PINLED Heat Sink

Wakefield- Vette's PinLED is designed with 99.7% high-purity aluminum cold forging process. The design of the series is simple and gorgeous, and the blade is cylindrical, which makes the convection heat dissipation reasonable. This is compatible with Light Modules such as Edison, Xicato, Bridgelux, Osram, Lumileds, Cree, Tridonic, LG, Lustrous, Prolight, Samsung, SHARP, Luminus and Philips.

Features:

- Mechanical compatibility with direct mounting of the LED modules to the LED cooler and thermal performance matching the lumen packages
- Several Diameters, Several Standard heights
- Forged from highly conductive aluminum
- Black Anodized
- Blank surface with no holes to mount any device listed below

Compatible with:

- Xicato XSM, XIM,XTM
- Bridgelux ESS, ESR, Vero 10, Vero 13, Vero 18 V-series
- Citizen CLL024-CLU028, CLL034-CLU038
- Cree XLamp CXA13xx, CXA15xx, CSA18xx
- Lumileds Luxeon COB's 1203, 1204, 1205, Luxeon K arrays K12, K16
- Osram PrevaLED Core, SOLERIQ P and SOLERIQ S LED engines
- Seoul Semiconductor ZC6, ZC12, ZC18, ZC25
- Tridonic TALEXXmodule SLE modules
- LG Innotek LEMWM18 10W, 13W, 17W
- Edison EdiLex SLM and EdiLex II COB LED engines
- Lustrous LUSTRON 6 series LL604F, LL608D, LL613F, LL620F
- Prolight Opto PABS, PABA, PACB, PANA
- Samung LC013, LC019, LC026 COB LED engines
- SHARP Mini Zenigata Intermo and Mega Zenigata LED engines
- Philips Fortimo SLM LED engines
- Vossloh-Schwabe LUGA Shop LED engines
- Luminus C##9, C##14 LED engines

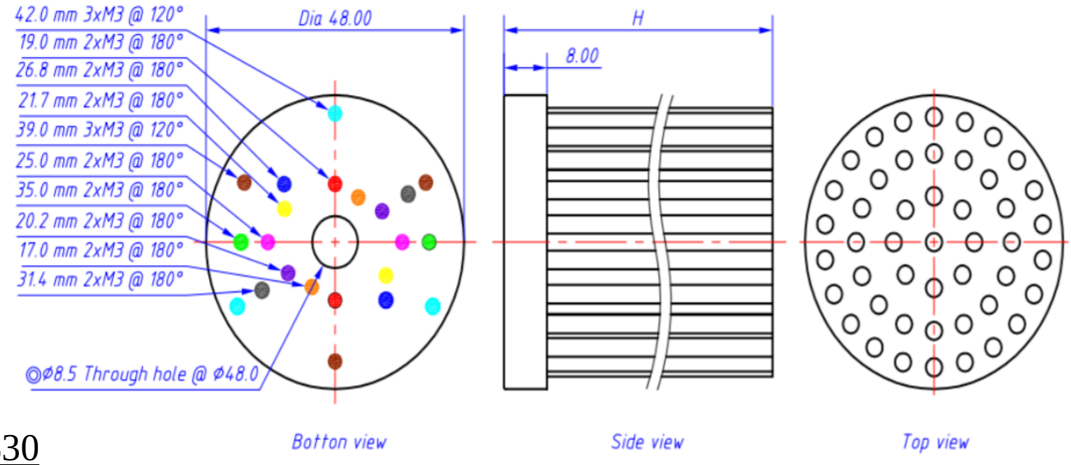
PINLED Heat Sink

48mm Diameter

WKV Part Number	Description	Height (mm)	Diameter (mm)	Max. Lumen (lm)	Dissipated Power (W)	Thermal Resistance (°C/W)	Weight (g)
PINLED-4830	Pin LED Heat Sink 48MM DIA 30H	30	48	1100	8	6.25	46
PINLED-4850	Pin LED Heat Sink 48MM DIA 50H	50	48	1400	10	5	64

*Note: All Bases Have no Holes

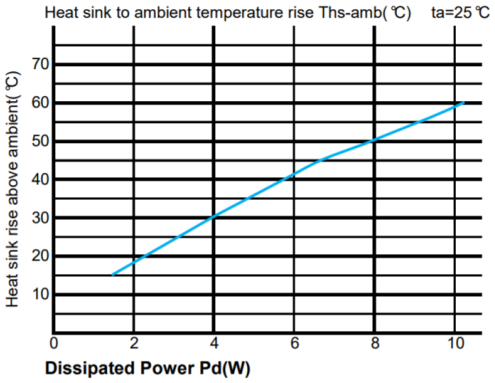
No.	Finish	Mounting Hole
A1		17.0 mm 2xM3 @ 180°
A2		19.0 mm 2xM3 @ 180°
A3		20.2 mm 2xM3 @ 180°
A4		21.7 mm 2xM3 @ 180°
A5		25.0 mm 2xM3 @ 180°
A6		26.8 mm 2xM3 @ 180°
A7		31.4 mm 2xM3 @ 180°
A8		35.0 mm 2xM3 @ 180°
A9		39.0 mm 3xM3 @ 120°
A10		42.0 mm 3xM3 @ 120°
A11		◎ Ø8.5 Through hole @ Ø48.0



Thermal Data PINLED-4830

Pd = Pe x (1-ηL)	Heat sink to ambient thermal resistance Rhs-amb (℃/W)	Heat sink to ambient temperature rise Ths-amb (℃)
2	9	18
4	7.5	30
6	7	42
8	6.25	50
10	5.9	59

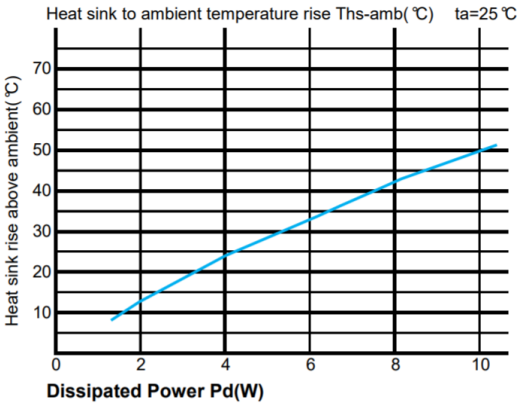
Dissipated Power Pd(W)



Thermal Data PINLED-4850

Pd = Pe x (1-ηL)	Heat sink to ambient thermal resistance Rhs-amb (℃/W)	Heat sink to ambient temperature rise Ths-amb (℃)
2	7	14
4	6.25	25
6	5.67	34
8	5.38	43
10	5	50

Dissipated Power Pd(W)



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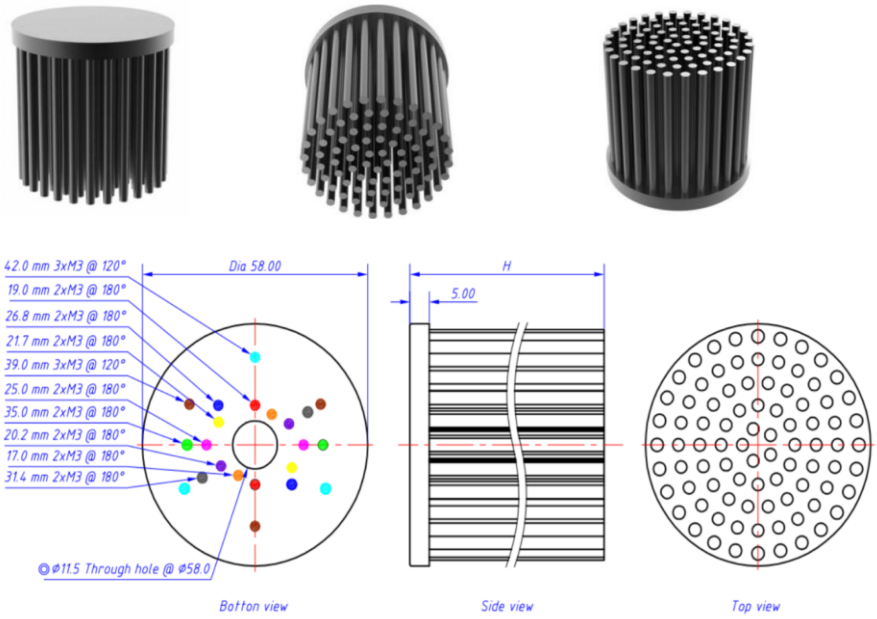
PINLED Heat Sink

58mm Diameter

WKV Part Number	Description	Height (mm)	Diameter (mm)	Max. Lumen (lm)	Dissipated Power (W)	Thermal Resistance (°C/W)	Weight (g)
PINLED-5830	Pin LED Heat Sink 58MM DIA 30H	30	58	1400	10	5	79
PINLED-5850	Pin LED Heat Sink 58MM DIA 50H	50	58	1800	13	3.85	108

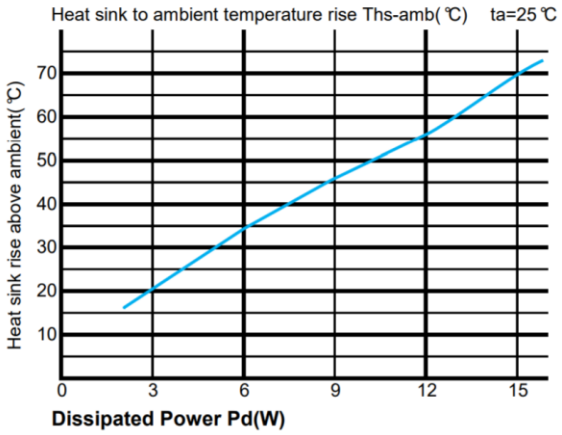
*Note: All Bases Have no Holes

No.	Finish	Mounting Hole
A1		17.0 mm 2xM3 @ 180°
A2		19.0 mm 2xM3 @ 180°
A3		20.2 mm 2xM3 @ 180°
A4		21.7 mm 2xM3 @ 180°
A5		25.0 mm 2xM3 @ 180°
A6		26.8 mm 2xM3 @ 180°
A7		31.4 mm 2xM3 @ 180°
A8		35.0 mm 2xM3 @ 180°
A9		39.0 mm 3xM3 @ 120°
A10		42.0 mm 3xM3 @ 120°
A11		◎Ø11.5 Through hole @ Ø58.0



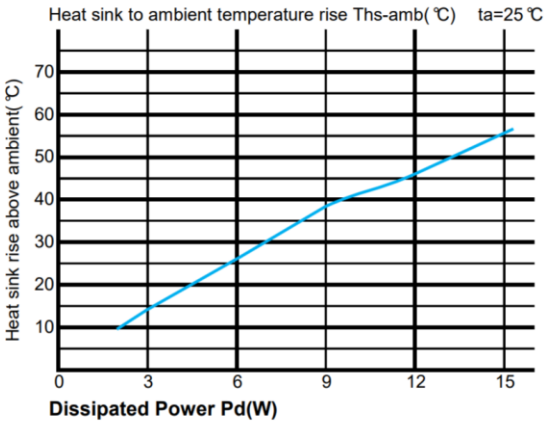
Thermal Data PINLED-5830

Pd = Pe x (1-ηL)		Heat sink to ambient thermal resistance Rhs-amb (℃/W)	Heat sink to ambient temperature rise Ths-amb (℃)
Dissipated Power Pd(W)	3	6.67	20
	6	5.83	35
	9	5.11	46
	12	4.75	57
	15	4.67	70



Thermal Data PINLED-5850

Pd = Pe x (1-ηL)		Heat sink to ambient thermal resistance Rhs-amb (℃/W)	Heat sink to ambient temperature rise Ths-amb (℃)
Dissipated Power Pd(W)	3	5	15
	6	4.67	26
	9	4.33	39
	12	4	46
	15	3.8	57



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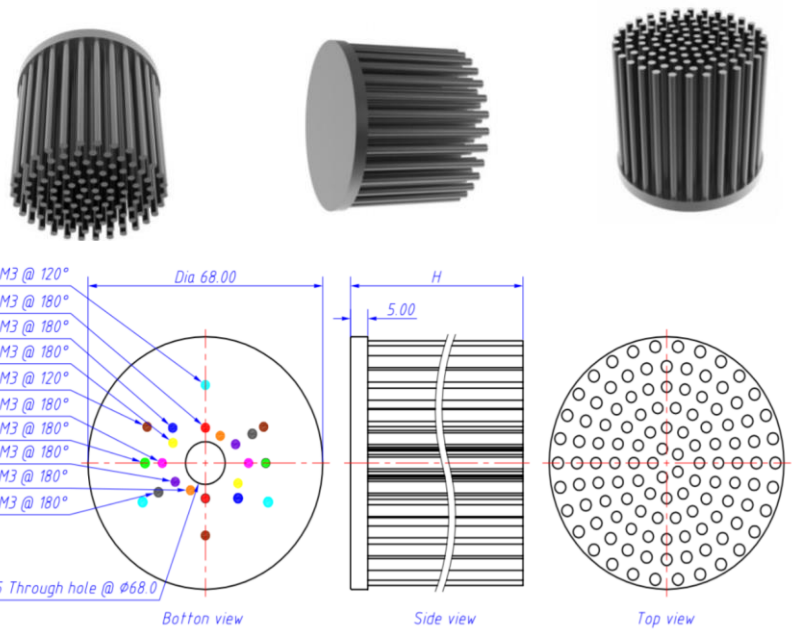
PINLED Heat Sink

68mm Diameter

WKV Part Number	Description	Height (mm)	Diameter (mm)	Max. Lumen (lm)	Dissipated Power (W)	Thermal Resistance (°C/W)	Weight (g)
PINLED-6830	Pin LED Heat Sink 68MM DIA 30H	30	68	1900	12.5	4	77
PINLED-6860	Pin LED Heat Sink 68MM DIA 60H	60	68	2800	15.5	3.23	192

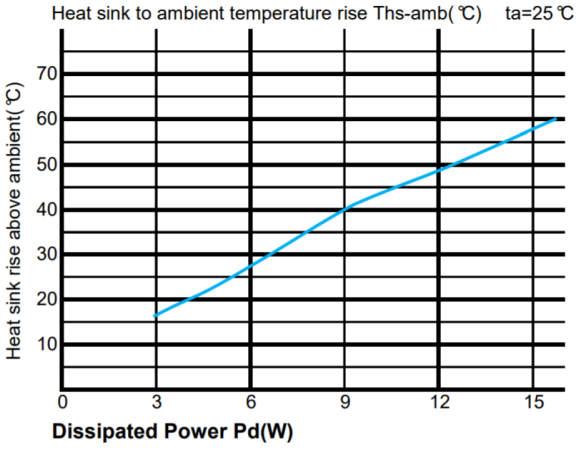
*Note: All Bases Have no Holes

No.	Finish	Mounting Hole
A1		17.0 mm 2xM3 @ 180°
A2		19.0 mm 2xM3 @ 180°
A3		20.2 mm 2xM3 @ 180°
A4		21.7 mm 2xM3 @ 180°
A5		25.0 mm 2xM3 @ 180°
A6		26.8 mm 2xM3 @ 180°
A7		29.7 mm 2xM3 @ 180°
A8		31.4 mm 2xM3 @ 180°
A9		35.0 mm 2xM3 @ 180°
A10		39.0 mm 3xM3 @ 120°
A11		42.0 mm 3xM3 @ 120°
A12		◎ Ø11.5 Through hole @ Ø68.0



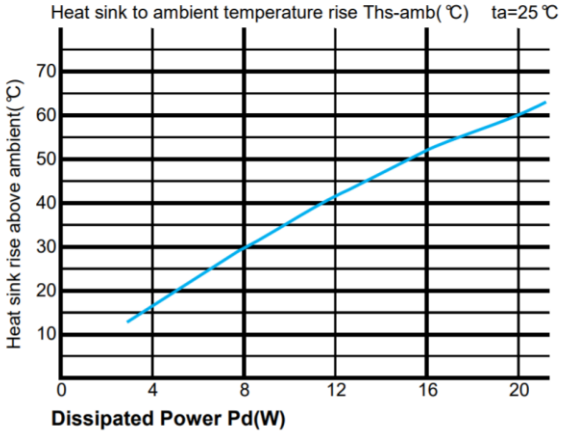
Thermal Data PINLED-6830

Pd = Pe x (1-ηL)		Heat sink to ambient thermal resistance Rhs-amb (℃/W)	Heat sink to ambient temperature rise Ths-amb (℃)
Dissipated Power Pd(W)	3	5.67	17
	6	4.67	28
	9	4.44	40
	12	4.08	49
	15	3.87	58



Thermal Data PINLED-6860

Pd = Pe x (1-ηL)		Heat sink to ambient thermal resistance Rhs-amb (℃/W)	Heat sink to ambient temperature rise Ths-amb (℃)
Dissipated Power Pd(W)	4	4.25	17
	8	3.75	30
	12	3.42	41
	16	3.25	52
	20	3	60



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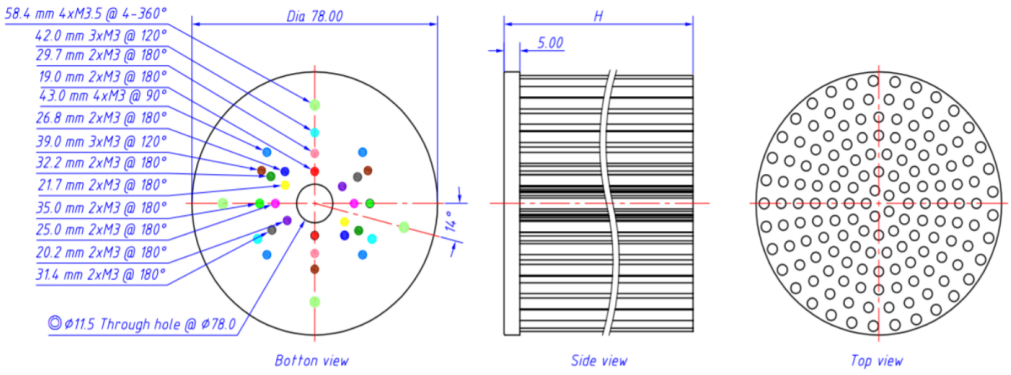
PINLED Heat Sink

78mm Diameter

WKV Part Number	Description	Height (mm)	Diameter (mm)	Max. Lumen (lm)	Dissipated Power (W)	Thermal Resistance (°C/W)	Weight (g)
PINLED-7830	Pin LED Heat Sink 78MM DIA 30H	30	78	2300	16.5	3.03	138
PINLED-7850	Pin LED Heat Sink 78MM DIA 50H	50	78	2900	21.5	2.33	197

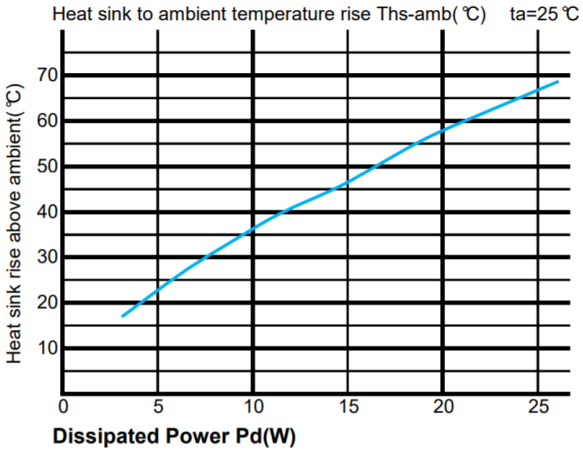
*Note: All Bases Have no Holes

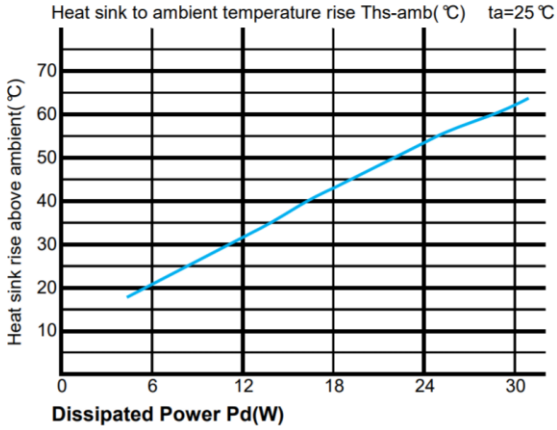
No.	Finish	Mounting Hole
A1		17.0 mm 2xM3 @ 180°
A2		19.0 mm 2xM3 @ 180°
A3		20.2 mm 2xM3 @ 180°
A4		21.7 mm 2xM3 @ 180°
A5		25.0 mm 2xM3 @ 180°
A6		26.8 mm 2xM3 @ 180°
A7		29.7 mm 2xM3 @ 180°
A8		31.4 mm 2xM3 @ 180°
A9		32.2 mm 2xM3 @ 180°
A10		35.0 mm 2xM3 @ 180°
A11		39.0 mm 3xM3 @ 120°
A12		42.0 mm 3xM3 @ 120°
A13		43.0 mm 4xM3 @ 90°
A14		58.4 mm 4xM3.5 @ 4-360°
A15		◎ Ø11.5 Through hole @ Ø78.0



Thermal Data PINLED-7830

Dissipated Power Pd(W)	Pd = Pe x (1-ηL)	Heat sink to ambient thermal resistance Rhs-amb (℃/W)	Heat sink to ambient temperature rise Ths-amb (℃)
	5	4.8	24
	10	3.6	36
	15	3.13	47
	20	2.95	59
	25	2.72	68



Thermal Data PINLED-7850

Dissipated Power Pd(W)	Pd = Pe x (1-ηL)	Heat sink to ambient thermal resistance Rhs-amb (℃/W)	Heat sink to ambient temperature rise Ths-amb (℃)
	6	3.5	21
	12	2.67	32
	18	2.44	44
	24	2.25	54
	32	1.97	63