

MechaTronix in LED

– PRODUCT BRIEF –

ModuLED Nano Modular Passive Star LED Cooler ø70mm



Features & Benefits

- For spot and downlight designs from 1,000 to 3,800 lumen
- Thermal resistance range Rth 1.8 - 2.2°C/W
- Modular design with mounting holes foreseen for a wide range of LED modules and COB's:
 - Zhaga Book 3 Spot Light Modules Edison Edilex SLM, Osram PrevaLED Core AC / AC PRO / Z3 / Z4, Philips Fortimo SLM, Seoul Semiconductor ACrich AC Zhaga, Sharp INTERMO, Tridonic Talexx Stark SLE G3 / G4, Vossloh Schwabe Luga Shop, ...
 - Bridgelux BXRA ESS, ESR, Ver0 10/13/18, V-series
 - Citizen Cited CLL022-CLU024-CLU026-CLU028, CLL032-CLU034-CLU036-CLU038, CLU700, CLU710, CLU720
 - Cree XLamp CXA13, CXB13, CXA15, CXB15, CXA18, CXB18
 - Edison EdiPower II Star/HM/CAC series
 - LG Innotek LEMWM18 10W, 13W, 17W, 24W
 - Lumileds Luxeon COB's 1203, 1204, 1205, 1208, 1211, 1216, Luxeon K arrays K12, K16
 - Luminus CLM-9 (ACxx), CXM-9 (ACxx), CHM-9 (ACxx), CXM-11 (ACxx), CHM-11-XH00, CLM-14 (ACxx), CXM-14 (ACxx), CHM-14 (ACxx), CVM-14, CXM-18, CLM-22
 - Osram Soleriq P6, P9, P13, S13, S19
 - Prolight Opto PACE, PACF, PABS, PABA, PACB, PACC, PANA
 - Seoul Semiconductor ZC6, ZC12, ZC18, ZC25, ZC40
 - Sharp Mega Zenigata, Tiger Zenigata, Mini Zenigata
 - Tridonic TALEXX Stark SLE GEN3-19, -23, Mini LES-10, LES-17, TALEXXmodule SLE GEN1 11/15mm, SLE GEN4 10/15/19/23mm, 15mm D50, SLE GEN5 06/11/15/19/23mm, SLE GEN6 10/15/17/19/23mm, 15/17mm D50
 - Vossloh Schwabe Luga Shop C 2016 DMC 124, 125, 128
- Diameter 70mm - Standard height 50mm & 80mm
Other heights on request
- Extruded from highly conductive aluminum



Order Information

Example : ModuLED Nano 7050-B

ModuLED Nano 70 **1** - **2**

- 1** Height (mm)
- 2** Anodising Color
B - Black
C - Clear

ModuLED Nano is designed in this way that you can mount LED modules from various manufacturers on the same LED cooler
Simple mounting with self tapping screws
Recommended screw force 6lb/in
Screws are available from MechaTronix

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ModuLED Nano Modular Passive Star LED Cooler ϕ 70mm



Product Details

Model n°	<i>ModuLED Nano 7050</i>	<i>ModuLED Nano 7080</i>
Dimension (mm) ^{*1}	ϕ 70 x h50	ϕ 70 x h80
Volume (mm ³)	69498	112480
Cooling Surface (mm ²)	66919	104875
Weight (gr)	188	304
Thermal Resistance (°C/W) ^{*2}	2.2	1.8
Power Pd (W) ^{*3}	22.7	27.8
Heat Sink Material	AL6063-T5	AL6063-T5

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

^{*2} 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

^{*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

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.