

# Kai Ho Technology

## Product Specification

Kai Ho Tech Project Name: KH-0004

Kai Ho Tech Product Part Number: EA00040000A/EA00200000A

Description:

- D46xH50 Highly Conductive Extruded Aluminum Heat Sink
- EA00200000A is for Anodized Natural Color and  
EA00040000A is for Anodized Black Color
- Standard height 50mm, other heights on request.

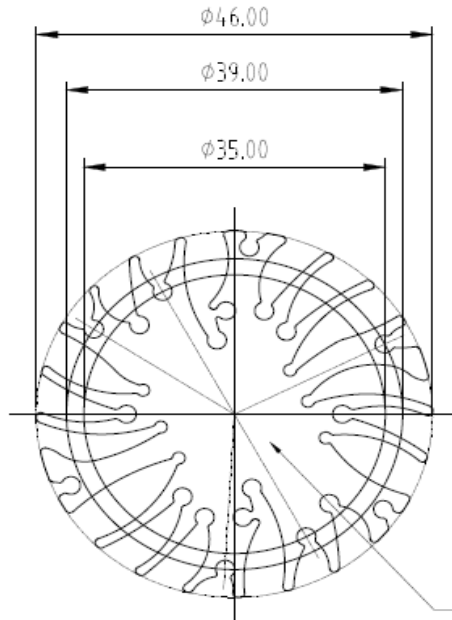
Issue Date: 2018/09/01

Rev: A

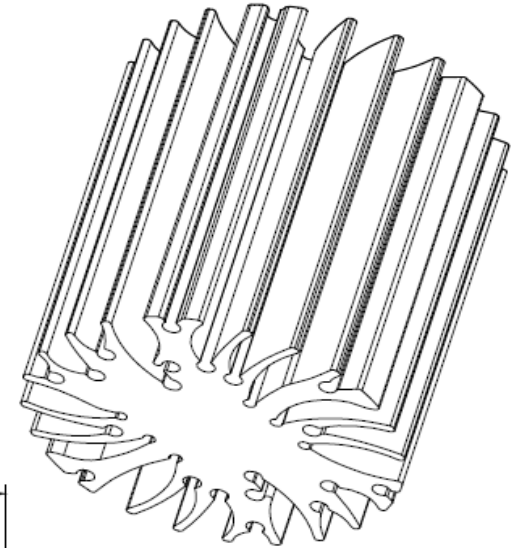
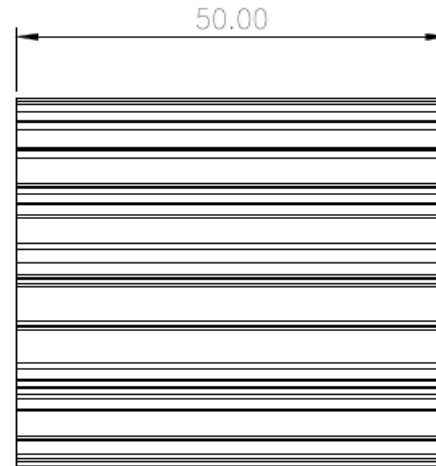
# Drawing

## NOTES:

1. SINK MATERIAL :EN AW-AL6063-T5
2. SINK FINISH : ANODIZE NATURAL COLOR(EA00200000A)  
/ANODIZE BLACK COLOR(EA00040000A)
3. ROHS COMPLIANT
4. Burr height must be under 0.05mm.
5. ★dimension need to do critical control.



0.05  
(INSIDE THE DIAMETER  
INDICATED, MODULE  
SIDE ONLY)



REVISIONS				
LTR	DATE	UPDATE DESCRIPTION	SIGN	EC NO.
△				

MATERIAL AL6063-T5		Kai Ho Technology		
METHOD	COLOR			
HEAD		DESCRIPTION KH-0004		
0-10 ± 0.1 10-50 ± 0.15 50-100 ± 0.20 100+ ± 0.25 ANGLES = ± 5°		PART NO. EA00040000A/EA00200000A		
SHEET SIZE A4		SCALE 1:1		SHEET 1 OF 1
DESIGNED DATE J.T. 2018-08-11	CHECKED DATE J.T. 2018-08-11	UNIT mm	VER A	APPROVED DATE J.T. 2018-08-11

Project: KH-0004    Part Number: EA00040000A/EA00200000A	
Application	LED Lighting
Dimension	D46XH50mm
Weight	123g
Thermal Resistance Rca (°C/W)	5.0
Power Pt (W)	10.0
Material	AL 6063-T5
Thermal Grease/PAD	None

- The Thermal Resistance Data Rca is determined with a calibrated dummy heater of 30mmx30mm central placed on the heat sink, Ta 40°C and an open environment. Reference Data @Tc to ambient temperature Ta rise (Tc-Ta) 50 °C
- Dissipated Thermal Power Pt (W). Reference Data @Tc to ambient temperature Ta rise (Tc-Ta) 50 °C  
 The maximal dissipated thermal power Pt (W) need to be tested based on real case temperature Tc or junction temperature Tj and related to the targeted ambient temperature where the customer lighting fixture been applied.  
 LED Module Dissipated Thermal Power (Pt) is not the same as the LED electrical power (Pe).  
 $Pt = Pe * (1 - \text{Lighting Efficiency \% of LED Module})$

## ● Thermal Data

Dissipated Thermal Power Pt (W)	Pt=Pe * (1-Lighting Efficiency %) PS: LED Packages Heat Loss Rate (Heat Need to be Dissipated) can be found in each LED Packages Maker DS.	Heater Tc to Ambient Ta Thermal Resistance Rca (°C/W)	Heater Tc to Ambient Ta Temperature Rise Tc-Ta (°C)
			KH-0004 D46xH50
2		6.0	12
4		5.5	22
5		5.4	27
6		5.33	32
8		5.13	41
10		5.0	50

