MechaTronix
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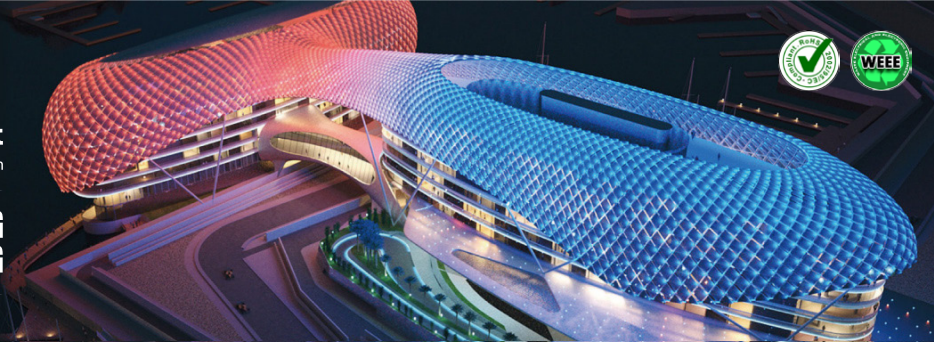
MASTERING
LED COOLING



IceLED Ultra

ø99 x H75 (mm)
Rth 0.25 °C/W
Power Pd 200 W

MORE PRODUCT DETAILS

IceLED Ultra | Lumileds Modular Active Star LED Cooler ø99mm

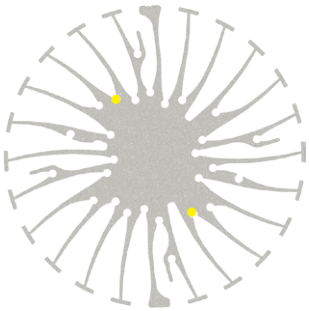
Mounting Instruction

Lit by LUMILEDS

Lumileds LUXEON COB is a new breakthrough in efficacy for arrays. Due to its industry leading small Light Emitting Surfaces (LES), the COB array is very easy work with and will enable easier and less expensive designs. All LUXEON COBs are available in a single 3-step as well as a single 5-step MacAdam Ellipse, ensuring uniform optical performance in the application. Ideal applications include down lights and directional lamps.

Mounting indicator marks overview

MechaTronix recommends the use of a high thermal conductive interface between the LED module and the LED cooler. Either thermal grease, a thermal pad or a phase change thermal pad thickness 0.1-0.15mm is recommended. Thermal pads or phase change thermal pads can be pre-applied from MechaTronix.



Lumileds Luxeon Gen 4 Luxeon CoB Core Range 1321 - 1825

Model names

- L2C5-xxxx1825G3200

Mounting

- Direct mounting with 2 self tapping screws M3 x 6mm
  Yellow indicator marks

No.818, Dashun 2nd Rd., Sanmin Dist., Kaohsiung City 80787, Taiwan
sales@mechatronix-asia.com www.led-heatsink.com www.mechatronix-asia.com
Tel: +886-7-381-5892 Fax: +886-7-383-9293 VAT: 28600841

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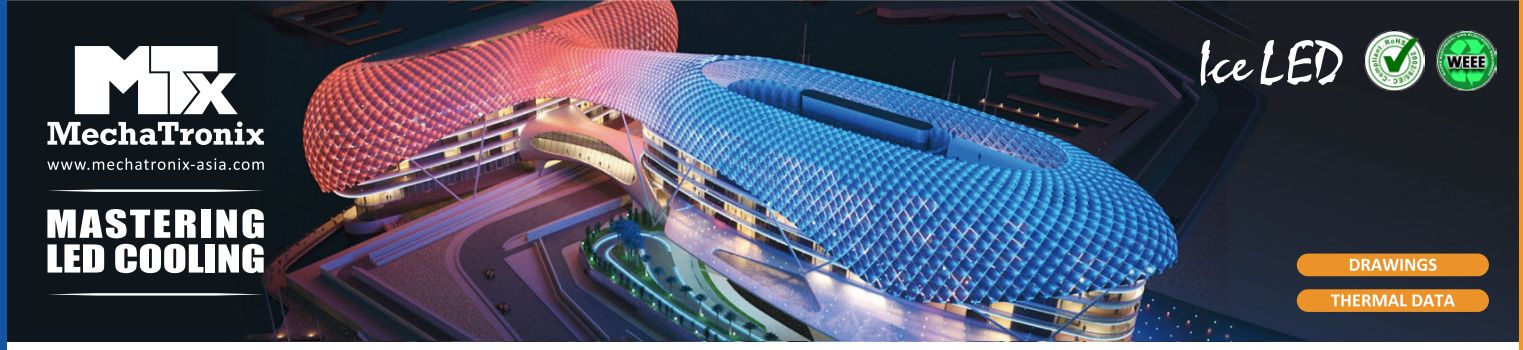
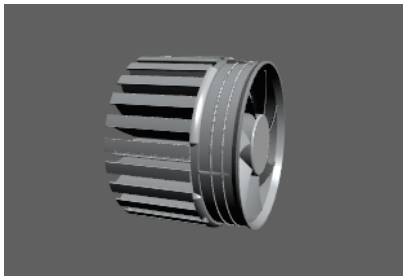


IceLED Ultra Modular Active Star LED Cooler ø99mm

Product Details

Model n°	 IceLED Ultra
Dimension (mm)*1	ø99 x h75
Fan Voltage (Vdc)*2	12
Fan Speed (RPM)	3000
Noise @ 1m (dBA)	<39
Weight (gr)	400.39
Thermal Resistance (°C/W)*3	0.25
Power Pd (W)*4	200
Heat Sink Material	AL6063-T5

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

*2 The fan requires a constant voltage power source of 12Vdc, 230mA, 2.76W

*3 The thermal resistance Rth is determined with a calibrated heat source of 30mm x 30mm 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

*4 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 x (1-ηL)
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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