## 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

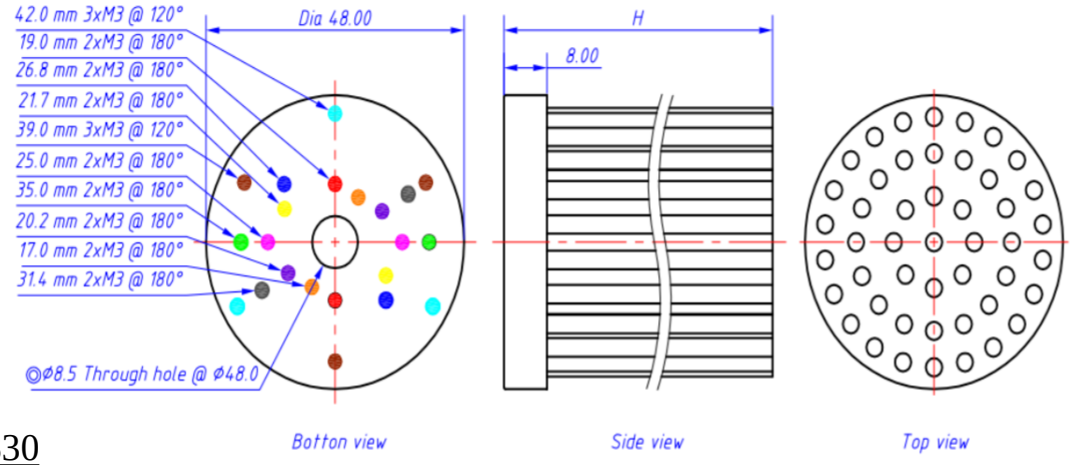
## PINLED Heat Sink

# 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

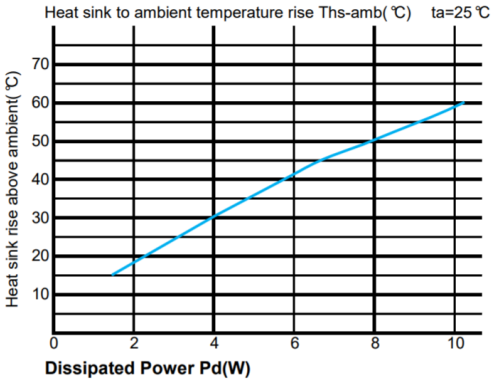
| No. | Finish | Mounting Hole |
|---|---|---|
| A1 | | 17.0 mm 2xM3 @ 180° |
| A2 | | 19.0 mm 2xM3 @ 180° |
| A3 | | 20.2 mm 2xM3 @ 180° |
| A4 | | 21.7 mm 2xM3 @ 180° |
| A5 | | 25.0 mm 2xM3 @ 180° |
| A6 | | 26.8 mm 2xM3 @ 180° |
| A7 | | 31.4 mm 2xM3 @ 180° |
| A8 | | 35.0 mm 2xM3 @ 180° |
| A9 | | 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 |
| | | |

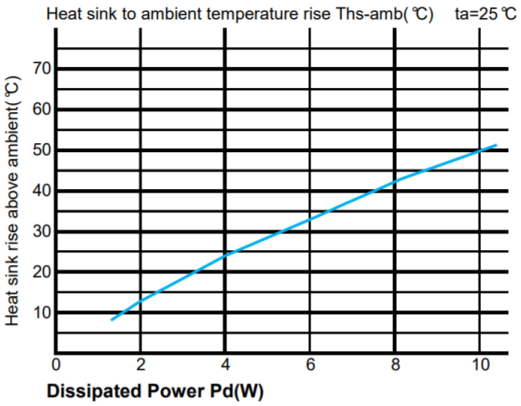
Dissipated Power Pd(W)




## 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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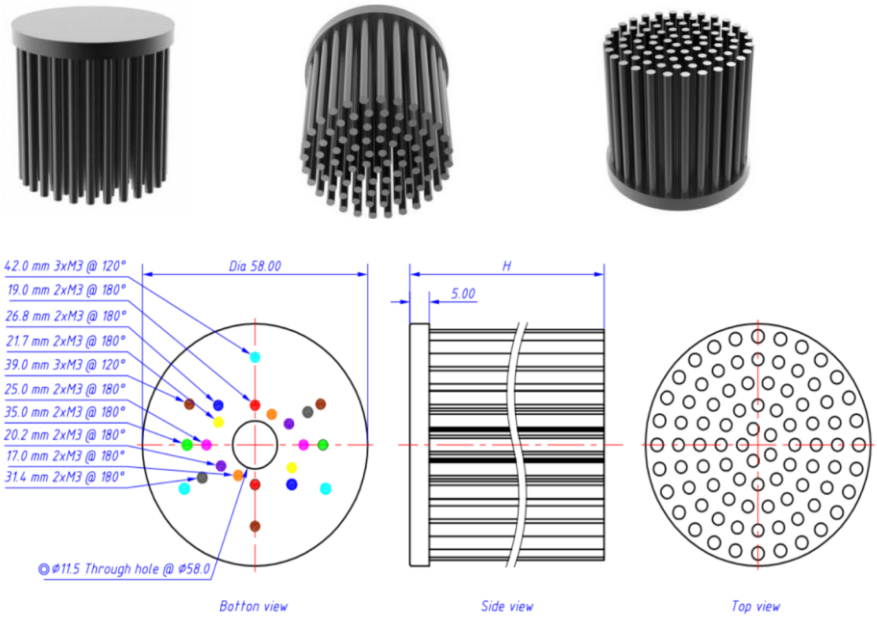
## PINLED Heat Sink

# 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 |

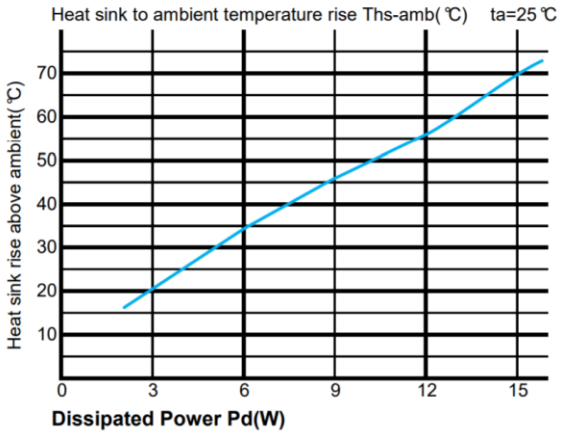
*Note: All Bases Have no Holes

| 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 |



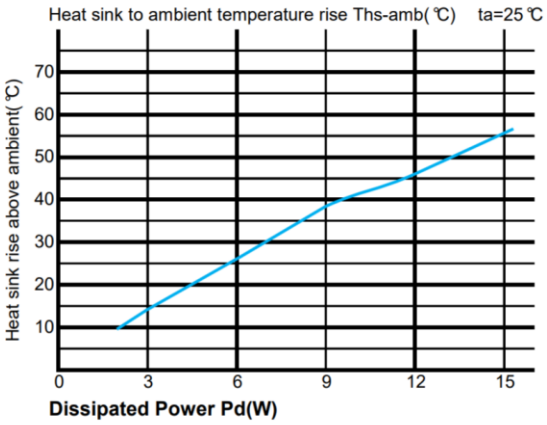

## Thermal Data PINLED-5830

| 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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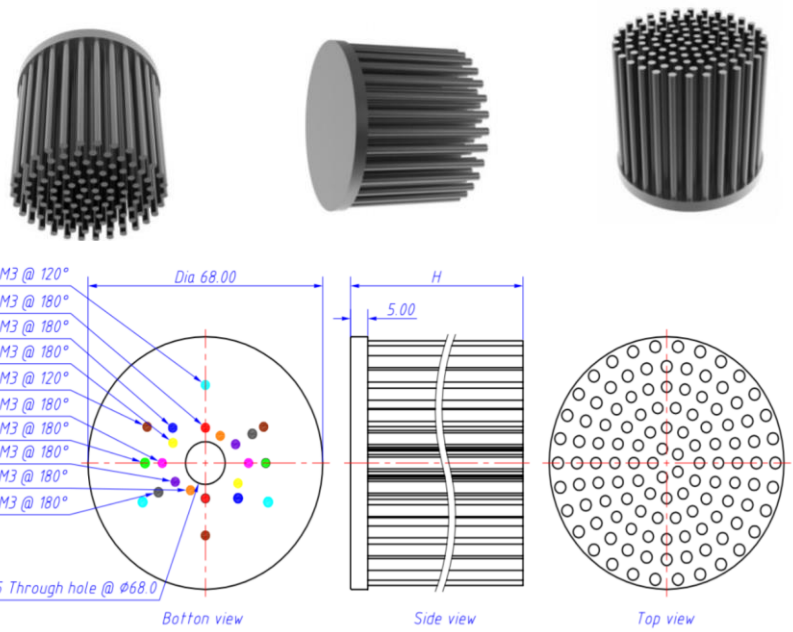
## PINLED Heat Sink

# 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 |

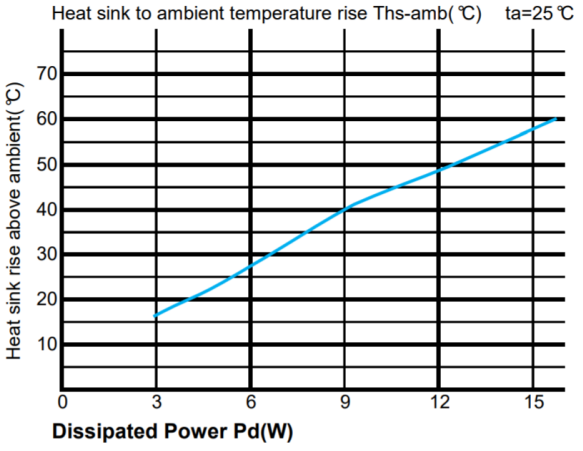
*Note: All Bases Have no Holes

| 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 |



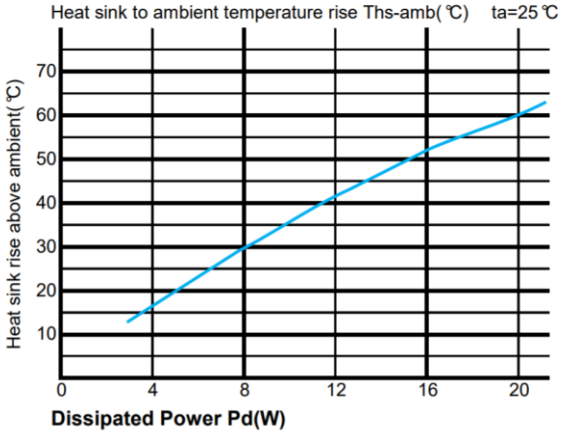

## Thermal Data PINLED-6830

| 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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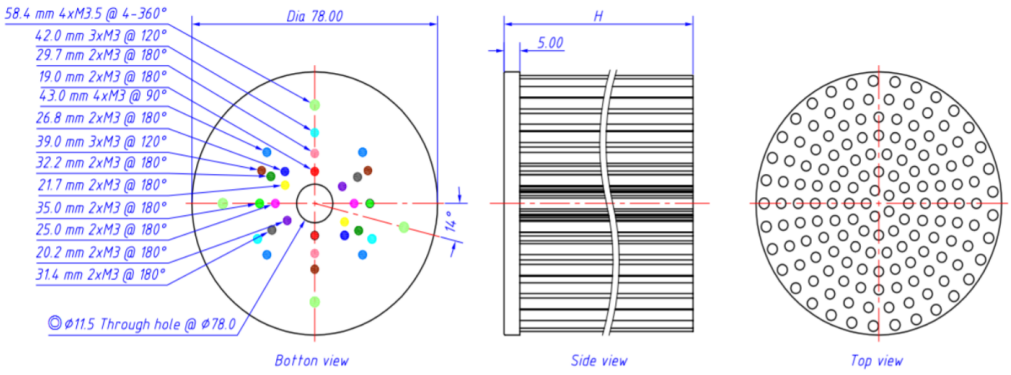
## PINLED Heat Sink

# 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 |

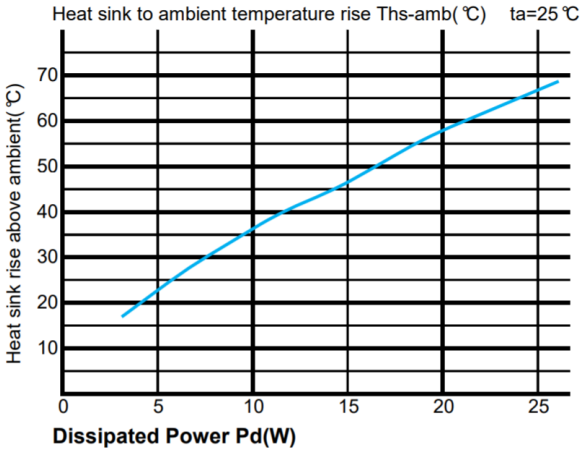
*Note: All Bases Have no Holes

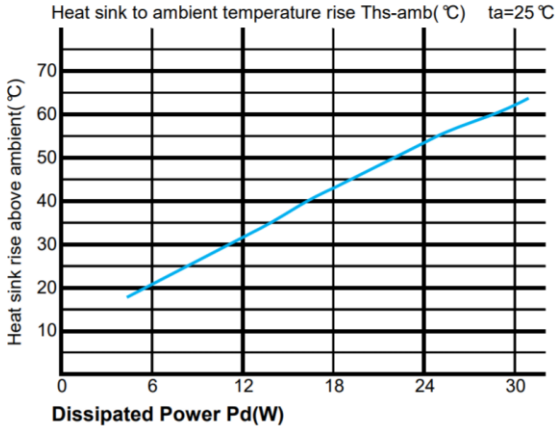
| No. | Finish | Mounting Hole |
|---|---|---|
| A1 | | 17.0 mm 2xM3 @ 180° |
| A2 | | 19.0 mm 2xM3 @ 180° |
| A3 | | 20.2 mm 2xM3 @ 180° |
| A4 | | 21.7 mm 2xM3 @ 180° |
| A5 | | 25.0 mm 2xM3 @ 180° |
| A6 | | 26.8 mm 2xM3 @ 180° |
| A7 | | 29.7 mm 2xM3 @ 180° |
| A8 | | 31.4 mm 2xM3 @ 180° |
| A9 | | 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 |
| | | | |