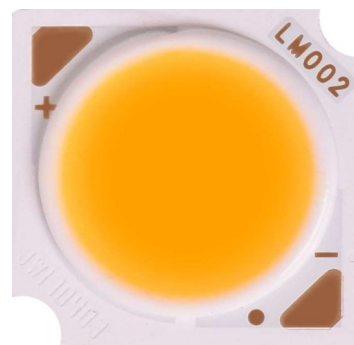
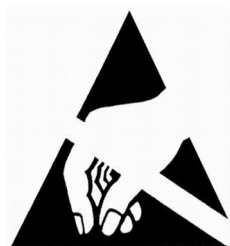


1.Part code

HL-LM002H384W-9B4C12(Ra2)



- ① Product line code 产品系列代码
- ② Product code base plate 产品基板代码
- ③ Chip code 芯片代码
- ④ Emitting light colors 发光颜色
- ⑤ Recommend the minimum Power
建议使用的最小功率
- ⑥ The number of parallel Circuit 并联电路数
- ⑦ The number of series Circuit 串联电路数
- ⑧ CRI 显色指数 Ra2: $Ra \geq 80$



ATTENTION 注意
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

请勿裸手接触器件

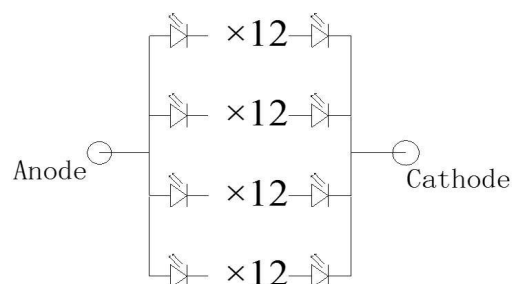
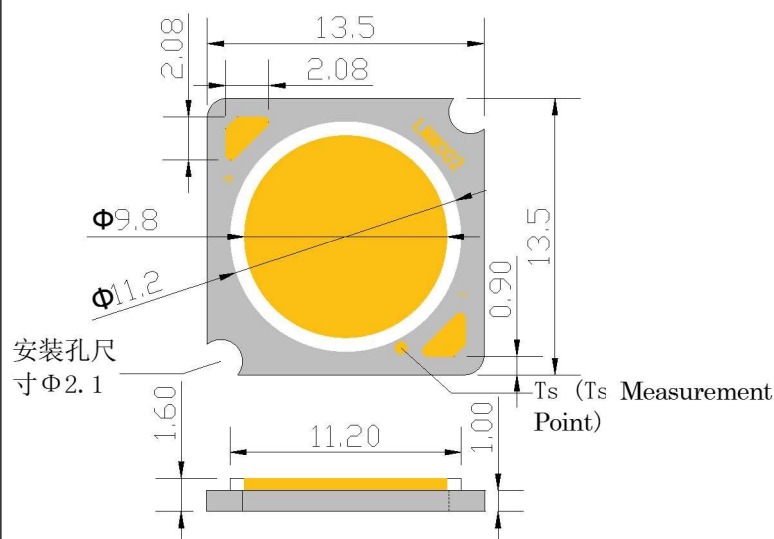
2.Features 特点

- Dimension 13.5mm×13.5mm×1.6mm : 尺寸13.5mm×13.5mm×1.6mm
- Chip Base on Aluminum Board : 镜面铝基板封装
- RoHS compliant (ROHS标准)
- 3-step MacAdam Ellipse (3阶出货)
- sulphation corrosion resistance 抗硫化
- Light-Emitting Diode 发光二极管

3.Applications 应用

- Down light 筒灯
- Spot light 射灯

4.Package Dimensions封装尺寸



Tolerance unless otherwise specified: $\pm 0.3\text{mm}$.
尺寸公差为 ± 0.3 毫米除非另有说明

5.Performance 性能

(1) Absolute Maximum Ratings 绝对最大额定值

Parameter参数	Symbol符号	Rating Value值	Units单位
Power Dissipation (功耗)	Pd	22	W
Forward Current (正向电流)	IF	600	mA
Junction Temperature结温	Tj	120	°C
TS Temperature (TS温度) / 沉降产品	Ts	85 ^{*1}	°C
Storage Temperature Range储藏温度	Top	-40~85	°C
Operating Temperature Range工作温度	Top	-40~85	°C
Lead Soldering Temperature*引线焊接温度	T _{SOL}	Max. 350°C for 5sec Max.	

Notes for Table:

1.The temperature of Aluminum PCB do not exceed 85°C. If the input power reach 80% max Pi, the temperature of Aluminum PCB should be control below 75°C

基板负极引线温度不能超过85°C.如果输入功率达到最大输入功率的80%以上,基板负极引线温度应控制在75°C以内.

2.When hand soldering, keep the temperature of iron below less 350°C less than 5seconds

当手工焊接时,烙铁的温度必须小于350°C,时间不能超过5秒

(2) Electro-Optical Characteristics 光电特性

Parameter参数	Symbol符号	Condition 条件	Min.	Typ.	Max.	LM/W (typ)	Unit 单位
Forward Voltage 正向电压	VF	IF=350mA	34	36	40	—	V
Luminous Flux 光通量	Φv	TC=1800-2000K	1000	1050	1140	105	Lm
		TC=2200-2400K	1360	1440	1570	114	
		TC=2300-2500K	1310	1390	1520	110	
		TC=2500K	1370	1460	1580	116	
		TC=2700K	1410	1555	1710	122	
		TC=3000K	1410	1555	1710	120	
		TC=3500K	1410	1555	1710	130	
		TC=4000K	1555	1710	1880	127	
		TC=5000K	1555	1710	1880	128	
		TC=5700K	1550	1650	1800	130	
		TC=6000±300K	1500	1600	1730	127	
		TC=6500K	1555	1710	1880	127	
CRI 显色指数	Ra	IF=350mA	80	—	—	—	—
Thermal Resistance 热阻	R (j-s)	IF=350mA	—	1.95	—	—	℃/W

Notes for Table

* 1.Color bins are defined at IF=350mA operation. If use different forward current, it will cause the change of chromaticity and forward voltage.

该产品通过瞬态350mA点亮, 分光分色. 若使用不同电流, 会引起色温及电压的变化

*2.The tolerance of measurement at our tester is VF+/-3%, Φv+/-10% and Ra+/-2.

测试仪测量的公差在电压±3%, 流明±10% 和显指±2。

3.Tolerance of ±0.005 on x,y coordinates.

色坐标的测量误差允许在±0.005

4.Color region stay within MacAdam "3-step" ellipse from the chromaticity center. but does not contain the color temperature 6000±300K. The chromaticity center refers to ANSI C78.377-2008.

色域可控制在色温中心坐标的3阶麦克亚当椭圆之内, 但不包括色温6000±300K, 色温分bin参考ANSI C78.377-2008。

5. The symbol of "—" in the sheet represents that this parameter is uncontrolled.

表格中/代表此参数不管控。

6.With "□" for the product the main push color segment.

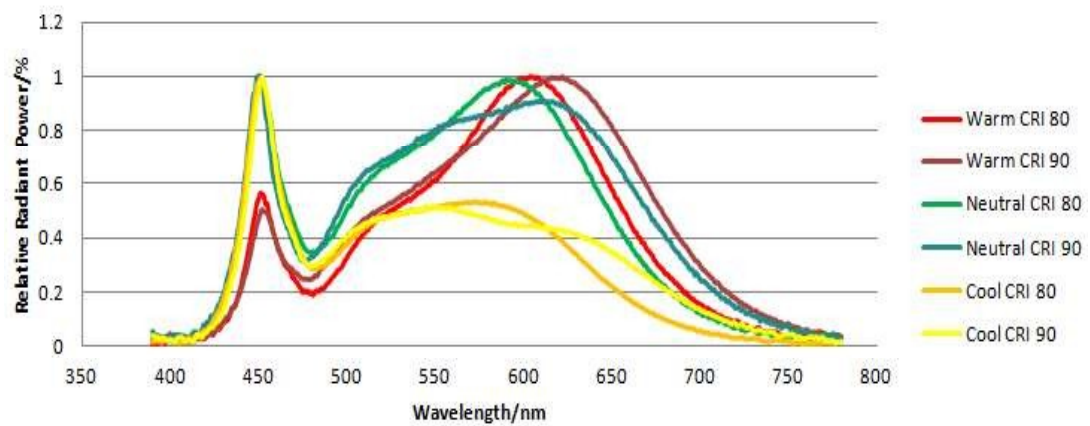
带"□"为产品主推色温段。



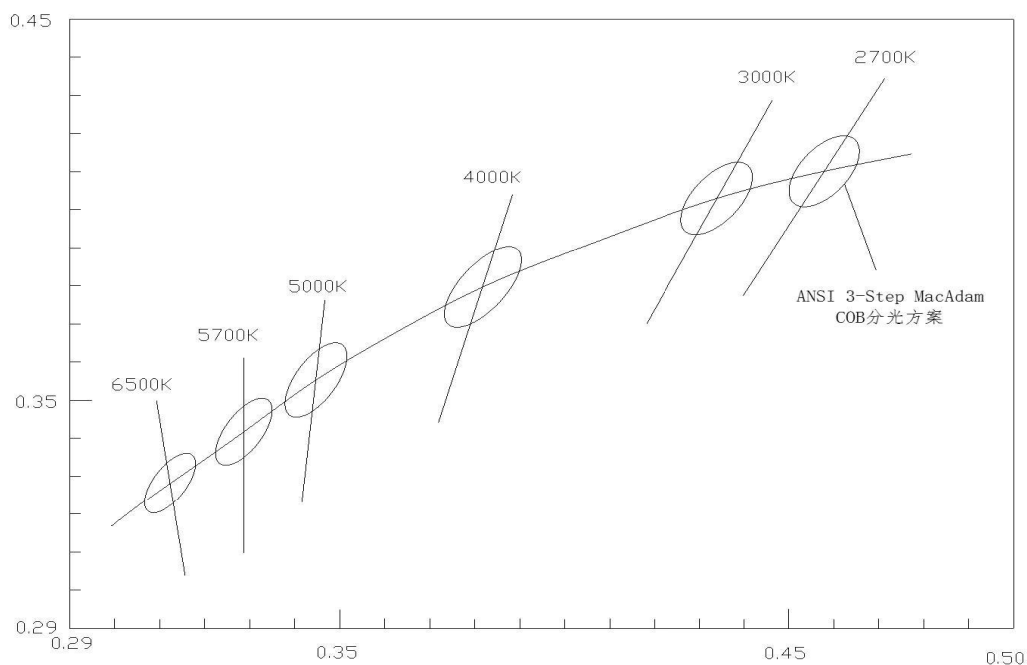
Under Development	
Mass production	●

6.Characteristics特性

Spectrum



7. Bin Range of Chromaticity Coordinate Bin区分类及色坐标范围



CCT 色温	CIE_x	CIE_y	A	B	Θ
6500K	0.3123	0.3282	0.00669	0.00285	58.57
6000K	0.3214	0.3353	0.00708	0.00302	59.21
5700K	0.3287	0.3417	0.007458	0.003198	59.09
5000K	0.3447	0.3553	0.00822	0.00354	59.62
4500K	0.3611	0.3658	0.00881	0.00378	54.35
4000K	0.3818	0.3797	0.00939	0.00402	53.72
3500K	0.4073	0.3917	0.00927	0.00414	54.00
3000K	0.4338	0.4030	0.00834	0.00408	53.22
2700K	0.4578	0.4101	0.0081	0.0042	53.7

Color region stay within MacAdam "3-step" ellipse from the chromaticity center, but does not contain the color temperature $6000 \pm 300K$. The chromaticity center refers to ANSI C78.377-2008.

色域可控制在色温中心坐标的3阶麦克亚当椭圆之内，但不包括色温 $6000 \pm 300K$ ，色温分bin参考ANSI C78.377-2008。