

IceLED Xtra | Lumileds Modular Active Star LED Cooler ø99mm

Features & Benefits

- For spot and downlight designs from 10,500 to 21,000 lumen
- Thermal resistance range Rth 0.46°C/W
- Modular design with mounting holes foreseen for Lumileds Luxeon Gen4 1812 LED COB by use of LED holder.
- Diameter 99mm - Height 55mm
Other heights on request
- High lifetime design >60Khrs (L 10 life time @40°C)
- Warranty 5 years



Order Information

Zhaga



Example : IceLED Xtra 550

IceLED Xtra **1**

- 1** Height (mm)
Overall height top to bottom
(Fan height 25mm)
IceLED 550 - 55mm

Simple mounting with self tapping screws
Recommended screw force 6lb/in
Screws are available from MechaTronix

IceLED Xtra Modular Active Star LED Cooler ø99mm

Product Details



Model n°

IceLED Xtra 550

Dimension (mm) ^{*1}	ø99 x h55
Fan Voltage (Vdc) ^{*2}	12
Fan Speed (RPM)	1500
Noise @ 1m (dBA)	<21
Weight (gr)	266
Thermal Resistance (°C/W) ^{*3}	0.46
Power Pd (W) ^{*4}	109
Heat Sink Material	AL6063-T5

^{*1} 3D files are available in ParaSolid, STP and IGS on request

^{*2} The fan requires a constant voltage power source of 12Vdc, 50mA

^{*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: $Pd = Pe \times (1 - \eta_L)$

Pd - Dissipated power

Pe - Electrical power

η_L = Light efficiency 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.