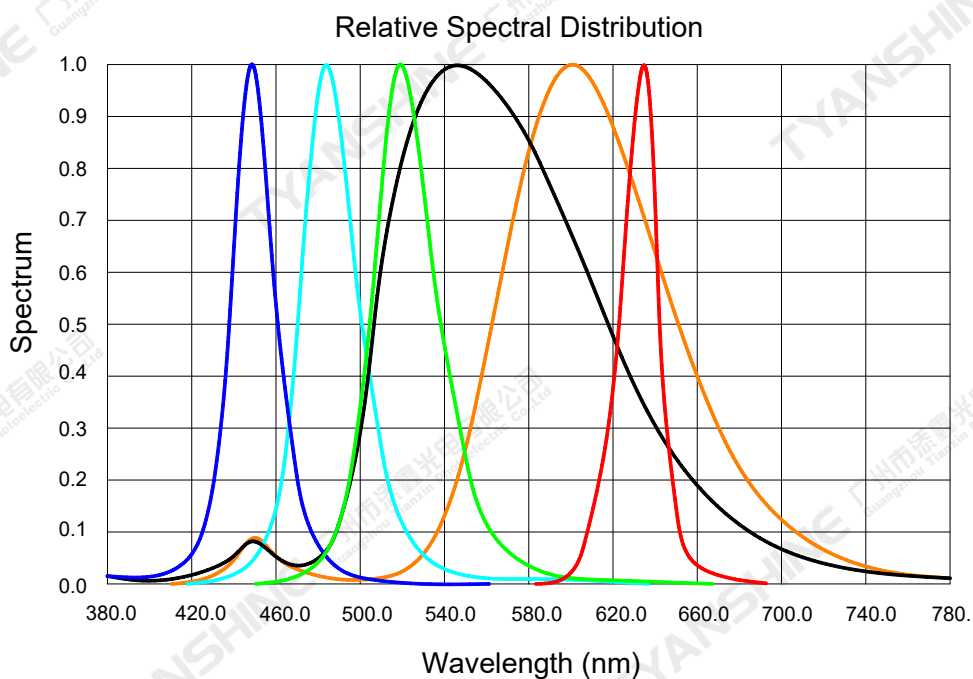
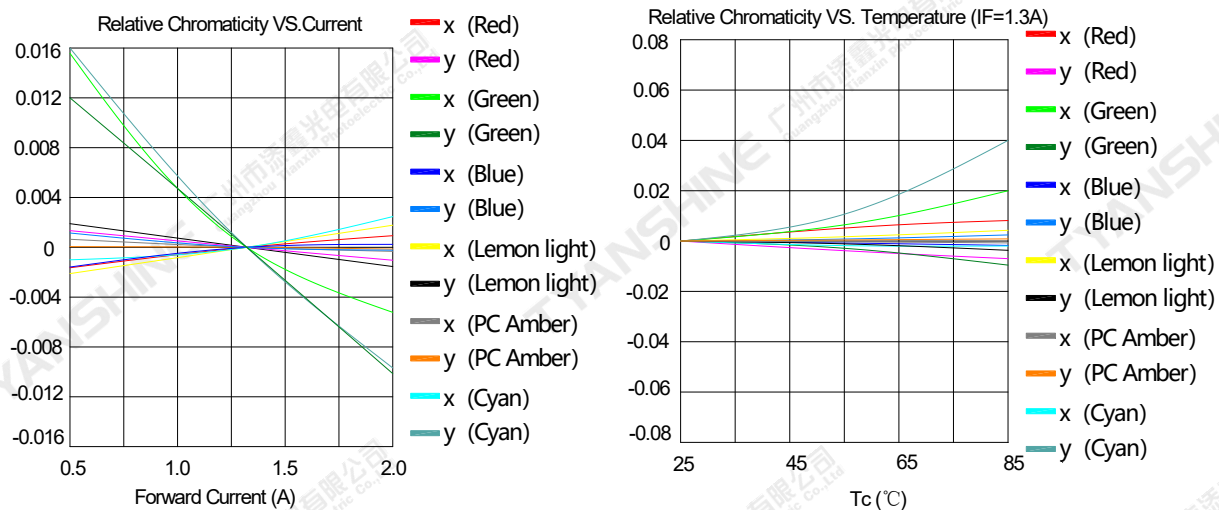
Grade	TC	P1		P2		P3		P4	
		X1	Y1	X2	Y2	X3	Y3	X4	Y4
J58	4020-4260K	0.4164	0.5350	0.4204	0.5441	0.4064	0.5441	0.4030	0.5350
W11	1770-1850K	0.5601	0.4087	0.5718	0.4130	0.5658	0.4194	0.5546	0.4154
W12	1770-1850K	0.5485	0.4044	0.5601	0.4087	0.5546	0.4154	0.5429	0.4112

Typical Electrical/Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)



Notes: Red; Green; Blue; Lemon light (L1/L2); PC Amber (A1/A2); Cyan



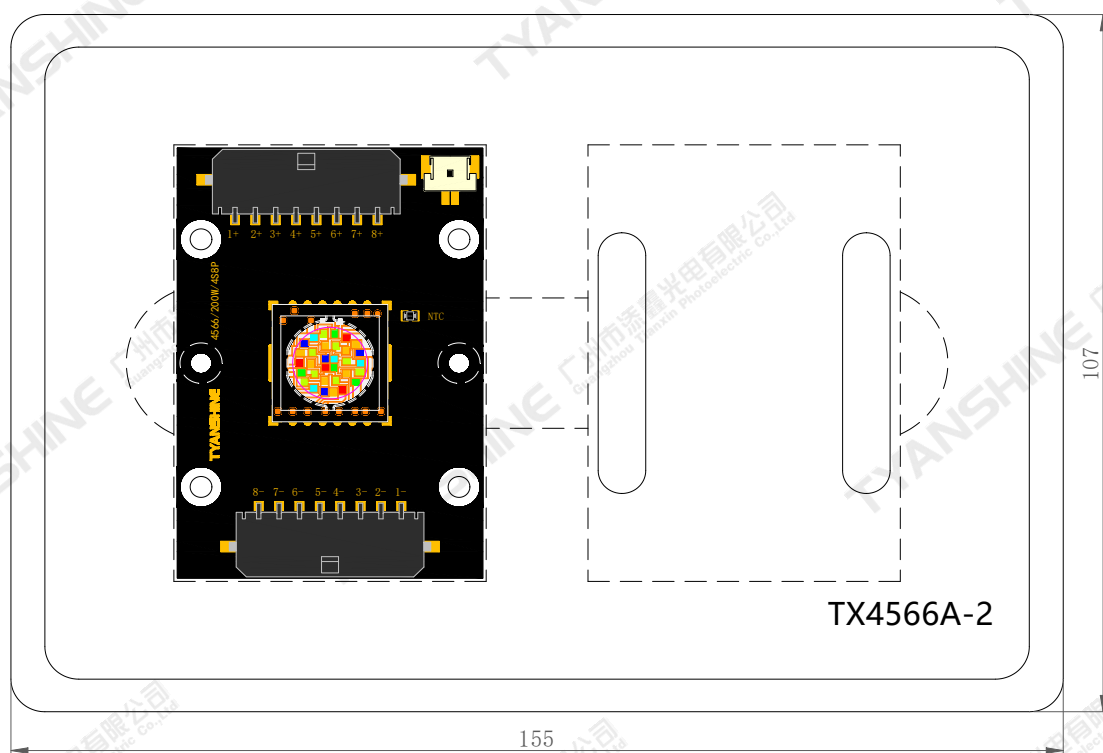
Notes: Red; Green; Blue; Lemon light (L1/L2); PC Amber (A1/A2); Cyan

Notes:

- 2θ 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 ± 5°.

Dimensions For Cannulation And Packaging

Quantity:2 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.

