# HEATSINK KIT for DC/DC CONVERTERS

## FEATURES:

* Constructed of aluminum AL6063 for optimum heat transfer
* Designed specifically for DC/DC Converters and other baseplate packages
* Finished with black anodize plating
* Mounting hardware and thermal pad are available

| DC/DC PACKAGE | FIN STYLE | HEATSINK HEIGH (mm) | PART NUMBER | | | THERMAL RESISTANCE (C/W) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | HEATSINK | THERMAL PAD | MOUNTING HARDWARE | NATURAL CONVECTION | 100 LFM | 200 LFM | 300 LFM | 400 LFM |
| SB 1"x1" | Cross Cut | 10.0 | SBC100 (K-C087) | N/A ^7 | CLIP HC01 | 12.5 | -- | -- | -- | -- |
| B 2"x1" | Cross Cut | 10.0 | BC100 (K-C088) | N/A ^7 | CLIP HC01 | 10.2 | -- | -- | -- | -- |
| LB 2.05"x1.2" | Transverse | 12.7 | LBT127 (M-C655) | PL01 | K258W (NOTES 5) | 8.99 | 3.29 | 2.73 | 2.40 | 2.10 |
| Quarter Brick | Longitudinal | 12.7 | QBL127 (M-C448) | PQ01 | K308W (NOTES 5) | 5.61 | 4.01 | 3.39 | 2.86 | 2.49 |
| | Transverse | 21 | QBT210 (M-C421) | | | 4.78 | 2.44 | 2.06 | 1.76 | 1.58 |
| Half Brick | Longitudinal | 21 | HBL210 (M-C308) | PH01 | K310W (NOTES 5) | 3.9 | 1.74 | 1.33 | 1.12 | 0.97 |
| | Transverse | 12.7 | HBT127 (M-C091) | | | 4.7 | 2.89 | 2.3 | 1.88 | 1.59 |
| | Transverse | 25.4 | HBT254 (M-C092) | | | 3.0 | 1.44 | 1.17 | 1.04 | 0.95 |
| Full Brick | Longitudinal | 25.4 | FBL254 (M-B012) | PF01 | K320W (NOTES 5) | 2.4 | 1.76 | 1.17 | 1.0 | 0.83 |

**NOTES:**

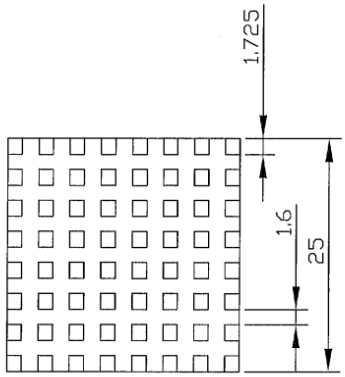
1. With threaded mounting hole
2. Example Part Numbers:
   QBL127: Quarter Brick Heatsink (12.7mm High), plate fin (longitudinal)
   FBL254PF01: Full Brick Heatsink (25.4mm High), plate fin (longitudinal) with thermal interface pad
   HBT127PH01K308W: Half Brick Heatsink (12.7mm High), plate fin (transverse) with thermal interface pad and 4 pieces of M3 x 8mm screws & spring washers
   HBL210K308W: Half Brick Heatsink (21.0mm High), plate fin (longitudinal) with 4 pieces of M3 x 8mm screws & spring washers
3. Thermal data provided are for reference only. Actual cooling performance may vary by application.
4. Specifcations are subject to change without notice.
5. K258W: Screw set M2.5*8mm screw & lock washer x 2pcs
   K308W : Screw set M3*8mm screw with spring washer x 4pcs
   K310W: Screw set M3*10mm screw with spring washer x 4pcs
   K320W : Screw set M3*20mm screw & spring washer x 4pcs
   K320N: Screw set M3*20mm screw & lock screw nut x 4pcs
6. **For volume orders, converters will be supplied with heat-sink already mounted. Separate heatsinks are only available for prototypes and small quantity orders.**
7. Applying proper thermal paste is recommended.

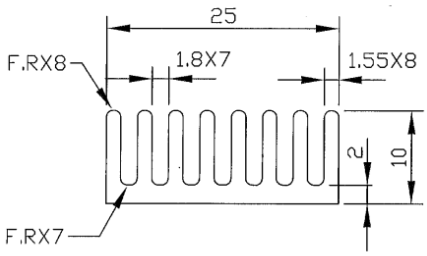
# SB 1”x1” CASE HEATSINK KIT

**Cross Cut Heat Sink: SBC100 (K-C087)**

All Dimensions in mm

Rca: 12.5°C/W (typ.), at natural convection

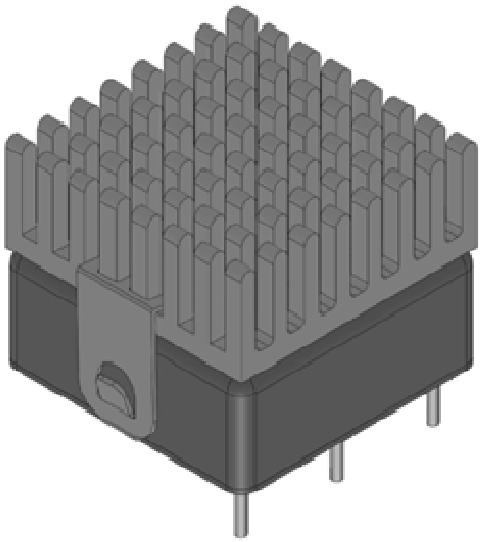



# Assembly:

Heat Sink: SBC100

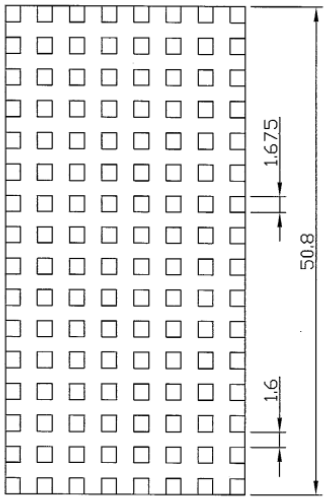
Clip: HC01

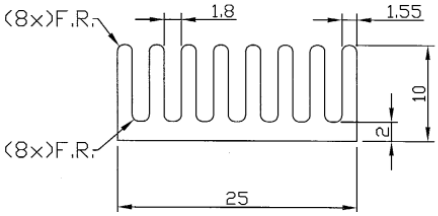


# B 2”x1” CASE HEATSINK KIT

**Cross Cut Heat Sink: BC100 (K-C088)**

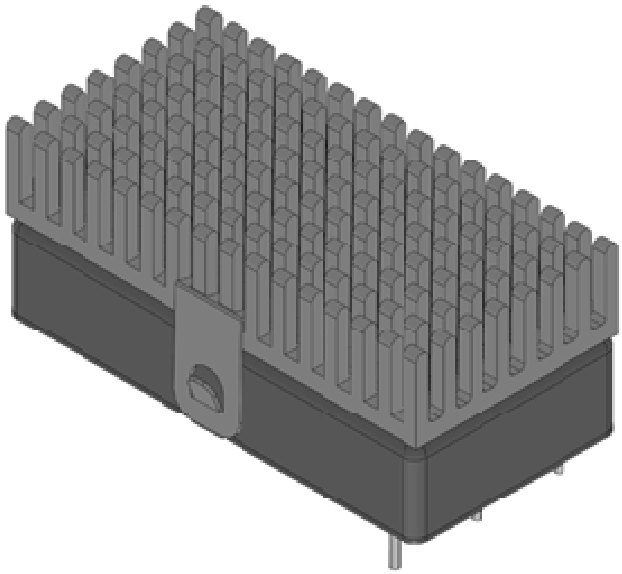
All Dimensions in mm
Rca: 10.2°C/W (typ.), at natural convection




# Assembly:

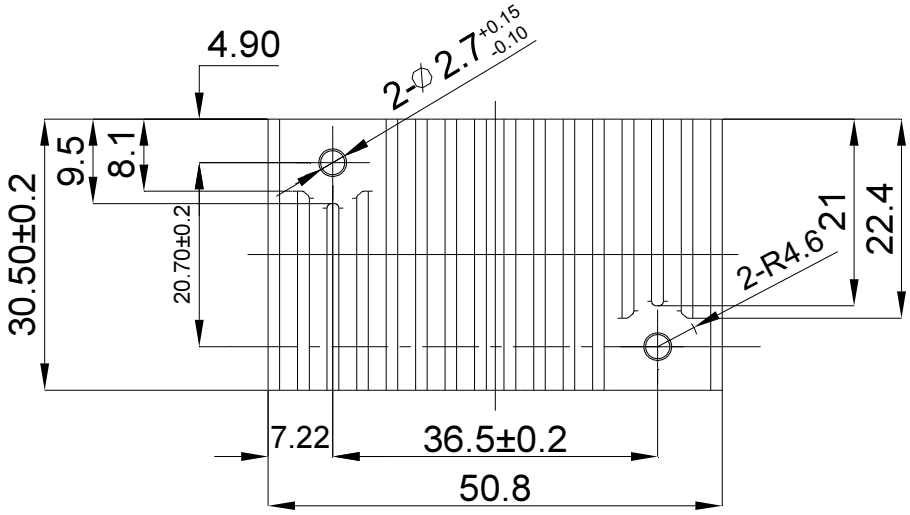
Heat Sink: BC100
Clip: HC01

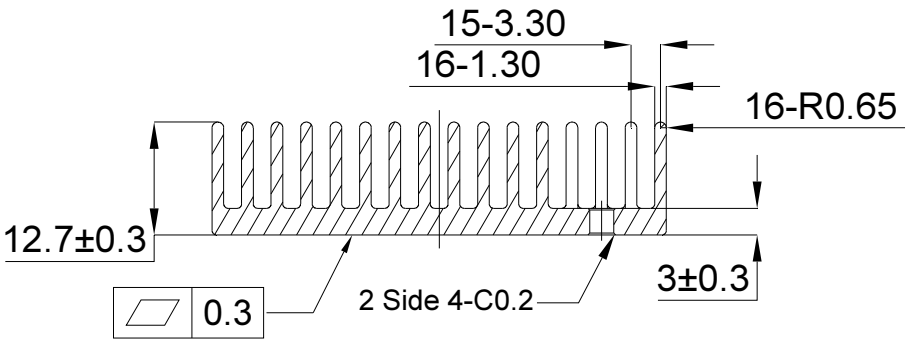


# LB 2.05”x1.2” CASE HEATSINK KIT

## Heat Sink: LBT127 (M-C655) Transverse Fins

All Dimensions in mm




Rca: 8.99°C/W (typ.), at natural convection
3.29°C/W (typ.), at 100LFM
2.73°C/W (typ.), at 200LFM
2.40°C/W (typ.), at 300LFM
2.10°C/W (typ.), at 400LFM

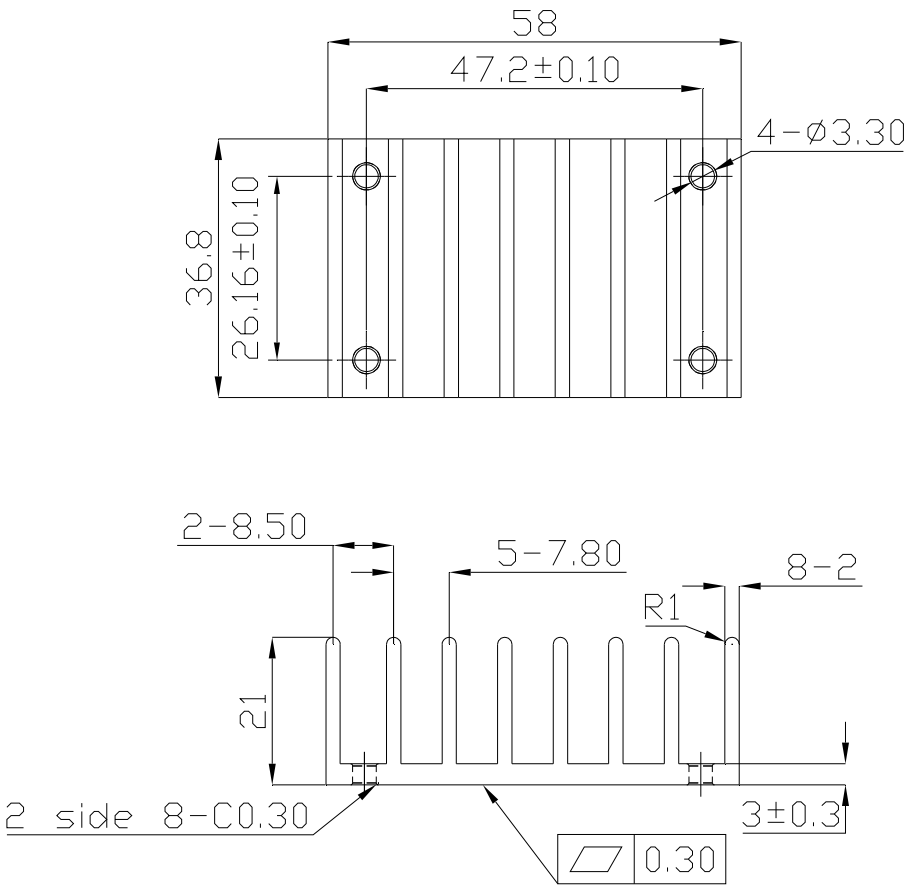
Thermal Pad: PL01 29.5*49.8*0.25mm

Screw Set: K258W M2.5*8mm+Lock Washer

# QB CASE HEATSINK KIT

## Heat Sink: QBT210 (M-C421) Transverse Fins

All Dimensions in mm



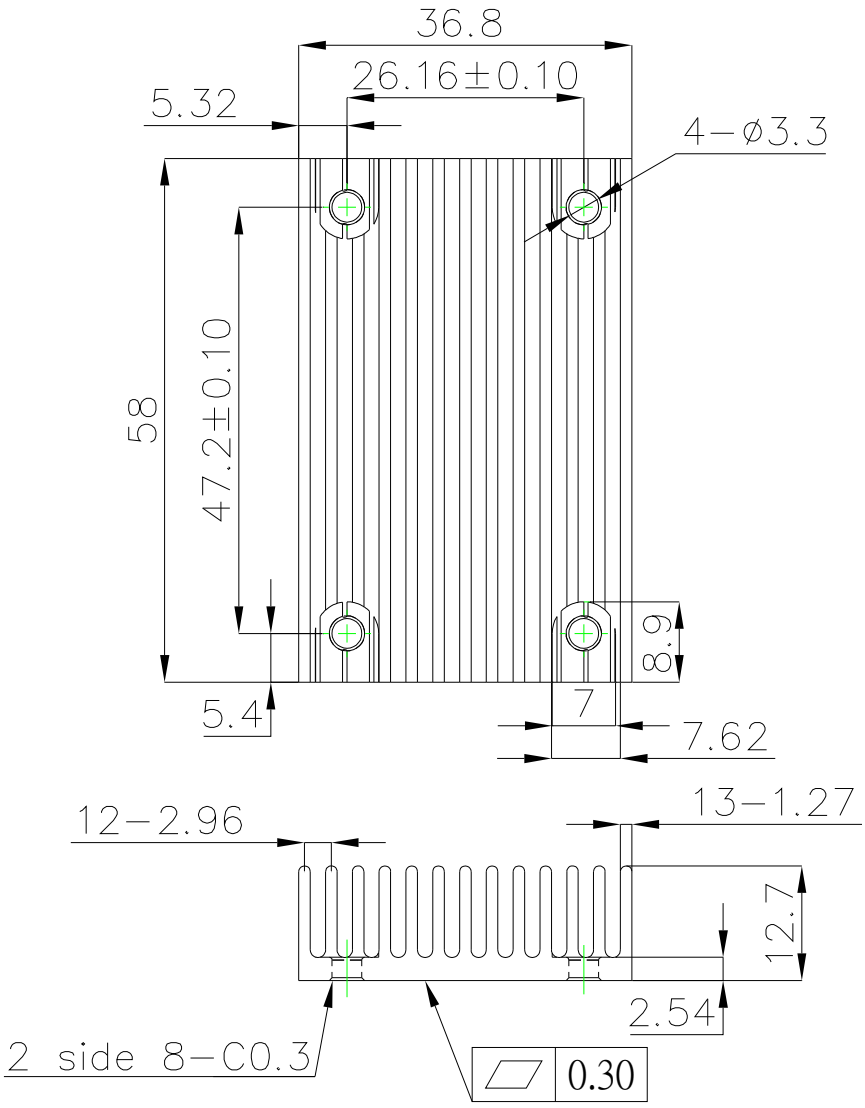

Rca: 4.78°C/W (typ.), at natural convection
2.44°C/W (typ.), at 100LFM
2.06°C/W (typ.), at 200LFM
1.76°C/W (typ.), at 300LFM
1.58°C/W (typ.), at 400LFM

Thermal Pad: PQ01 35.8*56.9*0.25 mm
Screw Set: K308W SMP+SW M3*8mm

# QB CASE HEATSINK KIT

## Heat Sink: QBL127 (M-C448) Longitudinal Fins

All Dimensions in mm



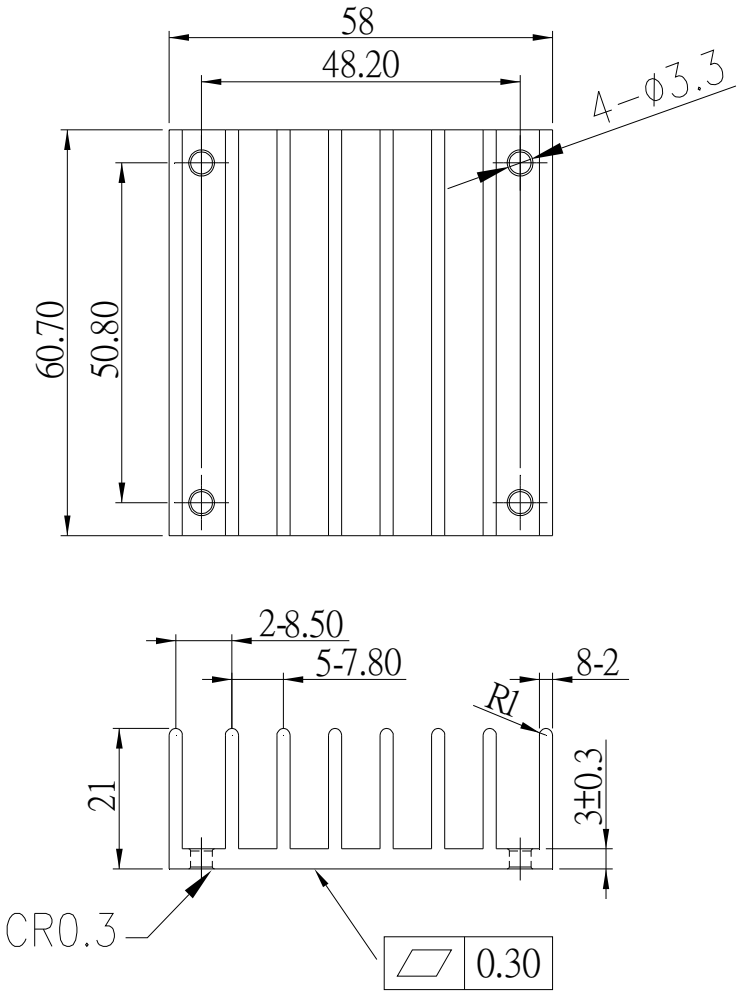

Rca: 5.61°C/W (typ.), at natural convection
4.01°C/W (typ.), at 100LFM
3.39°C/W (typ.), at 200LFM
2.86°C/W (typ.), at 300LFM
2.49°C/W (typ.), at 400LFM

Thermal Pad: PQ01 35.8*56.9*0.25 mm
Screw Set: K308W SMP+SW M3*8mm

# HB CASE HEATSINK

## Heat Sink: HBL210 (M-C308) Longitudinal Fins

All Dimensions in mm

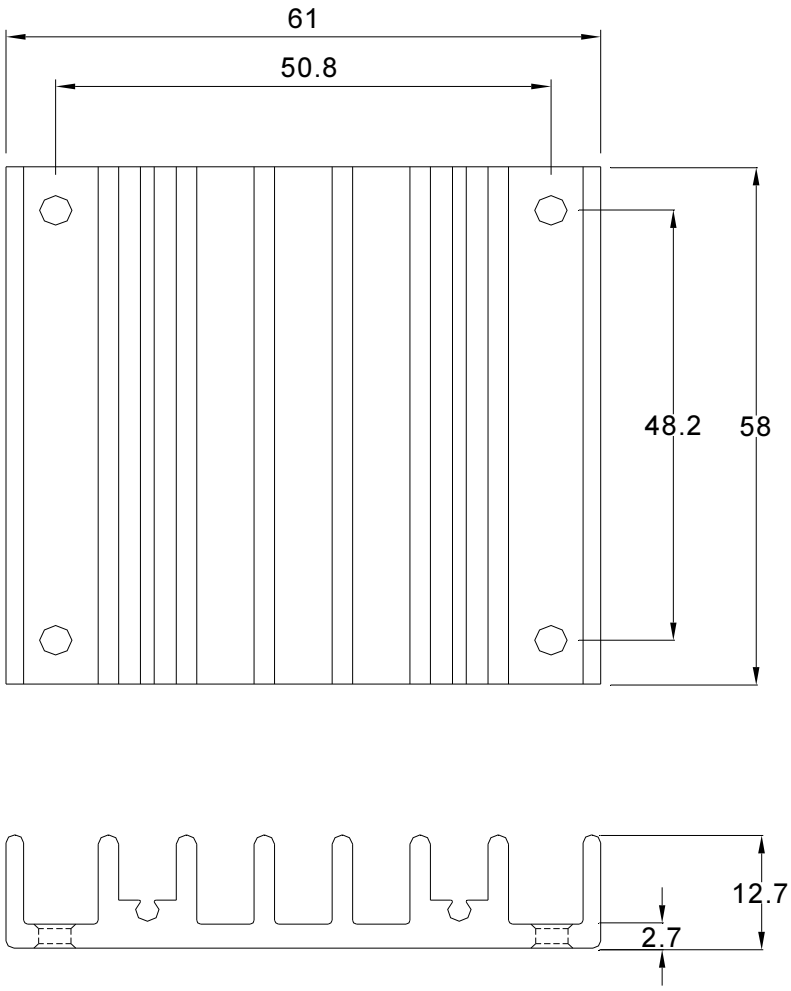



Rca: 3.9°C/W (typ.), at natural convection
1.74°C/W (typ.), at 100LFM
1.33°C/W (typ.), at 200LFM
1.12°C/W (typ.), at 300LFM
0.97 °C/W (typ.), at 400LFM

# HB CASE HEATSINK

## Heat Sink: HBT127 (M-C091) Transverse Fins

All Dimensions in mm



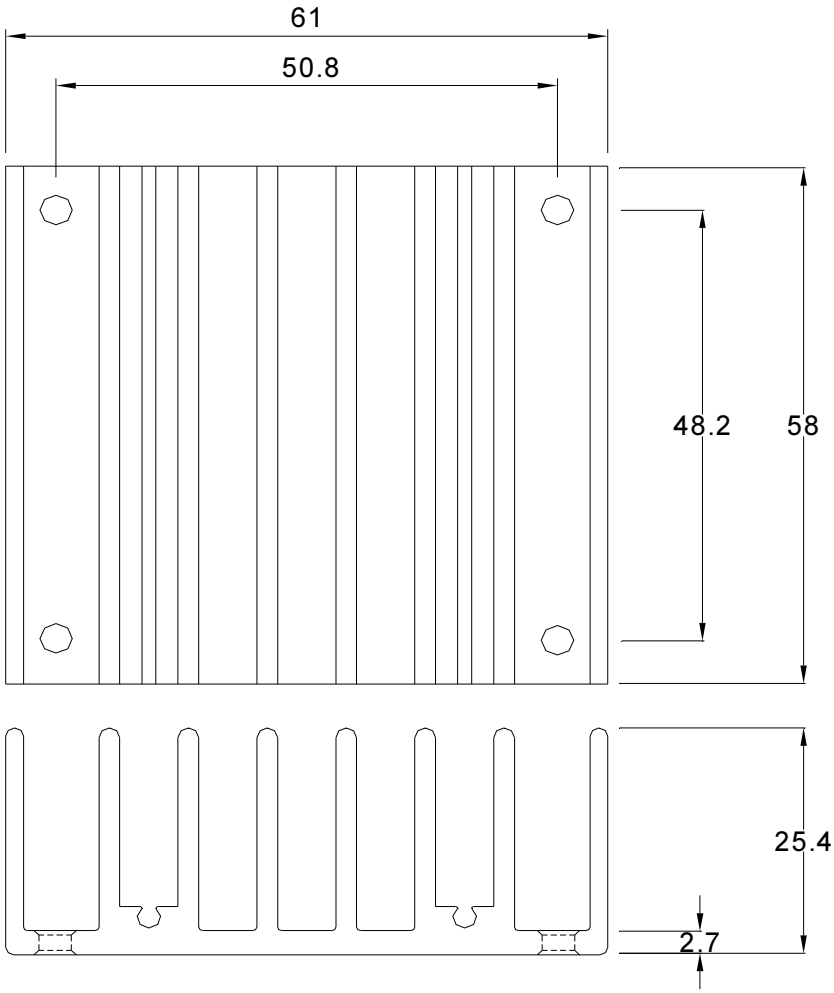

M-C091

Rca: 4.7°C/W (typ.), at natural convection
2.89°C/W (typ.), at 100LFM
2.30°C/W (typ.), at 200LFM
1.88°C/W (typ.), at 300LFM
1.59°C/W (typ.), at 400LFM

# HB CASE HEATSINK

## Heat Sink: HBT254 (M-C092) Transverse Fins

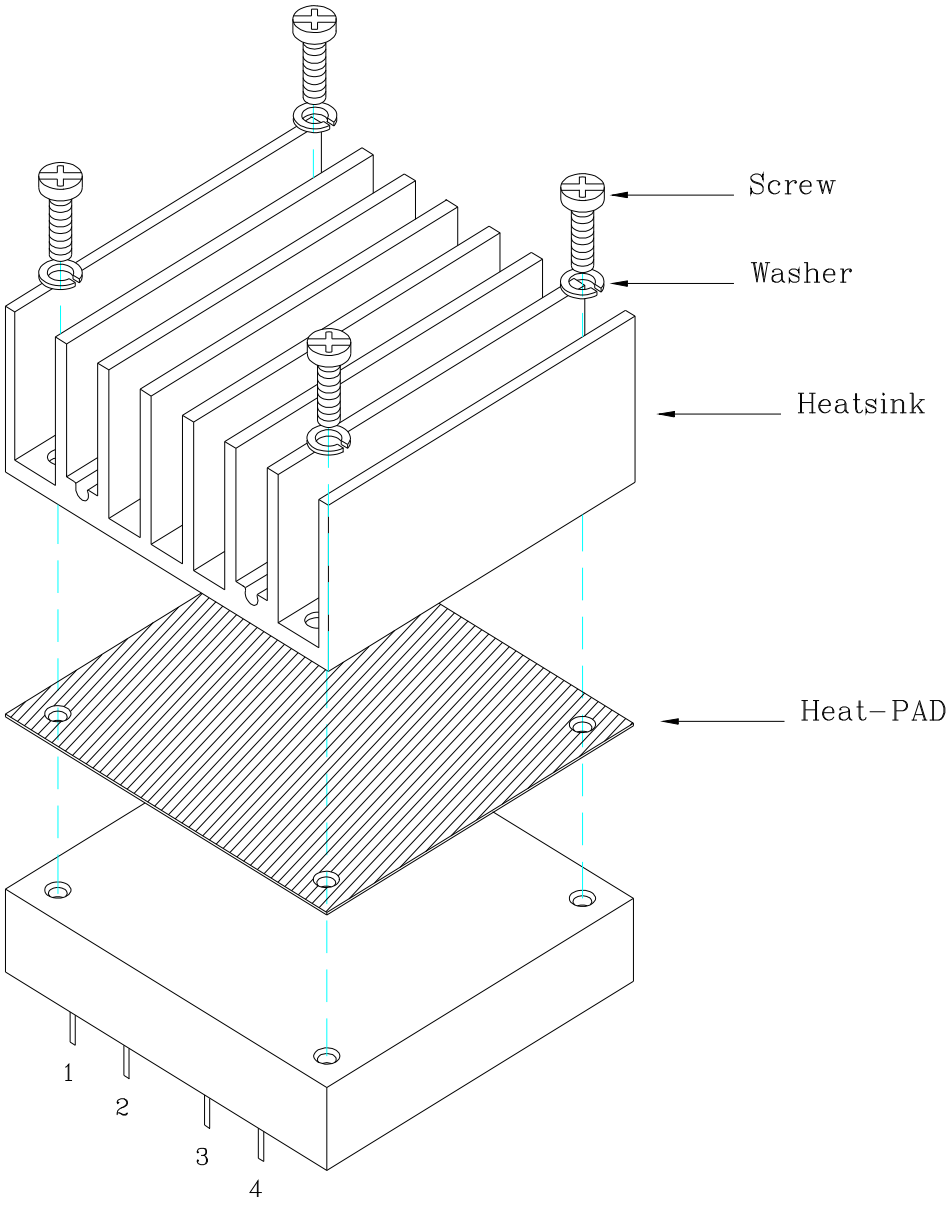
All Dimensions in mm




M-C092

Rca: 3°C/W (typ.), at natural convection
1.44°C/W (typ.), at 100LFM
1.17°C/W (typ.), at 200LFM
1.04°C/W (typ.), at 300LFM
0.95°C/W (typ.), at 400LFM

# HB CASE HEATSINK Assembly

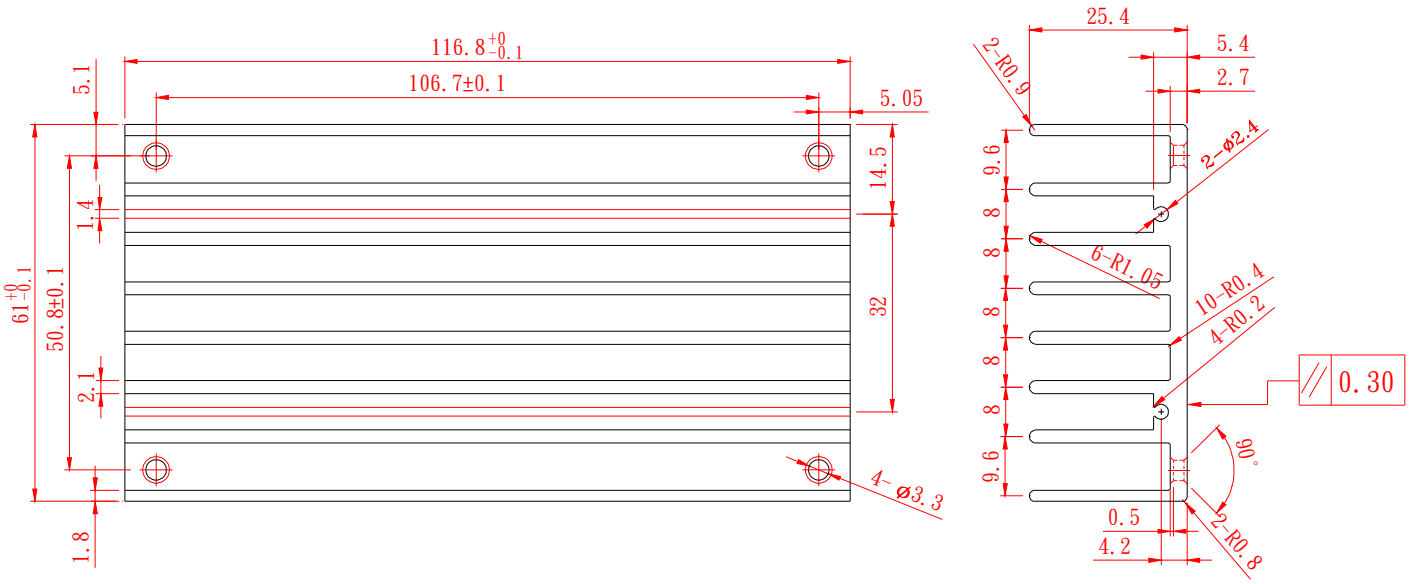



Heat Sink: HBL210 (M-C308)
HBT127 (M-C091)
HBT254 (M-C092)
Thermal Pad: PH01 56.9*60*0.25 mm
Screw Set: K308W SMP+SW M3*8mm

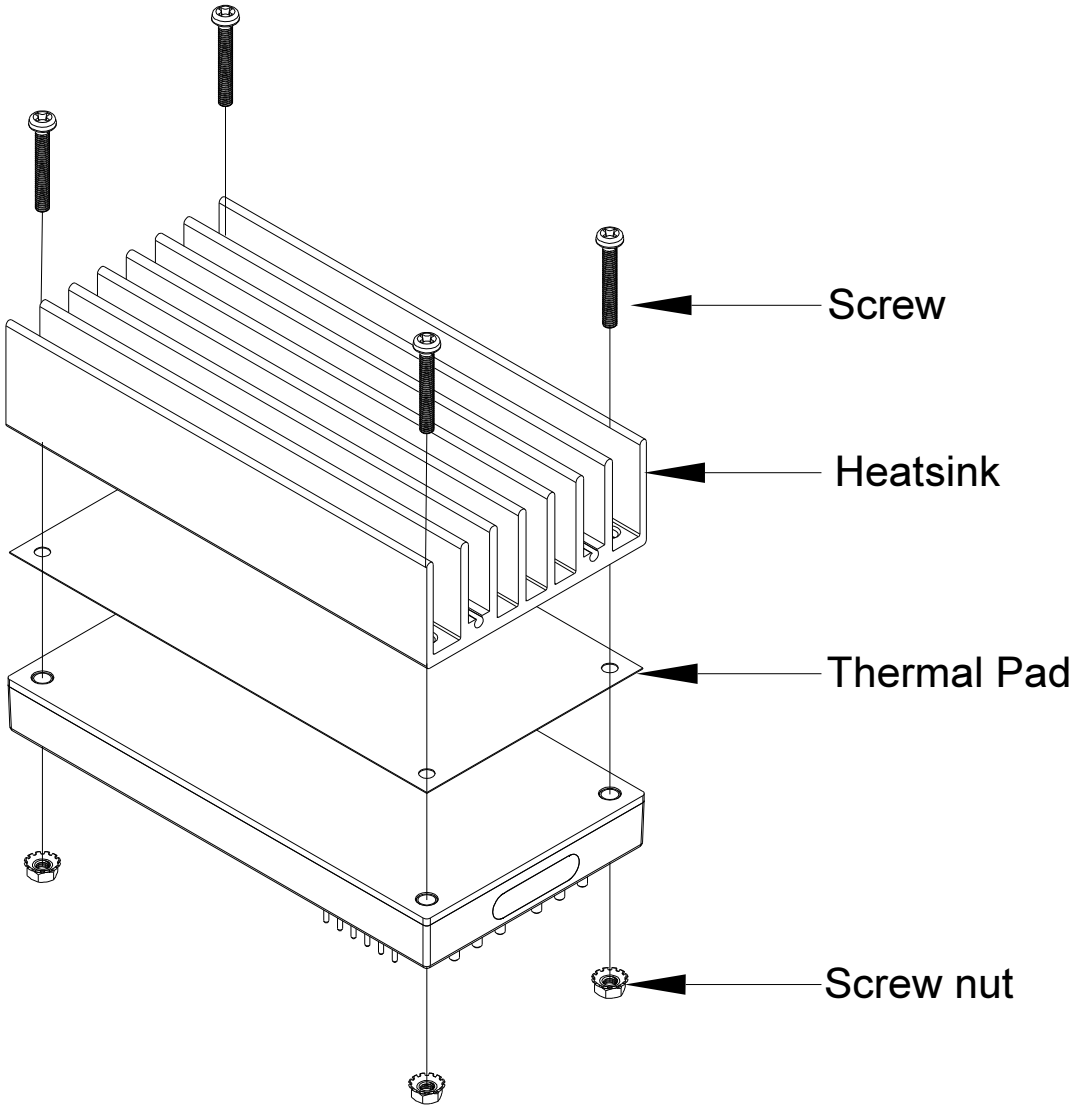
# FB CASE HEATSINK

**Heat Sink: FBL254 (M-B012) Longitudinal Fins**
**Clear Mounting Inserts Φ3.3mm Through**

All Dimensions in mm



# FB CASE HEATSINK Assembly




Heat Sink: FBL254 (M-B012)
Thermal Pad: PF01 60*115.8*0.25mm
Screw Set: K320N M3*20mm + Nut NH+WOM3*P0.5N