

SPECIFICATION

(产品规格书)

COB 2822 RGBW LED

(80W)

Customer	_____
Part NO.	282822
Spec. NO.	JX-SPEC-RGBW-080
Version NO.	B0
Description	282822 RGBW COB-LED
Created Date	2023.6.30

CUSTOMER APPROVED (客户确认)		

R&D DEPARTMENT (开发部)		
APPROVED (核准)	CHECKED (审核)	PREPARED (制定)

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■ Absolute Maximum Rating(TA=25°C) (极限参数)

Parameter(参数)	Symbol(符号)	Ratings(数值)	Units(单位)
Power Dissipation (功率)	P _D	R	15.0
		G	25.2
		B	26.9
		W	26.0
Continuous Forward Current (正向输入电流)	I _F	R	720
		G	810
		B	810
		W	900
LED Junction Temperature (结点温度)	T _J	R	115
		G	110
		B	110
		W	150
Operating Temperature Range(工作温度)	T _{OPR}	-30°C To +85°C	
Storage Condition(储存)	TA & RH	包装未破 25±5°C & 30-65% 一年	
Manual Soldering Temperature (手工焊接温度)	T _{SOL}	350°C± 10°C For 3~5 Seconds	
ESD Sensitivity(抗静电能力)	ESD	2000V HBM	

Notes:

*1, 1/10 Duty Cycle 0.1ms Pulse Width.(脉冲宽度 0.1ms, 占空比 1/10)

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■ Electrical/Optical Characteristics (Ta=25°C) (光电参数)

Parameter (参数)	Symbol (符号)	Conditions (测试条件)	Color (颜色)	Min. (最小值)	Typ. (典型值)	Max. (最大值)	Unit (单位)
Luminous Flux (光通量)	Φ	700mA	R	812	923	---	lm
		700mA	G	1107	1258	---	
		700mA	B	328	373	---	
		700mA	W	1383	1572	---	
Forward Voltage (正向压降)	V_f	700mA	R	19.2	21.2	23.2	V
		700mA	G	29.6	31.6	33.6	
		700mA	B	29.4	31.4	33.4	
		700mA	W	29.1	31.1	33.1	
Dominant Wavelength (主波长)	λ_d	700mA	R	618	---	628	nm
		700mA	G	520	---	530	
		700mA	B	460	---	465	
Correlated Colour Temperature (色温)	CCT	700mA	W	6000K	6500	7000K	K
Color Rendering Index (显色指数)	Ra	700mA	W	80	---	---	---
Viewing Angle (发光角度)	$2\theta_{1/2}$	700mA	C	---	120	---	Deg

Notes:

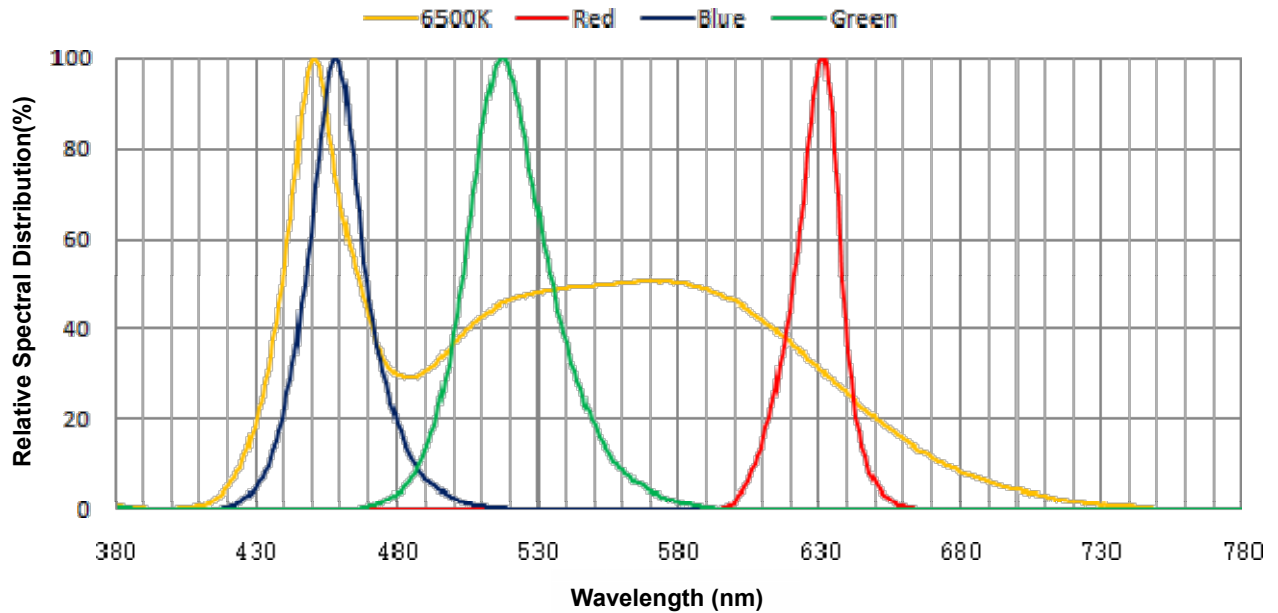
- *1, Tolerance Θ : 10%. (Θ 公差为 10%)
- *2, Flux measurements: $\pm 10\%$. (光通量测试公差为 $\pm 10\%$)
- *3, Current measurements: $\pm 10\%$. (电流测试公差为 $\pm 10\%$)

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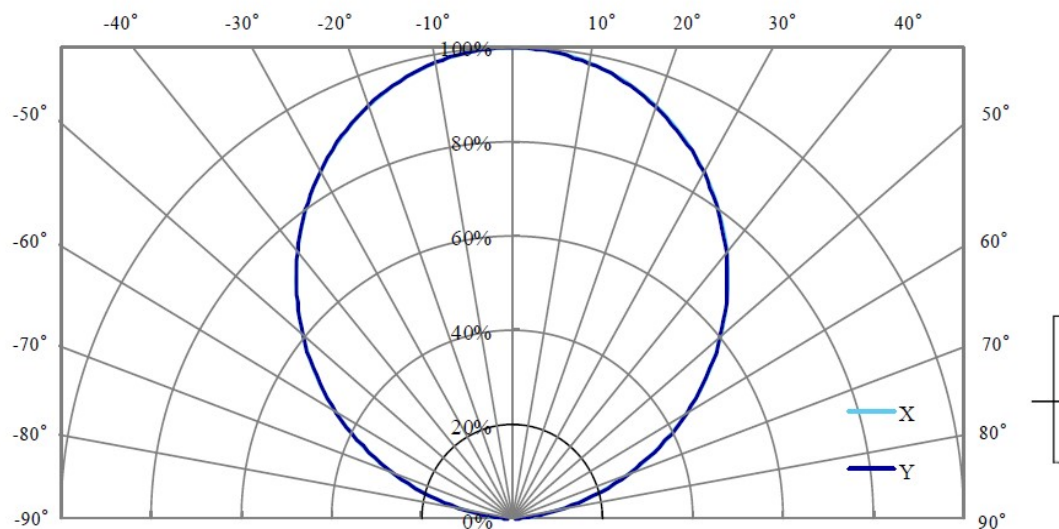
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■ Typical Color Spectrum (Ta=25°C)



■ Typical Spatial Radiation Pattern

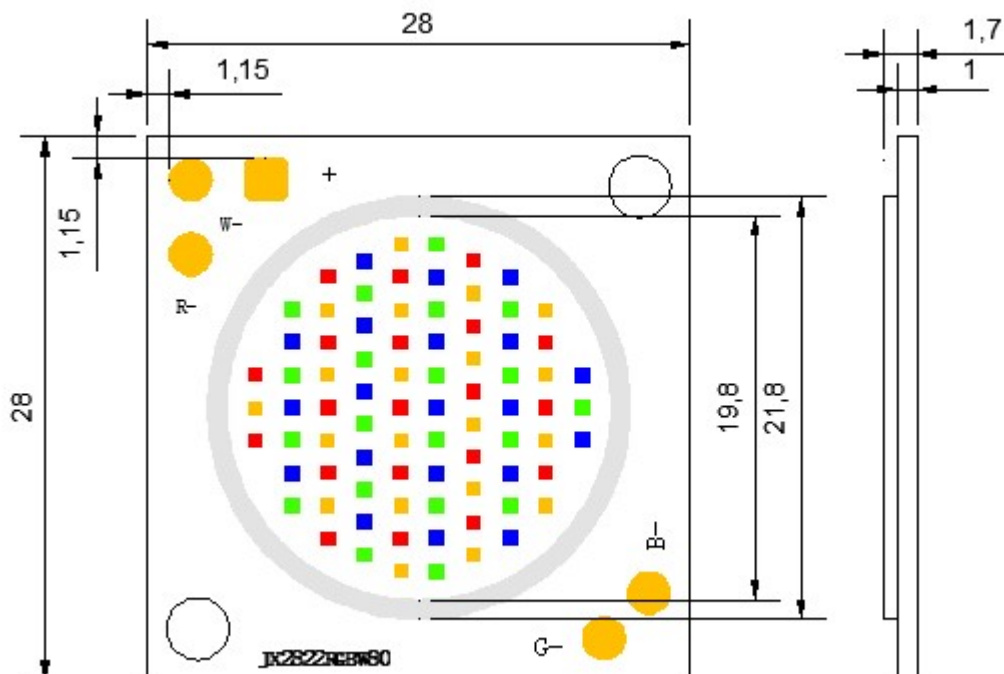
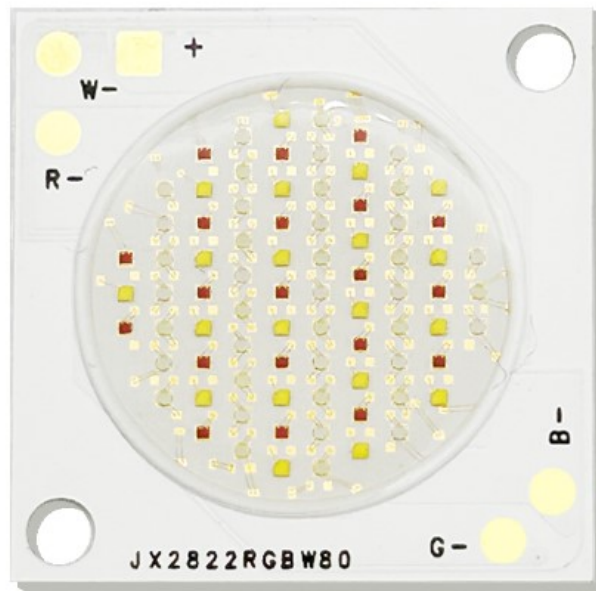


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■ Package Dimensions Picture (封装尺寸图)



Notes:

地址：广州花都新华工业区毕村北路 12 号

WEB: www.jxgdgz.com

TEL: 020-36133380

Add: No.12 the North Road of Bi Village Xinhua Industrial Zone Huadu District Guangzhou City Guangdong Province . China

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*1, All dimensions are in millimeters. (所有尺寸以毫米为单位)

*2, Tolerance is ± 0.25 unless otherwise noted (未标注公差为: ± 0.25)

■ Use the matters needing attention(使用注意事项)

1、储存(storage)：

为避免受潮的影响，我司建议产品在未开包装前储存条件为 10-30°C，相对湿度小于 60%；已开包装的 LED 光源请在 24 小时 内使用安装完毕，如未用完之产品，请进行除湿并抽真空后密封保存。开封超过一周或湿度卡发生变化时，请务必进行除湿，除湿条件：60°C \pm 5°C，12 小时；

产品密封保存有效使用期为一年。

To avoid moisture, we recommend storage conditions for the unopened LED +10 ~ +30 °C, relative humidity <60%; LED should be used within 24Hrs of opening the package, Please make sure to dehumidify and vacuum packing on / unused LED.Be sure to dehumidify the card if it has been open for more than one week or the humidity card changes. Dehumidifying condition: +60 ° C \pm 5 ° C, 12Hrs.

Effective age for the sealed led is one year.

2、组装注意事项(the assembly notes)：

焊接条件：此产品不推荐使用回流焊接的作业方式，手工焊接烙铁温度设定 350°C，焊接时间 不可超过 5 秒，第一焊点焊接后请确保基板表面温度恢复到环境温度，方可进行第二次的焊接。焊接时请注意不可有外力作用于胶体表面及外圈的围堰胶上（如压力，摩擦或锋利金属钉 等），以免造成金线变形或断线等异常；如果超出此使用条件，晶鑫将不能保证产品的稳定性，如需使用超出的操作条件，请务必进行风险评估。

Soldering conditions: Reflow soldering is not recommended for this LED. If hand soldering, set soldering iron temperature at 350° C and soldering time not More than 5 seconds, after the first soldering, make sure the substrate surface temperature returns to ambient temperature before a second soldering.

Please make sure when soldering, there is no external force on the soldering surface and silicon

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batardeau (such as pressure, friction or sharp metal nails, etc.), to avoid gold wire deformation or damage and other abnormalities. If beyond recommended conditions, we cannot guarantee the LED stability, please evaluate the risk assessment first.

3、防静电措施(anti-Static Measures)：

请采取足够的措施来防止静电产生，比如带静电环或防静电手指套等；每个制造工序关于产品（工厂、设备、机器、载波机和运输单位）应当连接地面，避免产品电气带电。

Please take adequate measures to prevent electrostatic generation, such as wearing electrostatic ring or anti-static fingerstall etc; any relative products like plant equipment, machinery, carrier and transportation units shall be connected to discharging unit/ ground. After assembly, please make sure to discharge Static Electricity with proper ESD equipment.

4、温度控制(temperature Control)：

保证散热前提条件为：TS点（负极焊盘）为65摄氏度以下，在此温度以下，散热符合产品寿命要求；为确保在组装时降低接触热阻，请注意在组装过程中，散热片采用良好品质的导热膏涂布均匀且分布面积合理，不可出现太少或高低不平等现象。

Recommended temperature conditions for enhanced product life: TS (Cathode Point) is <65°C . During assembly, please ensure that a good quality thermal paste is applied and distributed evenly over the surface. While using thermal pad (Heat Sink), make sure LED is firmly tightened and there is no gap between surfaces.

5、驱动控制(drive control)：

本产品需使用恒流源进行驱动，如需使用恒压源或其他使用条件，请进行使用效果风险评估。

Drive this product at constant current, .Before using a constant voltage source or altered specifications, other than recommended, please consider risk factors.

6、其他(other)：

本产品不可在以下条件下使用，如果产品在以下条件下使用，评估其使用效果和风险是有必要的：

- 6.1 直接或间接的打湿或受潮；
- 6.2 被海水损害或侵蚀；
- 6.3 被暴露于腐蚀性气体(如 Cl₂,H₂S、NH₃、SO_x、NO_x 等) ；

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6.4 被暴露于粉尘、液体或油；

Product is not suitable to use in following conditions;

- 6.1 Direct or indirect wet / damp conditions;
- 6.2 in contact with sea water and erosive materials;
- 6.3 Exposed to corrosive gases (e.g., Cl₂, H₂S, NH₃, SO_x, NO_x, etc.);
- 6.4 Exposed to dust, liquids or oils;