



for

LED

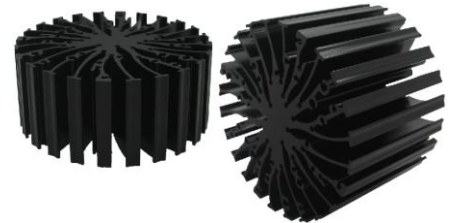


**EtraLED**

**EtraLED -VOS-9680 Vossloh-Schwabe Modular Passive tar LED Heat Sink  $\Phi$ 96mm**

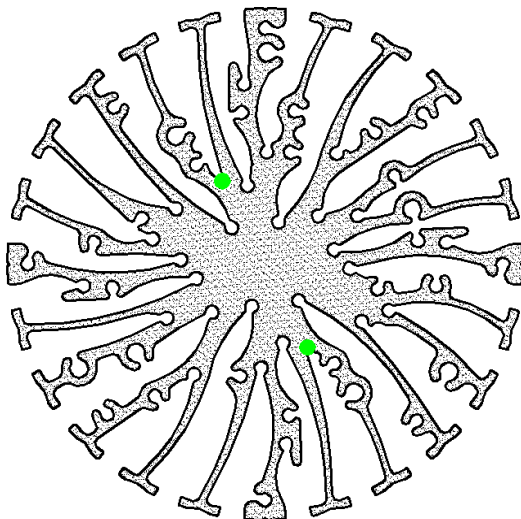
**Features VS Benefits**

- \* The EtraLED-VOS-9680 Vossloh-Schwabe Modular Passive LED Coolers are specifically designed for luminaires using the Vossloh-Schwabe LED engines.
- \* Mechanical compatibility with direct mounting of the LED engines to the LED cooler and thermal performance matching the lumen packages.
- \* For spotlight and downlight designs from 1200 to 6000 lumen.
- \* Thermal resistance range  $R_{th}$  0.92°C/W.
- \* Modular design with mounting holes foreseen for direct mounting of Vossloh-Schwabe LUGA Shop LED engines.
- \* Diameter 96mm - standard height 80mm Other heights on request.
- \* Extruded from highly conductive aluminum.



**Zhaga LED engine and radiator assembly is a unified future international standardization**

- \* Below you find an overview of Vossloh-Schwabe engines COB's and LED modules which standard fit on the EtraLED coolers.
- \* In this way mechanical after work and related costs can be avoided, and lighting designers can standardize their designs on a limited number of LED coolers.



**Vossloh-Schwabe LED engines Mounting Options**

**For the LUGA Shop 2014 Module.**

WU-M-485-827; WU-M-485-835; WU-M-486-827; WU-M-486-835;  
WU-M-485-830; WU-M-485-840; WU-M-486-830; WU-M-486-840;

**For the LUGA Shop 2014 PW Module.**

WU-M-485-831-PW; WU-M-486-831-PW;

**For the LUGA Shop 2014 HiCRI LED Module.**

WU-M-485-927; WU-M-485-935; WU-M-486-927; WU-M-486-935;  
WU-M-485-930; WU-M-485-940; WU-M-486-930; WU-M-486-940;

**For the LUGA Shop 2014 PW Module.**

WU-M-485-931-PW; WU-M-486-931-PW;

**For the LUGA Shop 2014 FOOD LED engines which holder.**

WU-M-486-Ga30; WU-M-486-Ga40; WU-M-486-Meat; WU-M-486-SMeat;

**For the LUGA Shop 2014 PCB LED engines and the holder.**

DMS158C27E1; DMS158C35E1; DMS128C27E1; DMS128C35E1;  
DMS158C30E1; DMS158C40E1; DMS128C30E1; DMS128C40E1;

**For the LUGA Shop 2014 PCB PW LED engines which holder.**

DMS128C31EP1; DMS158C31EP1;

**For the LUGA Shop 2014 PCB HiCRI LED engines and the holder.**

DMS158D27E1; DMS158D35E1; DMS128D27E1; DMS128D35E1;  
DMS158D30E1; DMS158D40E1; DMS128D30E1; DMS128D40E1;

**For the LUGA Shop 2014 PCB PW LED engines which holder.**

DMS128D31EP1; DMS158D31EP1;

**For the LUGA Shop 2014 PCB FOOD LED engines which holder.**

DMS158G30E1; DMS158G40E1; DMS158P40E1; DMS158P19E1;

**For the LUGA C 2015 LED engines.**

(AAG.STUCCHI holder:8101-G2); (BJB holder:47.319.2021.50);

DMC118C27E; DMC118C30EB; DMC118C40E; DMC118B50E;  
DMC118C30E; DMC118C35E; DMC118C50E;

**For the LUGA C 2015 LED engines.**

(AAG.STUCCHI holder:8102-G2); (BJB holder:47.319.2030.50);

DMC11CCxxx; DMC16CCxxx; DMC17CCxxx;  
DMC11CBxxx; DMC16CBxxx; DMC17CBxxx;

Zhaga Book3 Green indicator marks:

Mounting with machine screws M3x6mm;

Please refer to the "www.vossloh-schwabe.com" data provided on the manual.

Tel:+86-769-39023131  
E-fax:+86-(020)28819702 ext:22122  
Email:sales@mingfatech.com  
Http://www.heatsinkled.com  
Http://www.mingfatech.com



**EtraLED** EtraLED -VOS-9680 Vossloh-Schwabe Modular Passive tar LED Heat Sink  $\Phi$ 96mm

**Mounting Options and Drawings & Dimensions**

Example:EtraLED-VOS-9680-B-3

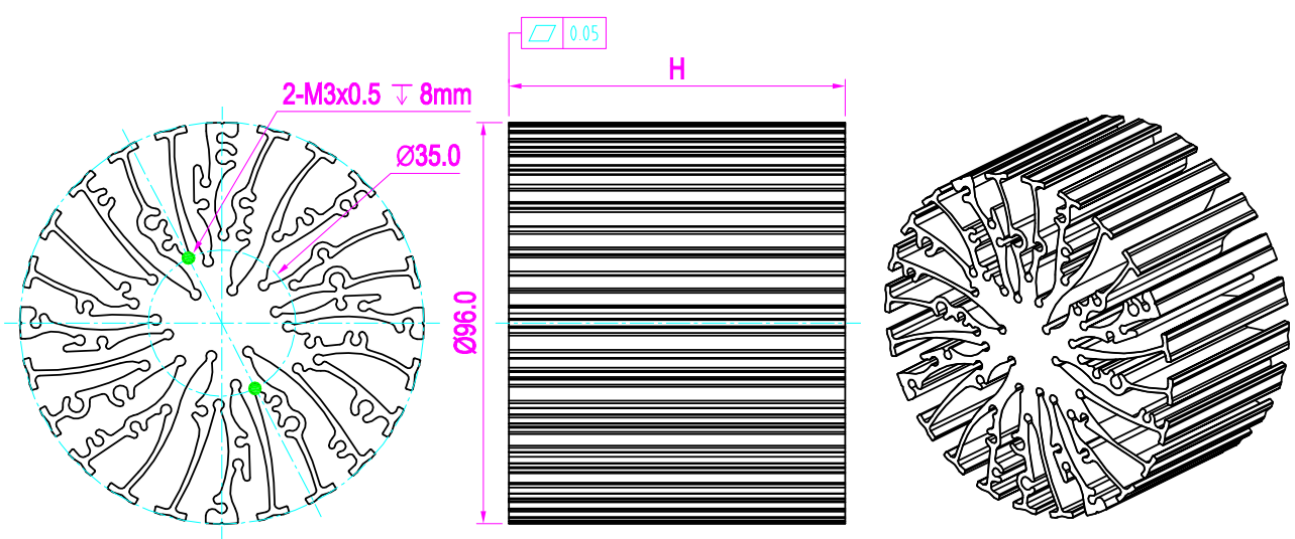
Example:EtraLED-VOS-96 **1** - **2** - **3**

- 1** Height (mm)
- 2** Anodising Color  
B-Black  
C-Clear  
Z-Custom
- 3** Mounting Options - see graphics for details Combinations available  
Ex.order code - 12  
means option 1 and 2 combined



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


MOUNTING OPTION	Module type	Holder NO.	THREAD	THREAD DEPTH	THREAD HOLE DISTANCE
1	LUGA C	BJB (47.319.2021.50) (47.319.2030.50)	M3	6mm	35.0mm/ 2-@180°
		AAG.STUCCHI (8101-G2) (8102-G2)			
	LUGA Shop 2014 PCB	Vossloh-Schwabe			
	LUGA Shop 2014	/			



*EtraLED*

EtraLED -VOS-9680 Vossloh-Schwabe Modular Passive tar LED Heat Sink  $\Phi$ 96mm

The thermal data table

	
	<i>EtraLED-9680</i>
<b>Model No.</b>	EtraLED-VOS-9680
<b>Size</b>	$\Phi$ 96xH80mm
<b>Material</b>	AL6063-T5
<b>Finish</b>	Black Anodized
<b>Weight(gr)</b>	575
<b>Thermal Wattage</b>	49.2W
<b>HeatsinkOs-a<sup>2</sup></b>	180427
<b>Heat Sink T<sub>Rise</sub> Above Ambient</b>	0.92

Dissipated Power Pd(W)	$P_d = P_e \times (1-\eta_L)$	Heat sink to ambient thermal resistance Rhs-amb (°C/W)	Heat sink to ambient temperature rise Ths-amb (°C)
		EtraLED-VOS-9680	EtraLED-VOS-9680
5		3.40	17.5
15		1.43	21.5
20		1.32	26.4
25		1.21	30.3
30		1.32	39.6
35		1.15	40.3
40		1.12	44.8
45		1.08	48.6
50		1.02	51.0

