MechaTronix
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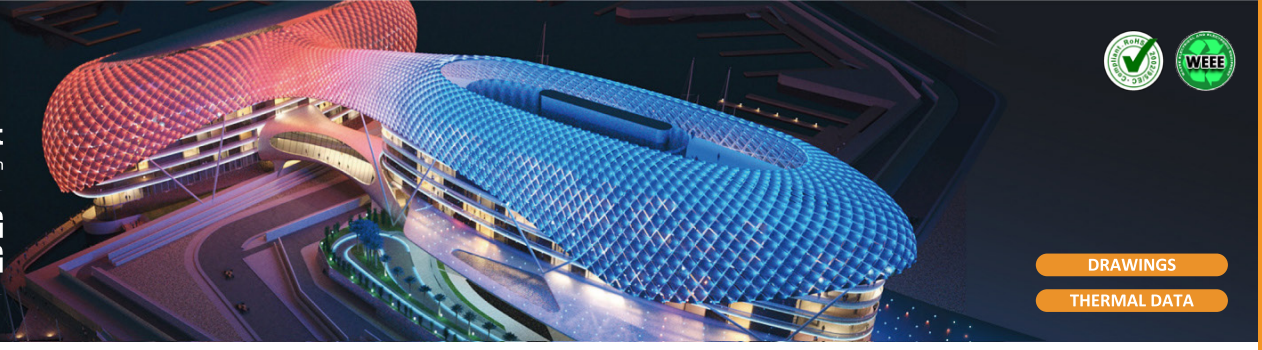
MASTERING LED COOLING

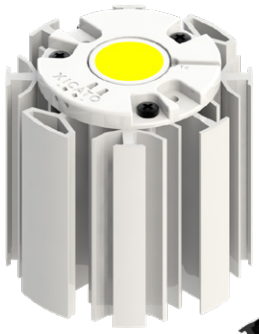


DRAWINGS
THERMAL DATA

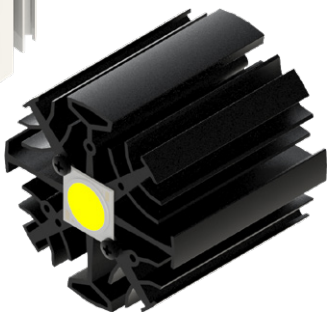
CoolStar® 67 Designer series LED Star Cooler ø67mm

Features & Benefits

- For spot and downlight designs from 1,600 to 4,200 lumen
- Thermal resistance range Rth 2.27 - 3.13°C/W
- Modular design with mounting holes foreseen for a wide range of LED modules and COB's:
  - All Zhaga Book 3 LED engines and holders
  - Bridgelux Gen7 Vero & Décor Vero 13, Vero SE & Décor Vero SE 13/18, Gen7 V 18, Vesta Tunable White 9/13mm, Dim-To-Warm 9mm
  - Citizen CLU028/02J, CLU038/03J, CLU7A2, CLU702, CLU712
  - Cree XLamp CMT14/19, CMA13/15/18
  - Edison EdiPower III HM05/09/13/16/24/30
  - LG Innotek LEMWM18 10W, 13W, 17W, 24W
  - Lumileds Gen4 Luxeon COB's 1203, 1204, 1205
  - Luminus Gen4 CXM-4(Pico-COB)/6/9(AC)/14(AC)/18, CIM-9/14, CLM-9/14, CGM-14, Gen3 CIM-9(AC)/14(AC), CLM-9(AC)/14(AC), CXM-9(AC)/11(AC)/14(AC)/18(AA), Dynamic CDM-9/14, CTM-14/18
  - Nichia NFCWL036-048-060-072B, NFCWD084B
  - Osram PrevaLED Core AC, AC PRO, Z3, Z4
  - Philips Fortimo SLM Gen4 1100, 2000, 3000
  - Prolight Opto PACE, PACF
  - Seoul Semiconductor ZC6, ZC12, ZC18, ZC25
  - Sharp Mega Zenigata
  - Tridonic TALEXX STARK SLE Gen6 10/15/17/19/23mm, Module SLE G7 ADV 09/13/15/17/21mm
  - Vossloh Schwabe Luga Shop Gen6 DMS125, 126, 128
  - Xicato Chip on Board LED light source XOB09/14/23
- Designer series with high end looks and extra functionality - wire pockets at each side of the LED cooler
- Diameter 67mm - Standard height 30mm & 60mm
  Other heights on request
- Black anodized or white electro-coating finishing



Zhaga Book 3



Order Information

LED Holders

BENDER +WIRTH · BJB · IDEAL · TE connectivity

LED Brands

bridgelux · CITIZEN Micro Humantech · CREE · EDISON · LG Innotek · Lit by LUMILEDS · LUMINUS · NICHIA · OSRAM · LED Light for you powered by OSRAM CERTIFIED PARTNER · PHILIPS · ProLight Opto Technology Corporation · SEOUL SEMICONDUCTOR · SHARP · TRIDONIC · LIGHTING SOLUTIONS · Xicato

Example : CoolStar® Black 6730

CoolStar® **1** 67 **2**

1 Finishing Color
Black - Black anodized
White - White electro-coating

2 Height (mm)

CoolStar® 67 is designed in this way that you can mount LED modules from various manufacturers on the same LED cooler

Simple mounting with M3 screws

Recommened screw force 6lb/in

Screws are avaliable from MechaTronix

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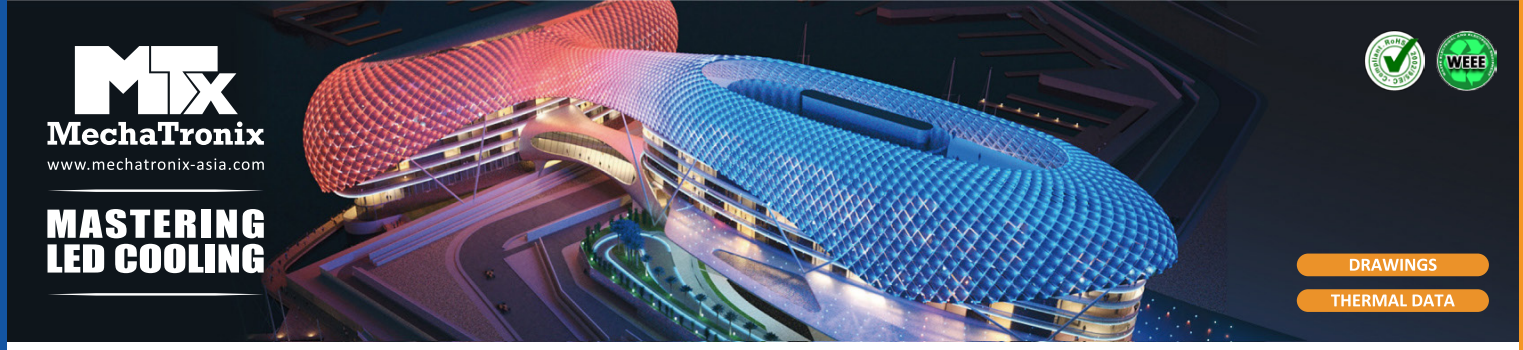
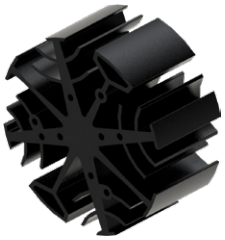
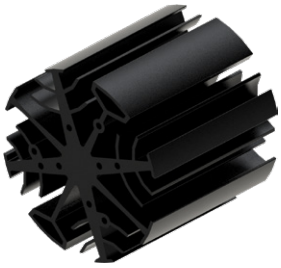


CoolStar® 67 Designer series LED Star Cooler ø67mm

Product Details

Model n°	 CoolStar® 6730	 CoolStar® 6760
Dimension (mm)*1	ø67 x h30	ø67 x h60
Volume (mm^3)	36711	73698
Cooling Surface (mm^2)	31326	59755
Weight (gr)	99	199
Thermal Resistance (°C/W)*2	3.13	2.27
Power Pd (W)*3	16	22
Heat Sink Material	AL6063-T5	AL6063-T5

*1 3D files are avaliable in ParaSolid, STP and IGS on request

*2 The thermal resistance Rth is determined with a calibrated heat source of 15mm x 15mm central placed on the heat sink, Tamb 40° and an open environment. Reference data @ heat sink to ambient temperature rise Ths-amb 50°C
The thermal resistance of a LED cooler is not a fix value and will vary with the applied dissipated power Pd

*3 Dissipated power Pd. Reference data @ heat sink to ambient temperature rise Ths-amb 50°C
The maximal dissipated power needs to be verified in function of required case temperature Tc or junction temperature Tj and related to the estimated ambient temperature where the light fixture will be placed
Please be aware the dissipated power Pd is not the same as the electrical power Pe of a LED module

To calculate the dissipated power please use the following formula: $Pd = Pe \times (1-\eta L)$
Pd - Dissipated power
Pe - Electrical power
ηL = Light effciency of the LED module

Notes:

- MechaTronix reserves the right to change products or specifications without prior notice.
- Mentioned models are an extraction of full product range.
- For specific mechanical adaptations please contact MechaTronix.

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