### Features & Benefits

- **For spot and downlight designs from 3,600 to 9,400 lumen**
- **Thermal resistance range Rth 1.02 - 1.34°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 Vero & Décor Vero 13/18, Vero SE & Décor Vero SE 13/18, Gen7 V13/18/22, Gen7 V9 HD, Vesta Dim-To-Warm 15mm
  - Citizen Citiled CLU038/03J, CLU048/04J, CLU712
  - Cree XLamp CMT14/19/28, CMA15/18/25
  - Edison Opto EdiPower III HM16/24/30/40, Edilex SLM modules
  - LG Innotek LEMWM18 10W/13W/17W/24W, LEMWM28
  - Lumileds Luxeon Gen4 Range 1205/1208/1211/1216/1812, Gen4 Range High Density 1204/1205
  - Luminus Xnova CHM-11-XH00, CVM-14, CVM-18, CVM-22, CXM-22 (ACxx) CVM-11, CLM-14, CXM-14, CHM-14
  - Nichia NFCWL368B/048B/060B/072B, NFCWD084B/096B, NFCW108B/120B, NFDW130B, NVEWL016Z
  - Osram PrevalLED Core G7 L15 H1, G7 Food / Fashion LED modules
  - Philips Fortimo SLM Gen4, 1205 - 1208 Gen6 LED modules
  - Prolight Opto PACF, PACG
  - Seoul Semiconductor ZC18, ZC25, ZC40, ZC60, Acrich MJT 19x19/28x28mm
  - Tridonic TALEXKmotule SLE Gen5 15/19/23mm, SLE Gen6 15/17mm D50, GEN6 19/23mm Advanced, G6 19/23mm FOOD/FASHION/ART EXC, SLE G7 ADV 15/17mm
  - Vossloh Schwabe Luga Shop Gen6 DMS120, 12C, 125, 126, 128, 18B
  - Xicato Chip on Board LED light source XOB14/23
- **Diameter 99mm - Standard height 50mm & 80mm Other heights on request**
- **Extruded from highly conductive aluminum**

### Order Information

**Example : ModuLED 9950-B**

<table>
<thead>
<tr>
<th>ModuLED 99</th>
<th>1 - 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Height (mm)</td>
<td></td>
</tr>
<tr>
<td>2 Anodising Color</td>
<td></td>
</tr>
<tr>
<td>B - Black</td>
<td></td>
</tr>
<tr>
<td>C - Clear</td>
<td></td>
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</tbody>
</table>

**ModuLED** is designed in this way that you can mount LED modules from various manufacturers on the same LED cooler

Simple mounting with M3 x 6mm self tapping screws
Recommanded screw force 6lb/in
Screws are available from MechaTronix
ModuLED Modular Passive Star LED Cooler Ø99mm

**Product Details**

<table>
<thead>
<tr>
<th>Model n°</th>
<th>ModuLED 9950</th>
<th>ModuLED 9980</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimension (mm)$^1$</td>
<td>Ø99 x h50</td>
<td>Ø99 x h80</td>
</tr>
<tr>
<td>Volume (mm$^3$)</td>
<td>137181</td>
<td>219491</td>
</tr>
<tr>
<td>Cooling Surface (mm$^2$)</td>
<td>104563</td>
<td>164008</td>
</tr>
<tr>
<td>Weight (gr)</td>
<td>356</td>
<td>573</td>
</tr>
<tr>
<td>Thermal Resistance (°C/W)$^2$</td>
<td>1.34</td>
<td>1.02</td>
</tr>
<tr>
<td>Power Pd (W)$^3$</td>
<td>37.3</td>
<td>48.9</td>
</tr>
<tr>
<td>Heat Sink Material</td>
<td>AL6063-T5</td>
<td>AL6063-T5</td>
</tr>
</tbody>
</table>

$^1$ 3D files are available in ParaSolid, STP and IGS on request

$^2$ The thermal resistance $R_{th}$ 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 $T_{hs-amb}$ 50°C

The thermal resistance of a LED cooler is not a fix value and will vary with the applied dissipated power $P_d$

$^3$ Dissipated power $P_d$. Reference data @ heat sink to ambient temperature rise $T_{hs-amb}$ 50°C

The maximal dissipated power needs to be verified in function of required case temperature $T_c$ or junction temperature $T_j$ and related to the estimated ambient temperature where the light fixture will be placed

Please be aware the dissipated power $P_d$ is not the same as the electrical power $P_e$ of a LED module

To calculate the dissipated power please use the following formula: $P_d = P_e \times (1 - \eta_L)$

$P_d$ - Dissipated power

$P_e$ - Electrical power

$\eta_L$ - 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.