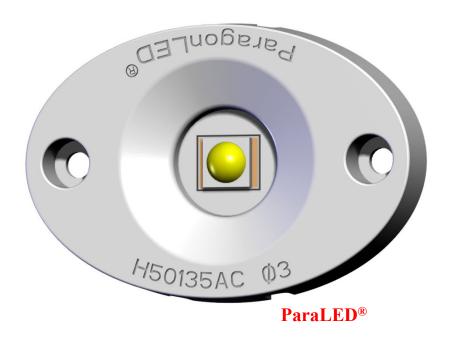
ParaLED G1C000030 Series Datasheet



Introduction:

Compared with DC LED modules, ParagonLED AC SMD(Driver on Board)ParaLED[®] Series module does not need an external driver so that it is able to enhance lifespan and shows compact dimension.

Description:

- --120/230VAC
- --3/6/8W
- --60-80 LM/W
- --3000K CCT
- --90 CRI
- --PF>0.85
- -- Customized available

Feature and Benefits:

- --Driver on Board
- --Industry grade solid state components
- --0.5KV Surge protection built-in
- --Lifespan>50K hrs TC<105°C
- --Lowest thermal resistance



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General Information

Ordering Code Format

$$\frac{G1}{1} \stackrel{C}{=} \frac{000030}{3} - \underbrace{\frac{xxxV}{4}}_{\stackrel{120}{=} \frac{3}{8}} \stackrel{5}{=} \frac{7}{30} - \underbrace{\frac{zz}{4}}_{\stackrel{120}{=} \frac{3}{230}} \stackrel{5}{=} \frac{3}{8}$$

- 1. Non Dimmable
- 2 . Product Series type
- 3 . Outline Dimension(mm)
- 4 . Voltage(VAC)
- 5 . Power Dissipation (W)
- 6 . Color Temperature(CCT)

Characteristics

Parameter	Symbol		Value	Unit
Forward Voltage	VF		120/230	VAC
Forward Voltage	VF		±10%	VAC
Operation Frequency	Fop		50/60	Hz
Power Dissipation	PD		3/6/8	W
Operating Temperature	Тор	-40 ~ +105		°C
Storage Temperature	Tst	-40 ~ +105		°C
Surges Protection(L/N)	Vs	0.5		KV
Insulation voltage	Viso[RMS]	120V:1240 / 230V:1460		VAC
Power Factor	PF	>0.85		
Color coordination	ANSI C78.	.377:2008 IEC 60081:1997		97

ANSI CCT	step*	Cx	Су
2700K	3	0.458	0.410
3000K	3	0.434	0.403
3500K	3	0.407	0.392
4000K	3	0.382	0.380
4500k	3	0.361	0.366
5000K	3	0.345	0.355
5700k	5	0.329	0.342
6500K	5	0.312	0.328

^{*}Color region stay within MacAdam ellipse from the chromaticity center.

IEC CCT	step*	Cx	Су
2700K	3	0.463	0.420
3000K	3	0.440	0.403
3500K	3	0.409	0.394
4000K	3	0.380	0.380
5000K	3	0.346	0.359
6500K	5	0.313	0.337

^{*} Color region stay within MacAdam ellipse from the chromaticity center.



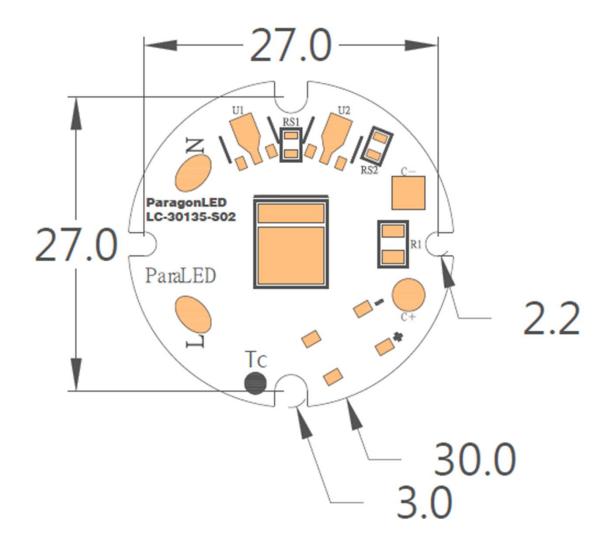
Luminous Flux Characteristic

Product No	Forward Voltage	Watt	lm/W	Lumen	Color rendering	Color Temperature
G1C000030-120V03WDA30	120V	3	70	210	90	3000
G1C000030-120V06WDA30	120V	6	60	360	90	3000
G1C000030-230V03WDA30	230V	3	80	240	90	3000
G1C000030-230V06WDA30	230V	6	70	420	90	3000
G1C000030-230V08WDA30	230V	8	60	480	90	3000



5 V01

Mechanical Dimensions



1. All dimensions are measured in mm.

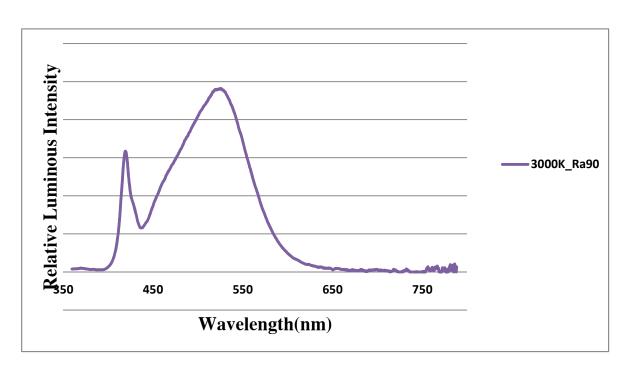
2. Tolerance: ± 0.2mm 3. Thickness:1.0±0.1mm



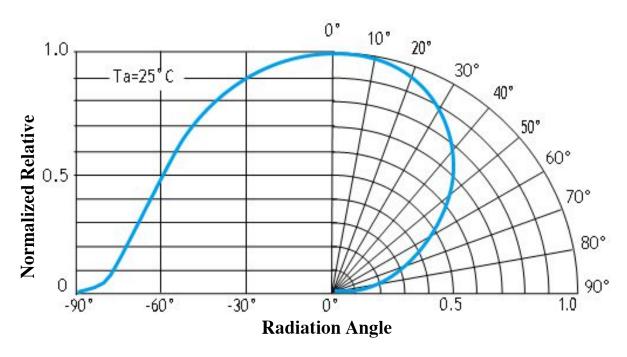


Characteristic curve

Color Spectrum



Beam Pattern

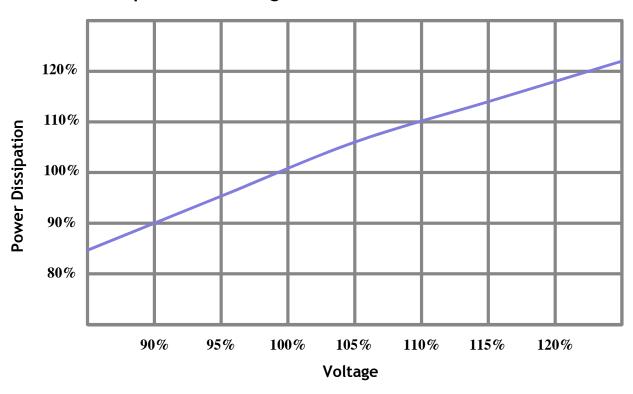




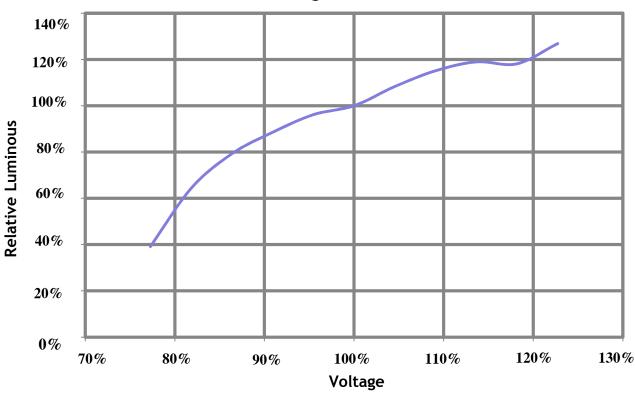


Characteristic curve

Power Dissipation vs. Voltage



Relative Luminous Flux vs. Voltage





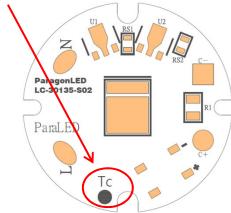


Reliability

No.	Test Item	Test Condition	Remark
1	Temperature Cycle	-40°C~100°C (30 mins / 30 mins)	100 Cycle
2	Low-Temperature Storage	Ta= -40°C	1000 hrs
3	High-Temperature Storage	Ta=105°C	1000 hrs
4	High Temperature High Humidity Life test	Ta=85°C, RH=85%	500 hrs
5	High Temperature Operation Life test	Tc = 55°C / 85°C / 105°C	6000 hrs
6	ON/OFF Test	3 sec ON, 3 sec OFF	2Million times

Ta: Temperature Ambient RH: Relative Humidity

Tc Point



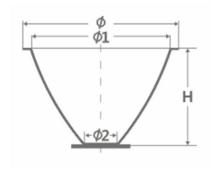


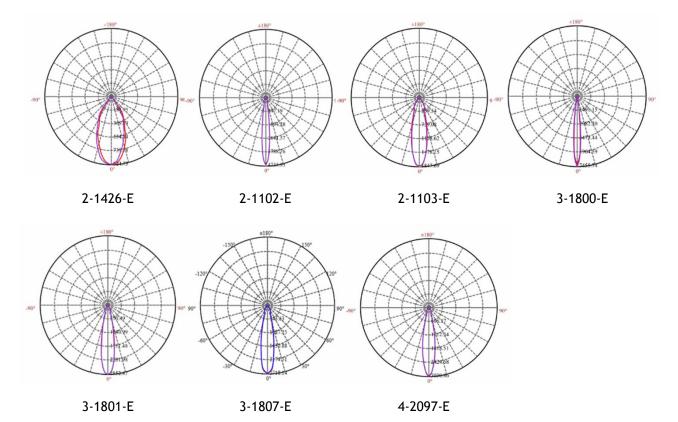
Accessory

Accessories

Reflective cup Dimensions:mm

NO.	Holder	Ø	Ø1	Ø2	Н	Notice
2-1426-Е		75.0	68.4	15.0	43.0	47°
2-1102-Е			69.9	15.2		13°
2-1103-E			69.8			25°
3-1800-E	H42135AC		81.0			11°
3-1801-E		85.0	00.0	150	51.0	21°
3-1807-E			80.0	15.0		22°
4-2097-E		111.0	100.0		65.0	20°





Accessory

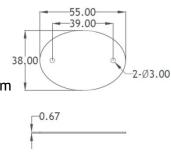
Thermal Pad

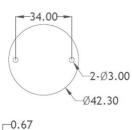
Thermal pad applied for:

Gray: 1.5W/mk Yellow: 3W/mk Blue: 5W/mk

Dimensions (LxWxH): 55x38x0.67mm

Dimensions (ØxH): 42.3x0.67mm



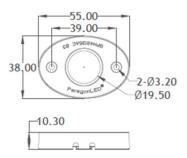


-0.67

Protection ring

Dimensions (LxWxH): 55x38x10.30mm NO.GPH48135AC Ø3 (with glass)

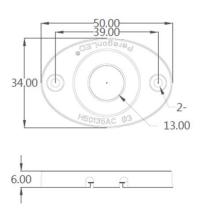




Dimensions (ØxH): 50x34x6.0mm

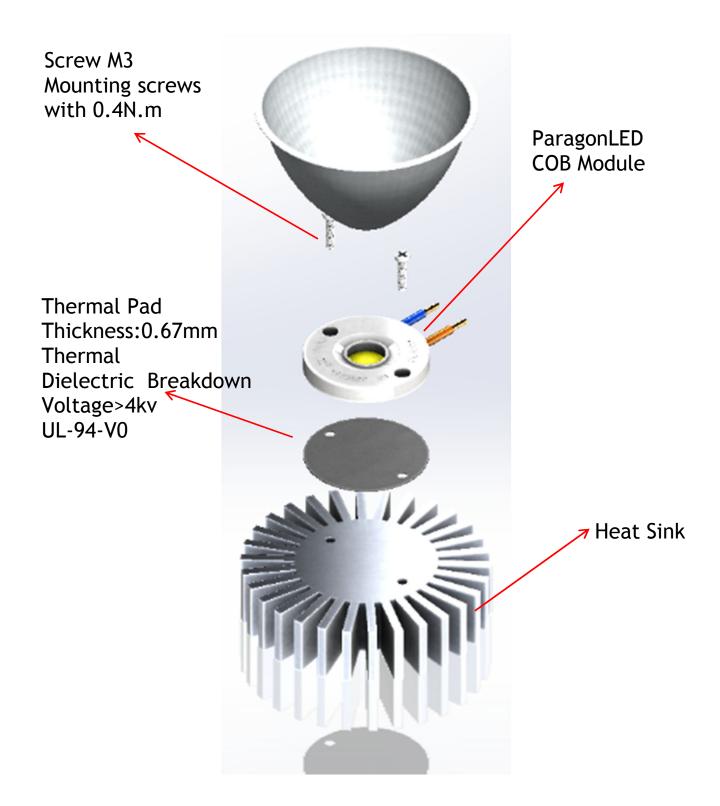
NO.H50135AC Ø3







Assembly Notes



Assembly Notes

Correct

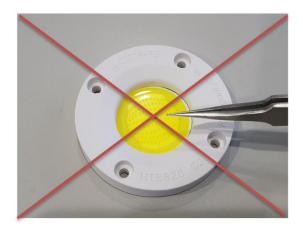
Recommended to use antistatic gloves



Wrong



Do not touch the emitting area



Do not touch the emitting area



About ParagonLED

Established in 2008, Paragon Semiconductor Lighting Technology Co., Ltd. (ParagonLED®) has been devoted to be a comprehensive supplier of COB LED products. Our product lines include 1.AC LED module 2.Thermal management integration 3.Optical integration 4.AI integration 5.Constant power module series. We have been addressed ourselves to provide good quality products to satisfy clients' needs. Meanwhile we are not in a standstill situation, but keep pursuing progression and innovation.

ParagonLED® pride ourselves on our products, so we have overall arrangement in patent; the total applied patents have been reached 135 items until now. Our manufacturing techniques are also patented by many countries, and we still keep moving forward. Meanwhile we supply good quality products with good performance on CRI and efficiency (lm/w), and strictly controlled CCT.

In ParagonLED®, we do not only supply products, but also provide technical recommendations. What's more, we are more than willing to solve problems with clients together. Hence ParagonLED® and our clients can work together to supply reliable and qualified products to end users!

Devote ourselves to bring more added-value to clients

→Direct Marketing + Localized operation

We have offices in Taiwan, in DongGuan, China, so that we can deal with enquiries directly. Also with agents in many different countries, we and they are able to take care of clients on local basis.

• → Fast delivery

With the manufacturing site located in New Taipei City Linkou, Taiwan, we have different yet convenient transportation ways to reach the world.

→Customized service

Through professional and experienced research and development techniques, we provide customized products that can be tailored to different requirements.

